



Wayne County, North Carolina

Board of Commissioners

June 2, 2026
224 E. Walnut Street
Courthouse 4th Floor
Goldsboro, NC 27530

MINUTES

PLEASE SILENCE ALL CELLPHONES

8:00 A.M. AGENDA BRIEFING

During the scheduled briefing and prior to the regularly scheduled meeting, the Board of Commissioners held an advertised briefing session to discuss the items of business on the agenda.

The briefing began at 8:02 a.m. with Chairman Joe C. Daughtery reviewing the agenda.

Members Present: Chairman Joe C. Daughtery, Vice-Chairman Chris Gurley, Barbara Aycock, Tim Harrell, Joe Democko, and Antonio Williams.

Members Absent: Bevan Foster.

County Manager Chip Crumpler made two adjustments to the agenda. The adjustments made were as follows:

- Add the Motion to Approve Garver and The Wooten Company as on-call professional engineering services as #20 under the Consent Agenda.
- Add Presentation by County Manager Chip Crumpler on Funded versus Unfunded Mandates to New Business.

County Attorney Andrew Neal reviewed the Lease Agreement for Rosewood Elementary School between the County of Wayne, the Wayne County Board of Education and the Resolution by the County of Wayne Authorizing the Award of Opioid Settlements, the conveyance of 711 N. Virginia Street to the City of Goldsboro, and a 3-year lease with the North Carolina of Adult Correction for the space within the Courthouse.

Finance Director Angie Boswell reviewed the budget amendments and answered questions from the Board.

Planning Director Berry Gray reviewed the Final Plat for Bella Pointe Phase 1 and the Final Plat for Saddleback Farms Subdivision.

Human Resources Director Sara Larson reviewed the Resolution by the County of Wayne Approving Amendments to the Personnel Policy and answered questions from the Board. Vice-Chairman Chris Gurley asked that this item be removed from the Consent Agenda until further clarification is available.

Chairman Joe C. Daughtery recessed the Agenda Briefing until 9:00 a.m.

9:00 A.M. CALL TO ORDER - Chairman Joe C. Daughtery

The Wayne County Board of Commissioners met on Tuesday, June 2, 2026, at 9:02 a.m. in the Commissioners Meeting Room in the Wayne County Courthouse Annex, Goldsboro, North Carolina, after due notice thereof had been given.

Members present: Chairman Joe C. Daughtery, Vice-Chairman Chris Gurley, Barbara Aycock, Joe Democko, Tim Harrell, Antonio Williams, and Bevan Foster.

Members absent: None.

INVOCATION - Commissioner Tim Harrell

Commissioner Tim Harrell gave the invocation.

PLEDGE OF ALLEGIANCE - Commissioner Barbara Aycock

Commissioner Barbara Aycock led the Board of Commissioners in the Pledge of Allegiance to the Flag of the United States of America.

APPROVAL OF MINUTES

1. Motion to Approve the May 19, 2026, Minutes.
Upon motion of Commissioner Barbara Aycock, the Board of Commissioners unanimously approved the May 19, 2026, Minutes.

DISCUSSION/ADJUSTMENT OF AGENDA

2. Motion to Approve the Adjusted June 2, 2026, Agenda.
County Manager Chip Crumpler made three adjustments to the agenda. The adjustments made were as follows:
 - Add the Motion to Approve Garver and The Wooten Company as on-call professional engineering services as #20 under the Consent Agenda.
 - Add Presentation by County Manager Chip Crumpler on Funded versus Unfunded Mandates to New Business.
 - Remove the Motion to Adopt a Resolution by the County of Wayne Approving Amendments to the Personnel Policy.

Upon motion of Vice-Chairman Chris Gurley, the Board of Commissioners unanimously approved the Adjusted June 2, 2026, Agenda.

SPECIAL PRESENTATIONS

Time Limit of 6 to 10 Minutes

3. Wayne County's Celebration of America's 250th Birthday, presented by Chamber President Todd Walker.

Wayne County Chamber of Commerce President Todd Walker presented the Fireworks Over Wayne event on July 4, 2026, at the Wayne County Fairgrounds from 4 p.m. to 9 p.m. He provided a brief overview of the events for the day and encouraged everyone to attend.

PUBLIC HEARING(S)

4. Public Hearing at 9:15am to receive public comments on a request to rezone 18.61 acres from RA-20 and Community Shopping (CS) to Light Industry (LI) for property located in Brodgen Township on the west side of US Hwy 117 Alt, identified as Tax Parcel 2585662557.

Chairman Joe C. Daughtery opened the Public Hearing at 9:16 a.m.

Planning Director Berry Gray reviewed the request to rezone 18.61 acres from RA-20 and Community Shopping (CS) to Light Industry (LI) for property located in Brodgen Township on the west side of US Hwy 117 Alt, identified as Tax Parcel 2585662557.

No one presented themselves for comments.

Chairman Joe C. Daughtery closed the Public Hearing at 9:18 a.m.

Upon motion of Vice-Chairman Chris Gurley, the Board of Commissioners unanimously approved the Public Hearing at 9:15 a.m. to receive public comments on a request to rezone 18.61 acres from RA-20 and Community Shopping (CS) to Light Industry (LI) for property located in Brodgen Township on the west side of US Hwy 117 Alt, identified as Tax Parcel 2585662557, attached hereto as Attachment A.

5. Public Hearing at 9:30 a.m., in the Commissioners Meeting Room in the Wayne County Courthouse Annex, 224 E. Walnut Street, Goldsboro, North Carolina, to receive public comments on the County Manager's Recommended Budget for 2026-2027.

County Manager Chip Crumpler reviewed the County Manager's recommended 2026-2027 Budget.

At 9:33 a.m., Chairman Joe C. Daughtery opened the Public Hearing to receive public comments on the County Manager's Recommended Budget for 2026-2027.

Mr. Carl Martin of 801 S. Baines Place, Goldsboro, discussed the Wayne County Ordinance regarding the Wayne Executive Jetport and the Jetport Budget.

At 9:38 a.m., Chairman Joe C. Daughtery closed the Public Hearing.

6. Public Hearing at 9:30 a.m. in the Commissioners' Meeting Room in the Wayne County Courthouse Annex, 224 E. Walnut Street, Goldsboro, North Carolina, to receive public comments regarding economic incentives for Project Pioneer.

The Board of Commissioners will consider an incentive grant of up to 30% of new real and personal property tax revenues payable over ten (10) years in exchange for the company's commitment to invest up to \$756,000,000 in capital improvements and create up to 9 jobs in Wayne County.

At 9:39 a.m., Chairman Joe C. Daughtery opened the Public Hearing to receive public comments regarding economic incentives for Project Pioneer. The Board of Commissioners will consider an incentive grant of up to 30% of new real and personal property tax revenues payable over ten (10) years in exchange for the company's commitment to invest up to \$756,000,000 in capital improvements and create up to 9 jobs in Wayne County.

North Carolina Global Transpark Economic Development Region President Mark Pope reviewed Project Pioneer and explained that the final details have not yet been approved, but the incentive agreement could be approved in advance. Commissioner Williams clarified that the 9 included jobs are strictly hired by the company. Vice-Chairman Chris Gurley asked how long the construction would take. Mr. Pope stated that it would be approximately 24 months and that the announcement would hopefully come in the fall. Commissioner Bevan Foster asked whether the 30% would be based on the real and personal property value at the end of the project. County Attorney Andrew Neal stated that it would be.

At 9:47 a.m., Chairman Joe C. Daughtery closed the public hearing.

Upon motion of Vice- Chairman Chris Gurley, the Board of Commissioners approved the incentive grant of up to 30% of new real and personal property tax revenues payable over ten (10) years in exchange for the company's commitment to invest up to \$756,000,000 in capital improvements and create up to 9 jobs in Wayne County, attached hereto as Attachment B, with a vote of 6 to 1 with Commissioner Foster voting against.

APPOINTMENT COMMITTEE

7. Motion to Reappoint Chad Coker, Paul King, and Mike Woodard to the Wayne Executive Jetport Advisory Committee.

Upon motion of Commissioner Joe Democko, the Board of Commissioners approved the reappointment of Chad Coker, Paul King, and Mike Woodard to the Wayne Executive Jetport Advisory Committee with a vote of 6 to 1, with Commissioner Foster voting against.

UNFINISHED BUSINESS

8. Motion to approve the Lease Agreement for Rosewood Elementary School between the County of Wayne and the Wayne County Board of Education.

County Attorney Andrew Neal reviewed the Lease Agreement for Rosewood Elementary School between the County of Wayne and the Wayne County Board of Education.

Upon motion of Commissioner Tim Harrell, the Board of Commissioners unanimously approved the Lease Agreement for Rosewood Elementary School between the County of Wayne and the Wayne County Board of Education, attached hereto as Attachment C.

CONSENT AGENDA

Upon motion of Vice-Chairman Chris Gurley, the Board of Commissioners approved the Consent Agenda by a vote of 6 to 1 with Commissioner Bevan Foster voting against.

9. Budget Amendments
#452-Sheriff's Office/#453-Finance/#457-HD/#458-Facilities/#462-Finance/#472-Finance/#474-Finance
10. Motion to Approve the Final Plat for Bella Pointe Phase 1.
Attached hereto as Attachment D.
11. Motion to Approve the Final Plat for Saddleback Farms Subdivision.
Attached hereto as Attachment E.
12. Motion to Adopt a Resolution by the County of Wayne Authorizing the Award of Opioid Settlements.
Attached hereto as Attachment F.
13. Motion to approve the conveyance of 711 N. Virginia Street (PIN: 2599895554) to the City of Goldsboro, as requested by the City of Goldsboro.
Attached hereto as Attachment G.
14. Motion to Approve Resolution #2026-14: A Resolution Allowing the use of Pyrotechnics for the Town of Pikeville.
Attached hereto as Attachment H.
15. Motion to Approve Resolution #2026-15: A Resolution Allowing the Use of Pyrotechnics for the Town of Seven Springs.
Attached hereto as Attachment I.
16. Motion to approve a 3-year lease with the North Carolina Department of Adult Correction for space within the Courthouse, as recommended by the Facilities Committee.
Attached hereto as Attachment J.
17. Motion to Obtain Pricing for Pavement, Signage, Lighting, and Landscape for the Health and Human Services Entrance, as recommended by the Facilities Committee.
18. Motion to Allow Wayne County Structured Day to use Classroom Space at School Street School, as recommended by the Facilities Committee.

19. Motion to Approve Garver and The Wooten Company as On-Call Professional Engineering Services.
Attached hereto as Attachment K.

NEW BUSINESS

20. Presentation by County Manager Chip Crumpler on Unfunded versus Funded Mandates.
County Manager Chip Crumpler provided an overview of state-mandated services that Wayne County has to provide, attached hereto as Attachment L.

PUBLIC COMMENTS

Each Speaker will have a time limit of four (4) minutes.

No one presented themselves for public comments.

COUNTY MANAGER'S REPORT

County Manager Chip Crumpler congratulated the Rosewood High School Varsity Baseball Team on their 2A State Championship Win.

BOARD OF COMMISSIONERS COMMITTEE REPORTS

Commissioner Antonio Williams reminded everyone of National Caribbean American Month and congratulated his nephew on his upcoming graduation from Goldsboro High School.

Commissioner Joe Democko congratulated the Wayne Country Day High School Golf team on their championship win as well.

Commissioner Barbara Aycock congratulated the Rosewood Baseball team on their State championship win.

Commissioner Bevan Foster had no comment.

Commissioner Tim Harrell attended the WAGES meeting and discussed May as Older Americans Month and the importance of programs provided for older adults. He provided a brief update on the last Facilities Committee meeting and offered condolences to Coach Charles Lane's family.

Vice-Chairman Chris Gurley discussed the Goldsboro TAC and the Highway 70 Corridor meetings, congratulated the Rosewood High School Varsity Baseball Team on their championship, congratulated his daughter on her upcoming graduation, and congratulated Deputy Clerk Kayla Whitley on her new clerk position.

Chairman Joe C. Daughtery had no comment.

CLOSED SESSION

At 8:37 a.m., upon motion of Commissioner Barbara Aycock, the Board of Commissioners unanimously declared itself in closed session to discuss matters related to the location or expansion of industries within the County and to discuss matters related to military installation realignment and to consult with an attorney employed or retained by the public body in order to preserve the attorney-client privilege.

Members present: Chairman Joe C. Daughtery, Vice-Chairman Chris Gurley, Barbara

Aycock, Tim Harrell, Joe Democko, and Antonio Williams.

Members absent: Bevan Foster.

At 10:15 a.m., upon motion of Vice-Chairman Chris Gurley, the Board of Commissioners unanimously declared itself in closed session to instruct the public body staff regarding the acquisition of property within the County, to discuss matters related to the location or expansion of industries within the County, for the protection of confidential competitive healthcare information under G.S. 131E-97.3, and to consult with an attorney employed or retained by the public body to preserve attorney-client privilege.

Members present: Chairman Joe C. Daughtery, Vice-Chairman Chris Gurley, Barbara Aycock, Tim Harrell, Joe Democko, Bevan Foster, and Antonio Williams.

Members absent: None.

RECESSED

At 9:20 a.m., Chairman Joe C. Daughtery recessed the meeting until 9:30 a.m.

At 11:58 a.m., Chairman Joe C. Daughtery recessed the meeting.

At 2:54 p.m., Chairman Joe C. Daughtery recessed the meeting.

RECONVENED

At 9:30 a.m., Chairman Joe C. Daughtery reconvened the meeting.

At 12:38 p.m., Chairman Joe C. Daughtery reconvened the meeting.

At 3:03 p.m., Chairman Joe C. Daughtery reconvened the meeting.

BUDGET WORK SESSION

The Board reviewed the County Manager's recommended budget for Fiscal Year 2026-2027, with changes made following the budget work session. The changes made following the commissioners' work session were as follows:

- Increase the restricted school sales tax fund by \$500,000 for capital improvements.
- Increase T Hangar monthly rent by \$30.
- Approved \$5,000 each for WAGES Senior Companion Program and WAGES Retired and Senior Volunteer Program.

Chairman Joe C. Daughtery asked each commissioner if there was a specific item or detail they would like to discuss. Commissioner Barbara Aycock stated she would like to discuss the increase in Library salaries. Commissioner Tim Harrell stated he would like to discuss school funding. Vice-Chairman Chris Gurley stated that he would like to discuss the fee increases across different departments.

Chairman Joe C. Daughtery stated that the Commissioners will be more restricted in taxes and revenues and suggested increasing fees for departments to help supplement departmental costs. Vice-Chairman Chris Gurley discussed the Farmer's market fees, Environmental Health fees, Solar Facility fees, and T-Hangar rental fees

and asked how the fee was set. Chairman Joe C. Daughtery stated Wayne Executive Jetport Director Gene Dawson completed a market analysis of other hangar rentals in the area. Commissioner Bevan Foster expressed his frustration that the rental fees for the new and old hangars are the same. Vice-Chairman Chris Gurley stated that rental fees should be at least \$500-\$600 per month. Chairman Joe C. Daughtery stated the hangar fees were increased last year but suggested increasing the rate by \$30 per month for each T-hangar and reviewing the rates for next year.

Commissioner Antonio Williams discussed the pyrotechnic fees and suggested an increase in fees. Chairman Joe C. Daughtery stated that the individual departments can review their fees and can make adjustments throughout the year.

At 1:11 p.m., Commissioner Joe Democko left the meeting.

At 1:15 p.m., Commissioner Joe Democko joined the meeting.

Chairman Joe C. Daughtery reviewed the individual departmental budgets with the Board. He asked Finance Director Angie Boswell to review the position in the Finance department to ensure they were all needed. Commissioner Barbara Aycock discussed the salary increase in the County Attorney's budget. County Manager Chip Crumpler stated that it was for the addition of a Staff Attorney position.

At 1:18 p.m., Commissioner Bevan Foster left the meeting.

At 1:20 p.m., Commissioner Bevan Foster joined the meeting.

Chairman Joe C. Daughtery asked for an explanation about Central Services. Finance Director Angie Boswell explained that it is central housing for items for all departments and two part-time positions.

Chairman Joe C. Daughtery asked about the significant increase in the Information Technology budget this year. County Manager Chip Crumpler stated that it was due to equipment nearing the end of its life and needing replacement, and that it should have been in the Capital Improvement Plan but was not.

Chairman Joe C. Daughtery discussed the Detention Center budget and asked about the reduction in the number of jailers. He stated that when the Board built the new jail facility, they were under the impression that it would reduce the number of positions needed, and that is not reflected in the budget. He questioned the decrease in salaries and wages for School Resource Officers. Mrs. Boswell stated that this was budgeted in error last year.

Chairman Joe C. Daughtery discussed fees for the Day Reporting Center, 911 (unrestricted), and Inspections. The Board discussed the increase in EMS service and maintenance contracts. Mrs. Boswell said this was to cover the cost of the defibrillator service fees.

Chairman Joe C. Daughtery discussed the county match for the ROAP Grant that Goldsboro Wayne Transportation Authority receives.

Chairman Joe C. Daughtery discussed the rental amount that the Maxwell Center is charging for Cooperative Extension, Soil and Water, and Farm Services Agency. He asked that the amount be reviewed and adjusted to the current market rate. Mrs. Boswell explained that there is a rental agreement with USDA and that the Maxwell Center also charges the general fund for Cooperative Extension and Soil and Water rental space. Commissioner Barbara Aycock discussed the salary increase for the Maxwell Center. Mrs. Boswell explained that this was the first time that they had been in the salary study and were being compensated.

At 2:00 p.m., Commissioner Tim Harrell left the meeting.

At 2:03 p.m., Commissioner Tim Harrell joined the meeting.

Chairman Joe C. Daughtery discussed the funding for WAGES. Commissioner Bevan Foster asked whether there was a reason for the lack of funding for the Senior Companion program and the Retired & Senior Volunteer Program. Mrs. Boswell said this was the first year they had requested funds and that it was up to the Board whether to grant the funding. Commissioner Foster talked highly of the Senior Companion program and stated that it makes a big difference for families in need.

Upon motion of Commissioner Bevan Foster, the Board of Commissioners unanimously approved funding of \$5,000 for the WAGES Senior Companion Program and \$5,000 for the WAGES Retired & Senior Volunteer Program.

Chairman Joe C. Daughtery reviewed the Library's total budget and stated that libraries are a great asset but expensive to operate. Commissioner Barbara Aycock discussed the increase in salaries. Mrs. Boswell explained that the full-time staff was included in the salary study for the first time, and that the regular part-time and part-time staff salaries were being adjusted to match the full-time staff salaries. Assistant County Manager Ginger Moore explained that the part-time staff were highly educated teachers who worked at the Learning Studio during the summer to help tutor children, and stated that the Library Foundation was no longer paying for the program and that the Library had to absorb the cost.

The Board discussed the Sales Tax Fund, the Enterprise Fund, and the Capital Improvement Fund.

Commissioner Tim Harrell discussed the Wayne County Public Schools budget request for \$750,000 to help with the shortfall in the Exceptional Children's department. He proposed a one-time additional appropriation of \$500,000 for this year only from the restricted school sales tax fund, allowing the School System to use its current funds for the Exceptional Children's program. The Board discussed the request and agreed to include it in the final budget.

Commissioner Barbara Aycock asked Finance Director Angie Boswell whether the Services on Aging budget was balanced, given that expenses exceeded revenue. Mrs. Boswell stated that she has several divisions, and the revenues and expenses are mixed.

Chairman Joe C. Daughtery discussed Wayne Community College and stated he had

a request to increase the funding by \$400,000. He discussed it with Finance Director Angie Boswell and County Manager Chip Crumpler, and they couldn't find the additional revenue to grant the request. He stated their original request would remain and praised them for a job well done on their campus.

Chairman Joe C. Daughtery discussed the Department of Social Services and their large budget. He mentioned the federal government's unfunded mandates, the increased workload, and additional staffing needs.

Chairman Joe C. Daughtery discussed the 911 restricted funds. Commissioner Tim Harrell inquired about the \$109,000 increase. Mrs. Boswell stated that it was leases and subscription-based IT agreements (SBITAS).

Chairman Joe C. Daughtery discussed the Wayne Executive Jetport and stated that there are no transfers from the general fund in this budget. He stated this was the first time this had ever happened. Commissioner Tim Harrell asked about the decrease in AVGas budget. Chairman Daughtery stated that the Fairwinds Flight School has closed and that there is currently no need for fuel. Commissioner Bevan Foster asked about the fund balance appropriations. Mrs. Boswell stated that this was due to reimbursements from grant funds and was temporary funding. She explained that part of the appropriations was the county match from the grant funding requests. Commissioner Bevan Foster expressed his frustration at appropriating millions of dollars for the Wayne Executive Jetport without generating additional revenue, stating that the money is being spent without being accounted for. Chairman Joe C. Daughtery stated that numerous improvements were completed with grant funding and requested a balance sheet for the past 10 years.

At 3:26 p.m., Commissioner Joe Democko left the meeting.

At 3:28 p.m., Commissioner Joe Democko joined the meeting.

Chairman Joe C. Daughtery would like to reinstate naming rights for the facility spaces at the Maxwell Center to generate additional revenue. Vice-Chairman Chris Gurley asked who established the price. Chairman Daughtery stated that Maxwell Center Director James Wade would prepare the figures and bring them to the Board for approval.

The Board reviewed the Capital Outlay. Finance Director Angie Boswell stated that this is the Capital Improvement Plan and that it includes purchases over \$5,000, and reviewed the items currently in the plan.

Chairman Joe C. Daughtery discussed hospitalization and asked where the County stands on budgeted versus expenses. Mrs. Boswell stated that the County is \$230,000 to the good, but they have not received claims payment for June.

Upon motion of Commissioner Joe Democko, the Board of Commissioners unanimously approved the Budget as amended. The amendments were as follows:

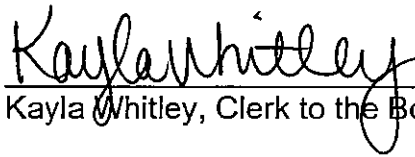
- Increase the restricted school sales tax fund by \$500,000 for capital improvements.

- Increase T Hangar monthly rent by \$30.
- Approved \$5,000 each for WAGES Senior Companion Program and WAGES Retired and Senior Volunteer Program.

Commissioner Tim Harrell thanked the budget team for their hard work in preparing the budget. Chairman Joe C. Daughtery stated that the budget team had done a remarkable job with this budget.

ADJOURNMENT

At 03:53 p.m., Chairman Joe C. Daughtery adjourned the meeting of the Wayne County Board of Commissioners.


Kayla Whitley, Clerk to the Board

MEMORANDUM

To: Wayne County Board of Commissioners

From: Berry Gray, Planning Director

Date: April 15, 2026

Re: Zoning Map Change, Z-26-01

Item: Rezoning from Residential Agricultural-20 (RA-20) and Community Shopping (CS) to Light Industry (LI)
Size: 18.61 acres
Parcel ID# 2585662557
Property Owner/Applicant: Croft Properties LLC/William Best
Location: S US 117 Alt, Brogden Township

The applicant is currently looking to rezone property on the west side of US Hwy 117 Alt approximately 3/4 mile north of O'Berry Road from Residential Agricultural-20 (RA-20) and Community Shopping (CS) to Light Industry (LI).

The property is currently used for a grandfathered machine and fabrication shop. Part of the property was rezoned to Light Industry in 2023. Adjacent zoning includes Heavy Industry (HI) to the north of the property and used for an auto salvage lot. The property to the south is zoned RA-20 and used for agricultural purposes. The LI District would allow for a variety of light industrial uses including the existing use of the property. The subject property is not located within a Flood Hazard Area. The Wayne County Growth Strategies Map identifies this property as being within a Community Growth area.

The proposed rezoning is consistent with the following Wayne County Comprehensive Plan policies:

Policy 2.1: NEW AND EXPANDING BUSINESSES AND INDUSTRIES should be especially encouraged that: 1) diversify the local economy, 2) train and employ a more highly skilled work force and 3) increase area resident's incomes.

Policy 2.5: Appropriate OPPORTUNITY SITES for new business and industrial enterprises should be identified and protected from incompatible development. Such sites should be based upon suitability factors such as transportation access, availability of utilities, compatibility with nearby land uses, soil conditions, drainage, zoning and other considerations.

Policy 2.9: Local economic development efforts shall protect, enhance and encourage a high QUALITY OF LIFE, IMAGE AND CULTURAL AMENITIES as critical factors in business retention, recruitment and economic growth.

Policy 3.1: Wayne County shall be an active participant in recruiting new business development with the objective of providing higher paying jobs to area citizens, expanding the tax base and recapturing a larger percentage of retail sales.

Community Growth Areas provide for the development and redevelopment of smaller, usually freestanding communities in Wayne County. These areas may represent incorporated towns or may be unincorporated areas that nonetheless have a range of services typical of a small town. Community Growth Areas may have services provided through a combination of municipal and/or county functions. The use of community and/or County funds for planning, programming or providing services in these areas should be left up to the consensus of the people living in the area, working in conjunction with County decision-makers, especially when County resources are involved. Community Growth Areas may be developed at a variety of development densities and land use types to meet the housing, everyday shopping and employment needs of area residents.

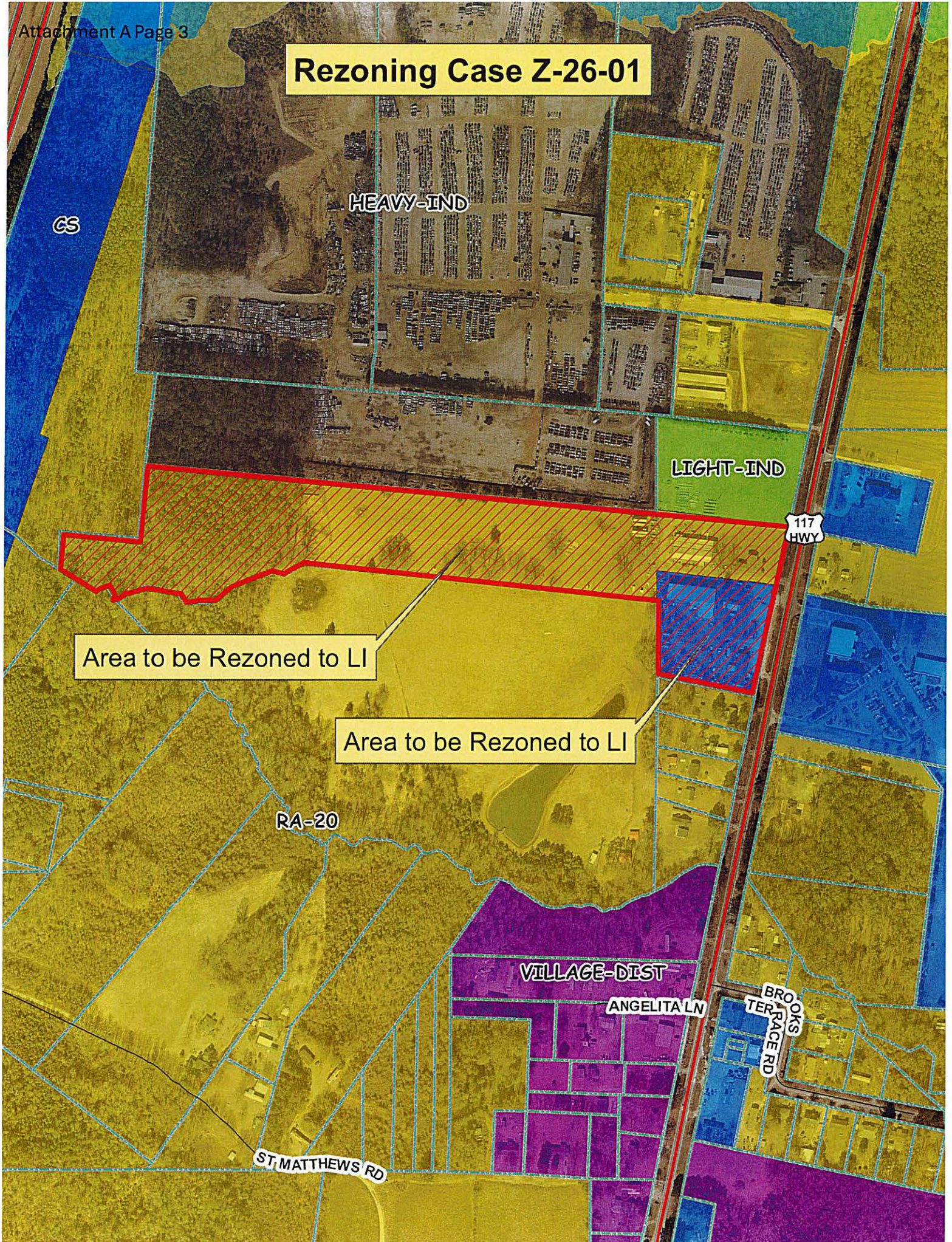
The property is within the following service areas:

- Schools – Brogden Primary, Brogden Middle and Southern Wayne High
- Water – Southeastern Wayne Sanitary District
- Fire – Dudley
- EMS – Station 8
- Transportation – RPO
- Water Supply Watershed – Yes
- Voluntary Agriculture District – No
- Wetlands – No
- Board of Commissioners District – 2
- AICUZ Area – No
- SJAFB Airspace Area – Yes

Recommendation: The Wayne County Planning Board recommends approval of the rezoning request. NC General Statutes require that the Board consider the following items in making a decision on a rezoning:

- 1) Consistency with the Comprehensive Land Use Plan: Staff's opinion is that the request is consistent with Policies 2.1, 2.9 or 3.1 listed above considering that the proposed zoning is compatible with nearby commercial/industrial zoning and County has established industrial zoning directly adjacent to the property. Also, the request is consistent with Policy 2.5 in that the proposed zoning would allow uses that are compatible with adjacent properties.
- 2) Consider if the request is reasonable and in the public interest: Staff's opinion is that the request is reasonable and in the public interest in that adjacent zoning and use is industrial and/or commercial in nature and non-residential is better suited in this vicinity.

Rezoning Case Z-26-01



CS

HEAVY-IND

LIGHT-IND

117
HWY

Area to be Rezoned to LI

Area to be Rezoned to LI

RA-20

VILLAGE-DIST

ANGELITA LN

BROOKS
RACE RD

ST MATTHEWS RD

Wayne County, North Carolina

Petition for AmendmentDate: 3-2-26Name of Applicant: WILLIAM BEST Telephone: 919-738-1245Address: 4240 US 117 ALT, DUDLEY, NC 28333Name of Owner: WILLIAM BEST Telephone: 919-738-1245Address: 4240 US 117 ALT, DUDLEY, NC 28333

1. Location or address of subject property _____

4260 US 117 ALT, DUDLEY, NC 283334240 US 117 ALT, DUDLEY, NC 283332. Current zoning classification of subject property: LIGHT IND, RES, SHOP3. Requested reclassification of property: LIGHT INDUSTRIAL ←

4. Legal description of the property (metes & bounds, or if subdivided, lot, block, subdivision plat book and page number): _____

PER 25856625575. Owner's intended use of the property in question if it is reclassified: MACHINE AND FABRICATION SHOPNOTE: PROPERTY
WAS SPLIT. ONE PORTION
IS ALREADY LIGHT
INDUSTRIAL

6. Explain in detail why you think this petition should be approved:

COMBINING PROPERTIES OF ALREADY LIGHTINDUSTRIAL TO UNIFY ALL PROPERTY FOR FUTURE GROWTH7. Names and addresses of owners whose property abuts the property in question: AMANDA WHALEY - 522 BILL CLIFTON ROAD, FAISON, NC 28341~~ADAM MONDRAGON~~ ADAM MONDRAGON - 4278 US HWY 117 SOUTH ALT, DUDLEY, NC 28333

I certify that I, the applicant, have the consent of the owner and act on his behalf in applying for the change in the Wayne County Zoning Ordinance.

Date: 3-2-26Signature: [Signature]

Applicant

8. Report of the Zoning Enforcement Officer on the property in question: _____

Fee Paid \$ _____ Date _____

Date Public Hearing Scheduled _____ Time _____

Dates Public Hearing Advertised _____

Petition: Approved _____ Denied _____

Petition No. _____

April 14th - Planning



Wayne County Citizens
Public Hearing Notice

The Wayne County Board of Commissioners will conduct a public hearing Tuesday, June 2, 2026 to consider a proposed amendment to the Wayne County Zoning Map. The hearing will be held at 9:15 am in the Wayne County Commissioners Meeting Room, Wayne County Courthouse Annex, 224 East Walnut Street, Goldsboro, NC. The item to be discussed:

Z-26-01 – Amend the Wayne County Zoning Map by rezoning a 18.61 acre tract from RA-20 and Community Shopping (CS) to Light Industry (LI). The property is located in Brogden Township on the west side of US Hwy 117 Alt approximately 3/4 mile north of O'Berry Road and is listed in the Wayne County Tax Office as Parcel Number 2585662557.

The public is invited to attend and speak at this hearing and/or submit any comments. Written comments before the meeting may be submitted to the Wayne County Planning Department, PO Box 227, Goldsboro, NC 27533 or berry.gray@waynegov.com. Questions may be directed to the Planning Department by calling 919-731-1650.

Carol Bowden
Clerk to the Board

Run Ad on May 17 and May 24

**NOTICE
FILING OF BUDGET ESTIMATE AND PUBLIC HEARING**

Notice is hereby given the County Manager's proposed budget for Wayne County for the fiscal year beginning July 1, 2026, was presented to the Wayne County Board of Commissioners on May 19, 2026, and a copy thereof is on file for public inspection in the office of the Clerk to the Board in Room 466 in the Wayne County Courthouse Annex, 224 E. Walnut Street, Goldsboro, North Carolina. The budget is also available on the county website at www.waynegov.com.

Notice is hereby given the Wayne County Board of Commissioners will hold a public hearing at 9:30 a.m. on Tuesday, June 2, 2026, in the Commissioners' Meeting Room in the Wayne County Courthouse Annex, 224 E. Walnut Street, Goldsboro, North Carolina, at which time all citizens have a right to appear and give oral or written comments pertaining thereto. The public may view the hearing on www.youtube.com/@WayneCountyGovernment.

Written comments may be made to the Clerk to the Wayne County Board of Commissioners before the public hearing. The Clerk will make those written comments available to all members of the Wayne County Board of Commissioners prior to the Wayne County Board of Commissioners' vote on the budget.

WAYNE COUNTY BOARD OF COMMISSIONERS

Kayla Whitley, Deputy Clerk to the Board

P.O. Box 227

Goldsboro, NC 27533-0227

kayla.whitley@waynegov.com

May 20, 2026

Publish Date May 24, 2026

NOTICE OF PUBLIC HEARING
NORTH CAROLINA
WAYNE COUNTY

Notice is hereby given that the Wayne County Board of Commissioners will hold a public hearing on June 2, 2026 at 9:30 am in the Commissioners Meeting Room in the Wayne County Courthouse Annex, 224 E. Walnut St., Goldsboro, NC. The purpose of the public hearing is to receive public comments regarding economic incentives for Project Pioneer. The Board of Commissioners will consider an incentive grant of up to 30% of new real and personal property tax revenues from the project, payable over ten (10) years, in exchange for the company's commitment to invest up to \$756,000,000 in capital improvements and to create up to 9 jobs in Wayne County.

All interested parties are invited to attend this public hearing and be heard. Written comments may be made in advance to the following:

Kayla Whitley, Deputy Clerk to the Board
Wayne County Board of Commissioners
P.O. Box 227
Goldsboro, NC 27533-0227
(919) 731-1445
carol.bowden@waynegov.com

This the 29th day of May, 2026.

Kayla Whitley
Wayne County Deputy Clerk to the Board

LEASE AGREEMENT
FOR
ROSEWOOD ELEMENTARY SCHOOL

BY AND BETWEEN

COUNTY OF WAYNE
(AS LANDLORD)

AND

WAYNE COUNTY BOARD OF EDUCATION
(AS TENANT)

NORTH CAROLINA
WAYNE COUNTY:

LEASE AGREEMENT

THIS LEASE AGREEMENT ("Agreement") made and entered into this _____ day of June 2026, by and between the COUNTY OF WAYNE, a body politic and corporate, hereinafter "Landlord" and the Wayne County Board of Education, also a body politic and corporate, hereinafter "Tenant".

WITNESSETH:

WHEREAS, the Wayne County Board of Commissioners ("the County Commissioners") and the Wayne County Board of Education ("the School Board") have entered into a "Funding Agreement for the Renovation of Rosewood Middle School to Include the Expansion of Rosewood Elementary School," dated April 14, 2026, ("April Funding Agreement") attached hereto as Exhibit B, for the renovation of the Rosewood Middle School and expansion of Rosewood Elementary School("the Project"); and

WHEREAS, the School Board has conveyed the Property (described below) to the County Commissioners in order to enable the County to obtain additional financing for the construction of the Project and reclaim sales and use taxes paid by the various contractors and vendors in the construction of the Project; and

WHEREAS, the County Commissioners agreed to lease the Property to the School Board for the operation of the school until such time as the Property is reconveyed to the School Board pursuant to the April Funding Agreement; and

WHEREAS, the parties desire to set forth herein the further terms and conditions of their Agreement;

NOW, THEREFORE, for and in consideration of the premises and the mutual benefits to be derived by each of the parties from this Agreement, and for the further consideration of One Dollar in hand paid to Landlord by Tenant, the receipt of which is hereby acknowledged, Landlord does hereby let and lease to Tenant and Tenant accepts the same as tenant of Landlord, that certain property described in Exhibit A and subject to a deed between the Landlord and Tenant, including all the improvements, facilities and equipment now existing and/or located on or about these premises as well as all improvements, facilities and equipment to be constructed and/or placed on the property during the term of this Agreement ("the Property").

THE TERMS AND CONDITIONS OF THIS AGREEMENT ARE AS FOLLOWS:

LEASE: The Landlord hereby leases the Property to the Tenant and the Tenant hereby leases the same from the Landlord in accordance with the provisions of this Agreement.

TERM: The term of this lease shall extend until such time as the Landlord shall convey the Property to the Tenant pursuant to the terms of the April Funding Agreement. If for any reason the Property is conveyed to the Tenant at a different time, then this lease shall terminate at the time the property is conveyed to the Tenant by Landlord.

RENTAL: The mutual interest in and benefit to the County and the Public Schools in the obtaining of financing and the refund of use and sales taxes referenced in the April Funding Agreement is deemed adequate consideration for this Lease Agreement without the payment of additional rents.

USE OF PREMISES: During the term of this lease, Tenant shall have the exclusive right to possess, use, occupy, improve and insure the Property and all improvements, facilities and equipment located thereon for any and all school purposes, and shall have the right to carry on and conduct such programs and activities

on the premises as may be required and/or permitted in accord with all applicable federal, state and local laws, rules, regulations and policies pertaining to Tenant in the operation of a public school system. In addition, Tenant shall have the right and authority in its discretion to grant permission to third parties to use the Property or portions thereof for non-school purposes and may enter into joint use or facility use agreements for the use of the Property or portions thereof pursuant to N.C. Gen. Stat. § 115C-524, or otherwise as allowed by law. Landlord shall request permission from Tenant to enter the Property and shall comply with all policies and procedures established by Tenant related to visitors on campus.

UTILITIES AND OTHER EXPENSES: Tenant shall be solely responsible for the cost of providing electrical service, heat, air conditioning, lights, water, sewer, garbage removal and any other utility services in connection with its use of the Property. In addition, Tenant shall be responsible for the payment of all other expenses incurred and/or required in connection with its use of the Property for any purposes. It is not the intent of the parties that the foregoing reduce in any way the statutory obligations of Landlord to provide local current expense and capital outlay funds for the operation of the public school system in Wayne County.

ASSIGNMENT AND SUB-LETTING: Neither party shall assign any interest right or responsibility hereunder without the consent of the other party. Tenant may sub-let all or a portion of the Property as deemed necessary or desirable in carrying out its duties and responsibilities for the operation of the public school system in Wayne County.

REPAIRS, MAINTENANCE AND ALTERATIONS: Tenant shall be responsible for all repairs to and maintenance of the Property during the term of the lease. Tenant shall have the right to make any alterations, repairs, additions and improvements it deems necessary or desirable to the Property in connection with its use thereof. It is understood however that Tenant will not make any such additions, alterations, repairs or improvements without the consent of Landlord when such actions would result in a financial obligation on the part of Landlord to which it has not given its consent or where such consent may otherwise be required by law.

INSURANCE: Tenant will maintain in effect during the term of this Agreement a policy or policies of property insurance on the buildings, equipment and other improvements, with the Landlord listed as a named insured. Such coverages shall be in accord with the recommendations of the State Department of Public Instruction. Evidence of such insurance will be furnished to Landlord upon request. Tenant shall retain the sole authority to control and direct the application and distribution of any insurance proceeds applicable to the Property.

FIRE AND OTHER CASUALTY: If the improvements on the Property shall be damaged or destroyed by fire or other casualty, Tenant shall be responsible for replacing and/or repairing the premises from the proceeds of the applicable insurance policy or policies and the Lease Agreement shall remain in full force and effect.

INDEMNITY: To the extent allowed by law, Tenant shall indemnify, defend and hold harmless the Landlord from and against all claims, suits, actions and proceedings whatsoever which may be brought or instituted on account of, growing out of, occurring from, incident to or resulting from the possession and use of the Property by Tenant. This indemnity shall not affect the right of Tenant to claim governmental immunity in any claim or proceedings by a third party.

SUBORDINATION: This Lease shall be subordinate to any Mortgage or Deed of Trust encumbering the Property or any part thereof, whether now in effect or hereinafter placed in effect for the purpose of securing the financing of construction and improvements on the Property, and to all renewals, modifications, replacements and extensions of such Mortgage or Deed of Trust, including the refinancing thereof. Landlord and Tenant each agree to execute such documents as may be required by the Lender to acknowledge the subordination of the Lease to the lien(s) of any such Mortgage or Deed of Trust.

COMPLIANCE WITH AGENCY AGREEMENT: The respective obligations of the parties regarding construction on any of the Property subject to this Lease Agreement shall be governed by the terms of the April Funding Agreement entered into by the parties, the terms and conditions which are incorporated herein by reference.

APPLICABLE LAW: This Lease Agreement shall be construed in accord with the laws, statutes, and ordinances of the State of North Carolina.

SEVERABILITY: The provisions hereof are independent covenants and should any provision or provisions contained in this Lease be declared by a court or other tribunal of competent jurisdiction to be void, unenforceable or illegal, then such provision or provisions shall be severable and the remaining provisions hereof shall remain in full force and effect as long as the parties can carry out the purposes and intents of this Lease Agreement without there being undue hardship on the part of either party in performing hereunder.

EASEMENTS, RESTRICTIONS AND RIGHTS OF WAY: The Property is demised subject to all easements, restrictions and rights of way legally affecting the Property.

BINDING EFFECT AND COMPLETE TERMS: The terms, covenants, conditions and agreements herein contained shall be binding upon and inure to the benefit of and shall be enforceable by Landlord and Tenant and by their respective successors and assigns. All negotiations and agreements of Landlord and Tenant are merged herein. No modification hereof or other purported agreement of the parties shall be enforceable unless the same is in writing and signed by the Landlord and Tenant.

NOTICES AND WRITTEN CONSENTS: All notices and written consents required under this Lease shall be in writing and shall be deemed properly served if personally delivered or if deposited in the United States Mail, addressed to the then current address of the party to receive the same.

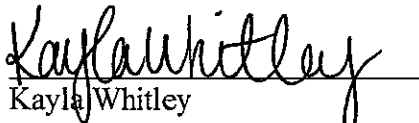
RECORDING: A memorandum hereof may be prepared and recorded in the County where the premises are located, at the request of either party and at such party's expense. The aforesaid memorandum shall contain such information as is necessary to provide adequate record notice of the existence of the Lease, including the parties, the term, the property involved and whether options to renew or purchase exist.

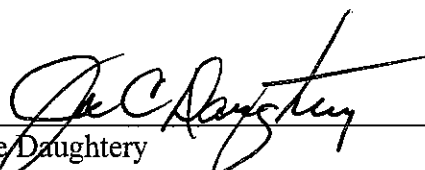
IN WITNESS WHEREOF, the parties have caused this Agreement to be executed in duplicate on their behalf by the appropriate official effective as of the date first above written.

[COUNTY SEAL]

THE COUNTY OF WAYNE

ATTEST:


Kayla Whitley
Clerk, Board of Commissioners

By: 
Joe Daughtery
Chair, Board of Commissioners

This instrument has been preaudited in the manner required by The Local Government Budget and Fiscal Control Act.


Angela Boswell
Finance Officer
The County of Wayne

STATE OF NORTH CAROLINA
WAYNE COUNTY

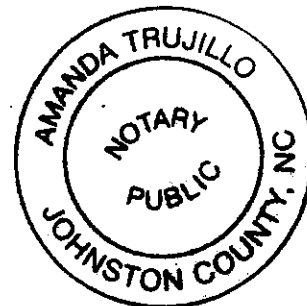
I, Amanda Trujillo, a Notary Public of Said State and County, do hereby certify that Joe Daughtery and Kayla Whitley personally came before me this day and acknowledged that they are the Chairman and Clerk, respectively, of the Board of Commissioners of Wayne County, North Carolina, and that by authority duly given and as the act of The County of Wayne, the foregoing instrument was signed in the County's name by the Chairman of its Board of Commissioners, sealed with its corporate seal and attested by such Clerk.

Witness my hand and official seal this 2 day of June, 2026.

[Signature]
Notary Public

Amanda Trujillo
(Printed Name of Notary)

12/17/28
My Commission expires:



[BOARD OF EDUCATION SEAL]

THE WAYNE COUNTY BOARD OF
EDUCATION

ATTEST:

Dr. Marcus A. Whichard, Secretary

By: _____
Willie R. Joyner, II
Chair, Board of Education

This instrument has been preaudited in the manner required by the School Budget and Fiscal Control Act.

Finance Officer
The Wayne County Board of Education

STATE OF NORTH CAROLINA WAYNE
COUNTY

I, _____, a Notary Public of said State and County, do hereby certify that Dr. Marcus Whichard, with whom I am personally acquainted, who, being by me duly sworn, says that he is the Secretary of the Wayne County Board of Education and that Willie R. Joyner is the Chair of such Board of Education, the Board described in and which executed the foregoing instrument; that he knows the common

seal of said Board; that the seal affixed to the foregoing instrument is said common seal, and the name of the Board was subscribed thereto by the said Chair; and that said Chair and Secretary subscribed their names thereto, and said common seal was affixed, all by order of the Board and that the said instrument is the act and deed of said Board.

Witness my hand and official seal this _____ day of _____, 2026.

Notary Public

(Printed Name of Notary)

My Commission expires

MEMORANDUM

To: Wayne County Board of Commissioners

From: Berry Gray, Planning Director

Date: April 15, 2026

Re: Subdivision Final Plat Approval

Item: Bella Pointe Phase 1, Final
Owner/Developer: RRT Development LLC
Engineer/Surveyor: Stocks Engineering/Stokes Surveying
New Hope Township, US Hwy 70 E
Lots: 54

The Bella Pointe Phase 1 final consists of 54 lots on 39.7 acres. The subdivision is located on US Hwy 70 E, 2/3 of a mile east of its intersection with N Beston Road. The property is not located within a zoning area, and the average lot size is 28,749 sf. Building lots will utilize public water and onsite sewer. The property is shown within an Urban Transition area on the Wayne County Growth Strategies Map. Until the streets are accepted into the State's secondary road system, the developer has signed a statement regarding the maintenance of the streets and right of ways.

The property is located within the following service areas:

- Schools – Eastern Wayne High, Middle, Elementary Schools
- Water – East Wayne Sanitary District
- Fire – El Roy Fire Department
- EMS – Station 11
- Transportation – MPO
- Water Supply Watershed – No
- Voluntary Agriculture District – No
- Wetlands – Yes
- Board of Commissioners District – 5

Recommendation: The Wayne County Planning Board recommends approval of the final plat.

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MEMORANDUM

To: Wayne County Board of Commissioners

From: Berry Gray, Planning Director

Date: April 15, 2026

Re: Final Subdivision Plat Approval

Item: Saddleback Farms, Final

Owner/Developer: Barbour Brothers Holdings

Surveyor/Engineer: Bryan Jones Consulting Engineers

Great Swamp Township, Owens Farm Road (SR 1355)

Lots: 11 lots in the County's Jurisdiction; Lots 38-48

Discussion: Saddleback Farms consists of 11 lots on 17.3 acres. The subdivision is located on Owens Farm Road, just west of its intersection with US Hwy 117 N. The property is not located within a zoning area and the average lot size is 1.53 acres. Building lots will utilize public water and onsite septic. The property is shown within the Rural area on the Wayne County Growth Strategies Map. Improvements are complete and a NCDOT Built to Standards letter has been submitted to the County. Until the streets are accepted onto the State's secondary road system, the developer has signed a statement regarding the maintenance of the streets and right of ways.

The property is located within the following service areas:

Schools – Charles B Aycock HS, Norwayne Middle, Fremont Elem

Water – Northwestern Wayne Sanitary District

Fire – Fremont Fire Department

EMS – Station 7

Transportation – RPO

Water Supply Watershed – No

Voluntary Agriculture District – No

Wetlands – Yes

Board of Commissioners District – 1

Recommendation: The Wayne County Planning Board recommends approval of the final plat.

NC 680 (NA083/2011)

LINE	BEARING	DISTANCE	POINT
1	N 89°01'34" E	516.20' (TOTAL)	1
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83	N 89°01'34" E	516.20' (TOTAL)	83
84	S 89°01'34" E	516.20' (TOTAL)	84
85	N 89°01'34" E	516.20' (TOTAL)	85
86	S 89°01'34" E	516.20' (TOTAL)	86
87	N 89°01'34" E	516.20' (TOTAL)	87
88	S 89°01'34" E	516.20' (TOTAL)	88
89	N 89°01'34" E	516.20' (TOTAL)	89
90	S 89°01'34" E	516.20' (TOTAL)	90
91	N 89°01'34" E	516.20' (TOTAL)	91
92	S 89°01'34" E	516.20' (TOTAL)	92
93	N 89°01'34" E	516.20' (TOTAL)	93
94	S 89°01'34" E	516.20' (TOTAL)	94
95	N 89°01'34" E	516.20' (TOTAL)	95
96	S 89°01'34" E	516.20' (TOTAL)	96
97	N 89°01'34" E	516.20' (TOTAL)	97
98	S 89°01'34" E	516.20' (TOTAL)	98
99	N 89°01'34" E	516.20' (TOTAL)	99
100	S 89°01'34" E	516.20' (TOTAL)	100

WAKE COUNTY REGISTER OF DEEDS

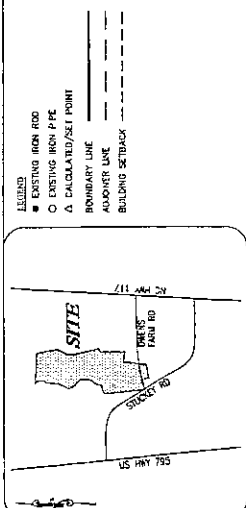
STATE OF NORTH CAROLINA, WAKE COUNTY
THIS INSTRUMENT WAS PRESENTED FOR REGISTRATION
AND RECORDED THIS DAY OF _____, 20____.

BY _____
AGENT OF RECORD

PREPARED BY: **STOKES**
SADDLERACK FARMS
SUBDIVISION
SHEET 3 OF 3
SCALE: 1" = 120'
COUNTY: WAKE
TOWNSHIP: CROFT SWAMP
DATE: 07/13/2024
DRAWN BY: JMS
FIELD BY: JMS
REVIEWER: JMS
CADD FILE: 23466

STOKES
SURVEYING & MAPPING, PLLC
Firm License # P-1139
143105 B Road Quarry Rd
Raleigh, NC 27610
(919) 971-7897
www.stokesurveying.com

120 0 60 120 240



I, MICHAEL STOKES, CERTIFY THAT THIS WAS MADE UNDER MY SUPERVISION AND THAT THE SURVEY WAS MADE IN ACCORDANCE WITH THE STANDARDS AND PRACTICES OF THE SURVEYING PROFESSION. I AM A LICENSED SURVEYOR IN THE STATE OF NORTH CAROLINA. THE SURVEY WAS MADE ON THE DATE OF 07/13/2024. THE SURVEY WAS MADE BY MICHAEL STOKES, A LICENSED SURVEYOR IN THE STATE OF NORTH CAROLINA. THE SURVEY WAS MADE IN ACCORDANCE WITH THE STANDARDS AND PRACTICES OF THE SURVEYING PROFESSION. I AM A LICENSED SURVEYOR IN THE STATE OF NORTH CAROLINA.



SURVEYOR CERTIFICATION
I, MICHAEL STOKES, CERTIFY THAT THE FOLLOWING
THAT THE SURVEY CREATES A SUBDIVISION OF LAND WITHIN THE
COUNTY OF WAKE, NORTH CAROLINA, AND THAT THE SURVEY
WAS MADE IN ACCORDANCE WITH THE STANDARDS AND PRACTICES
OF THE SURVEYING PROFESSION.

NORTH CAROLINA

WAYNE COUNTY

**RESOLUTION #2026-16: A RESOLUTION BY THE COUNTY OF WAYNE
TO DIRECT THE EXPENDITURE OF OPIOID SETTLEMENT FUNDS**

WHEREAS Wayne County has joined national settlement agreements with companies engaged in the manufacturing, distribution, and dispensing of opioids, including settlements with drug distributors Cardinal, McKesson, and AmerisourceBergen; drug makers Johnson & Johnson and its subsidiary Janssen Pharmaceuticals, and Purdue Pharma, Mallinckrodt, Insys, Allergan, Endo, and Teva; and pharmacies CVS, Rite Aid, Walgreens, and Walmart;

WHEREAS the allocation, use, and reporting of funds stemming from these national settlement agreements and bankruptcy resolutions (“Opioid Settlement Funds”) are governed by the Memorandum of Agreement Between the State of North Carolina and Local Governments on Proceeds Relating to the Settlement of Opioid Litigation (“MOA”) and the Supplemental Agreement for Additional Funds from Additional Settlements of Opioid Litigation (“SAAF”);

WHEREAS Wayne County has received Opioid Settlement Funds pursuant to these national settlement agreements and deposited the Opioid Settlement Funds in a separate special revenue fund as required by section D of the MOA;

WHEREAS section E.6 of the MOA states that, before spending opioid settlement funds, the local government’s governing body must adopt a separate resolution that:

- (i) indicates that it is an authorization for expenditure of opioid settlement funds; and,
- (ii) states the specific strategy or strategies the county or municipality intends to fund pursuant to Option A or Option B, using the item letter and/or number in Exhibit A or Exhibit B to identify each funded strategy; and,
- (iii) states the amount dedicated to each strategy for a specific period of time.

NOW, THEREFORE BE IT RESOLVED, in alignment with the NC MOA and SAAF, Wayne County authorizes the expenditure of opioid settlement funds as follows:

- 1. First strategy authorized
 - a. Name of strategy: Addiction treatment for incarcerated persons.
 - b. Strategy is included in Exhibit A.
 - c. Item letter and/or number in Exhibit A or Exhibit B to the MOA: Number 11 (Exhibit A)
 - d. Amount authorized for this strategy: \$161,000.00
 - e. Period of time during which expenditure may take place:
Start date July 1, 2026 through End date June 30, 2027
 - f. Description of the program, project, or activity: Wayne County will contract with its correctional healthcare provider to provide Medication-Assisted Treatment services to inmates at the Wayne County Detention Center. The

provider will supply MAT clinical and administrative nursing coverage for 40 hours a week.

g. Provider: IMS Correctional Healthcare

The total dollar amount of Opioid Settlement Funds appropriated across the above-named and authorized strategies is \$161,000.00.

Adopted this the 2nd day of June, 2026.



Joe C. Daughtery, Chairman
Wayne County Board of Commissioners

ATTEST:



Kayla Whitley, Deputy Clerk to the Board



Type: CRP
Recorded: 6/4/2026 10:38:34 AM
Fee Amt: \$26.00 Page 1 of 2
Revenue Tax: \$0.00
WAYNE COUNTY, NC
TINA ARNDER Register of Deeds

Indexed

BK 4088 PG 502 - 503

Return to: Everett, Womble & Lawrence, LLP
Prepared By: Andrew J. Neal, County Attorney, PO Box 227, Goldsboro, NC 27533
*The attorney preparing this instrument has made no title examination of this property
and expresses no opinion as to title unless contained in a separate written certificate.*

NORTH CAROLINA
WAYNE COUNTY

PARCEL ID: 2599895554
Excise Tax: \$0.00

THIS QUITCLAIM DEED, made and entered into this 2nd day of June, 2026, by and between the COUNTY OF WAYNE, a body politic and corporate organized under the laws of the State of North Carolina, having a mailing address of P.O. Box 227, Goldsboro, NC 27533, hereinafter referred to as "Grantor"; and the CITY OF GOLDSBORO, a North Carolina Municipal corporation, in the County of Wayne, State of North Carolina, having a mailing address of P.O. Drawer A, Goldsboro, NC 27533, hereinafter referred to as "Grantee."

WITNESSETH:

That said Grantors, for and in consideration of the sum of Ten Dollars to it in hand paid, the receipt of which is hereby acknowledged, has remised and released and by these presents does remise, release and forever quitclaim unto the Grantee and Grantees successors and assigns all right, title, claim and interest of the said Grantors in and to a certain tract or parcel of land lying and being in the City of Goldsboro, Wayne County, North Carolina, and more particularly described as follows:

711 N. Virginia Street, Goldsboro (PIN: 2599895554)

Being Lot Number 6 in Block E of the subdivision known as Oak Heights according to a plat thereof recorded in the office of the Register of Deeds of Wayne County in Plat Book 2, Page 83.

Deed reference: Book 3845, Page 280, Wayne County Registry.

The property described IS NOT the primary residence of the Grantors.

submitted electronically by "Everett, Womble & Lawrence, LLP"
in compliance with North Carolina statutes governing recordable documents
and the terms of the submitter agreement with the Wayne County Register of Deeds.

To have and hold the aforesaid tract or parcel of land and all privileges thereunto belonging to the said Grantee, its successors and assigns free and discharged from all right, title claim or interest of the said Grantors or anyone claiming by, through or under it.

The plural number as used herein shall equally included in the singular. The masculine or feminine gender as used herein shall equally include the neuter.

In Testimony Whereof, said Grantors have hereunto set its hand and seal the day and year first above written.

COUNTY OF WAYNE

BY:

Joe C. Daughtery
Joe C. Daughtery, Chairman
Wayne County Board of Commissioners

ATTEST:

Kayla Whitley
Kayla Whitley
Deputy Clerk to the Board of Commissioners



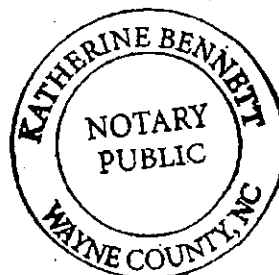
NORTH CAROLINA
COUNTY OF WAYNE

I, Katherine Bennett, Notary Public of Wayne County, do hereby certify that Kayla Whitley personally appeared before me this day and acknowledged that she is Deputy Clerk to the Board of the Commissioners of the COUNTY OF WAYNE, a body politic and corporate, and that by authority duly given and as the act of the County of Wayne, the foregoing instrument was signed in its name by its Chairman, Joe C. Daughtery, sealed with its seal and attested by herself as its Clerk.

Witness my hand and official seal, this the 2nd day of June 2026.

Katherine Bennett
NOTARY PUBLIC

My commission expires: 11-11-2028



WAYNE COUNTY

5/18/2026 8:26:26 AM

COUNTY OF WAYNE CITY OF GOLDSBORO

711 N VIRGINIA ST
75344587

Return/Appeal Notes: Parcel: 2599895554

PLAT: / UNIQ ID 47917
ID NO: 12000074004011

COUNTYWIDE ADVALOREM TAX (100), CITY - GOLDSBORO (100)

CARD NO. 1 of 1

SRC=

Reval Year: 2025 Tax Year: 2026 N VIRGINIA ST

1.0000 LT

CI-01FR-00EX-2 AT-

LAST ACTION 20241008

Appraised by 60 on 01801 CENTRAL BUSINESS DISTRICT

TW-12

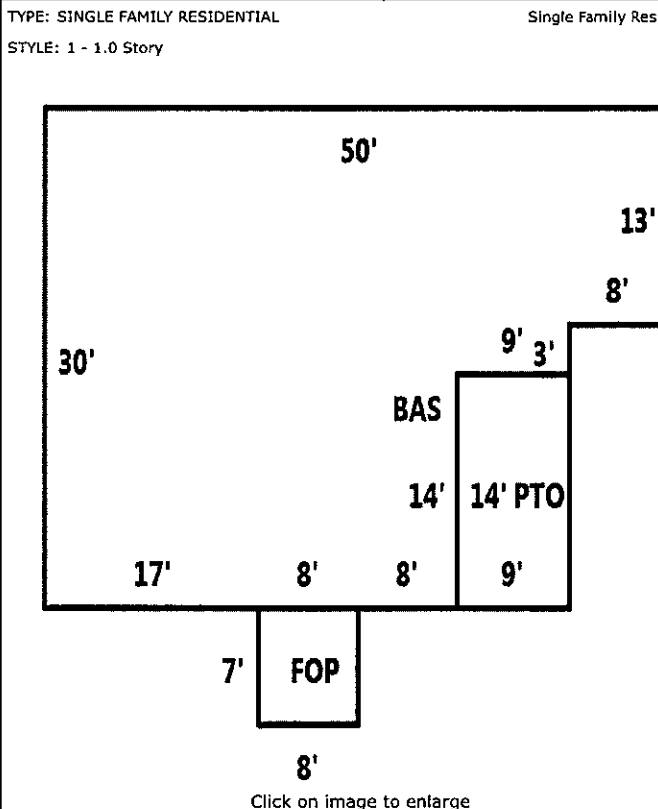
CONSTRUCTION DETAIL		MARKET VALUE				DEPRECIATION				CORRELATION OF VALUE			
Foundation - 3		USE MOD	Eff. Area	QUAL	BASE RATE	RCN	EYB	AYB	EOBS	Economic Obsolescence	Standard	0.08000	0.70000
Continuous Footing	5.00	01	01	1,261	94	117.50	148168	1940	1900	% GOOD	22.0	DEPR. BUILDING VALUE - CARD	32,600
Sub Floor System - 5	6.00												
Woo w/ Sub Floor	28.00												
Exterior Walls - 13	28.00												
Stucco on Tile/Wood Frm	4.00												
Roofing Structure - 03	4.00												
Gable	4.00												
Roofing Cover - 03	4.00												
Asphalt or Comp Shingle	28.00												
Interior Wall Construction - 3	7.00												
Plastered	1.00												
Interior Floor Cover - 09	7.00												
Pine or Soft Woods	4.00												
Heating Fuel - 04	0.00												
Electric	0.00												
Heating Type - 04	0.00												
Forced Air-Ducted	0.00												
Air Conditioning Type - 01	0.00												
None	0.00												
Bedrooms/Bathrooms/Half-Bathrooms	12.000												
3/2/0	0.00												
Bedrooms	0.00												
BAS - 3 FUS - 0 LL - 0	0.00												
Bathrooms	0.00												
BAS - 2 FUS - 0 LL - 0	0.00												
Half-Bathrooms	0.00												
BAS - 0 FUS - 0 LL - 0	0.00												
Office	0.00												
BAS - 0 FUS - 0 LL - 0	0.00												
TOTAL POINT VALUE	99.000												
BUILDING ADJUSTMENTS													
Quality	4	Below Average +	0.9500										
Shape/Design	1	Market Adjustment	1.0000										
Size	Size	Size	1.0000										
TOTAL ADJUSTMENT FACTOR	0.950												
TOTAL QUALITY INDEX	94												

SUBAREA		CODE	QUALITY	DESCRIPTION	COUNT	LT	WT	UNITS	UNIT PRICE	ORIG %	COND	BLDG#	SIZE	FACT	AYB	EYB	ANN DEP	RATE	OVR	%	COND	OB/XF DEPR.	VALUE
BAS	1,238	100	145465																				
FOP	56	030	1998																				
PTO	126	005	705																				
FIREPLACE	1	None	0																				
SUBAREA TOTALS	1,420		148,168																				

BUILDING DIMENSIONS BAS=W50S30E17E8E8N14E9N3E8N13Area:1238;FOP=E8S7W8N7Area:56;PTO=E9N14W9S14Area:126;TotalArea:1420

LAND INFORMATION

HIGHEST AND BEST USE	USE CODE	LOCAL ZONING	FRONTAGE	DEPTH	DEPTH / SIZE	LND MOD	COND FACT	OTHER ADJUSTMENTS AND NOTES	ROAD TYPE	LAND UNIT PRICE	TOTAL LAND UNITS	UNT TYP	TOTAL ADJST	ADJUSTED UNIT PRICE	LAND VALUE	OVERRIDE VALUE	LAND NOTES
0100	0100	R-6	58	159	1.0300	2	1.0000			125.00	58.000	FF	1.030	128.75	7468	0	
TOTAL MARKET LAND DATA																	
TOTAL PRESENT USE DATA																	

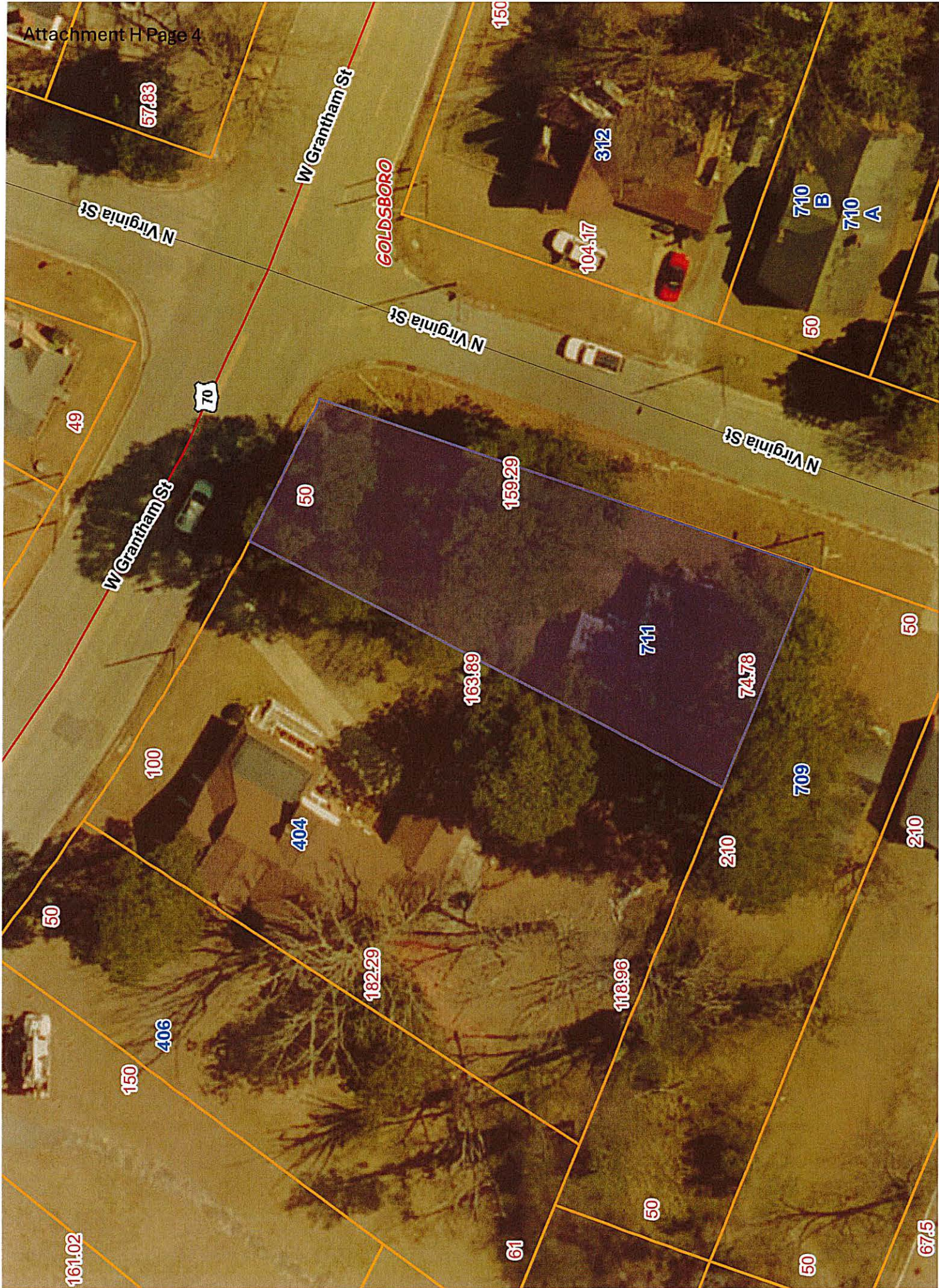


CREDENCE TO		MARKET			
DEPR. BUILDING VALUE - CARD		32,600			
DEPR. OB/XF VALUE - CARD		0			
MARKET LAND VALUE - CARD		7,470			
TOTAL MARKET VALUE - CARD		40,070			
TOTAL APPRAISED VALUE - CARD		40,070			
TOTAL APPRAISED VALUE - PARCEL		40,070			
TOTAL PRESENT USE VALUE - PARCEL		0			
TOTAL VALUE DEFERRED - PARCEL		0			
TOTAL TAXABLE VALUE - PARCEL \$		40,070			
PRIOR					
BUILDING VALUE		20,860			
OBXF VALUE		0			
LAND VALUE		4,480			
PRESENT USE VALUE		0			
DEFERRED VALUE		0			
TOTAL VALUE		25,340			
PERMIT					
CODE	DATE	NOTE	NUMBER	AMOUNT	
ROUT: WTRSHD:					
SALES DATA					
OFF. RECORD	DATE	DEED	Q	U/V/I	INDICATE SALES PRICE
BOOK	PAGE	MOYR	TYPE	Q/U/V/I	
03845	0280	9	2023	WD C I	0
02993	0401	2	2013	WD C I	0
02019	0007	12	2002	WD U I	17500
01913	0581	12	2001	WD U I	30000
01527	0009	4	1996	WD U I	41000
01414	0083	1	1994	WD U I	5000
00925	0429	1	1977	WD U I	0

HEATED AREA 1,238

NOTES

HOUSE 100FF FROM GRANTHAM ST.



NORTH CAROLINA

WAYNE COUNTY

**RESOLUTION #2026-14: A RESOLUTION ALLOWING THE USE OF
PYROTECHNICS**

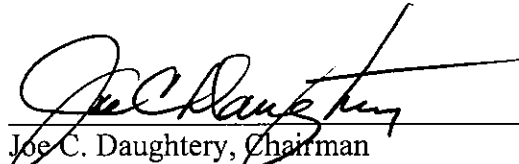
WHEREAS, Pyro Shows Southeast, has requested the Board of Commissioners of Wayne County for permission for pyrotechnics to be exhibited, used, and discharged in a safe and proper manner under the supervision of experts for a fireworks celebration which will be held on June 27, 2026, at 105 School Street, Pikeville, North Carolina, as provided by North Carolina General Statute 14-410; and

WHEREAS, it is the intention of Pyro Shows Southeast to use said displays in a public celebration; and

WHEREAS, it appears to the Wayne County Board of Commissioners that permits to use pyrotechnics should be given for such celebration as provided by North Carolina General Statutes 14-410 and 14-413.

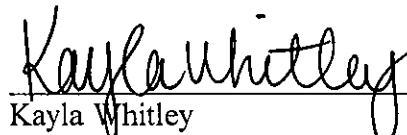
NOW, THEREFORE, BE IT RESOLVED by the Wayne County Board of Commissioners that Pyro Shows Southeast is hereby given permission to use pyrotechnics under the supervision of an expert at their public celebrations to be held on June 27, 2026, contingent upon the approval of the Wayne County Inspections Department.

This the 2nd day of June, 2026.

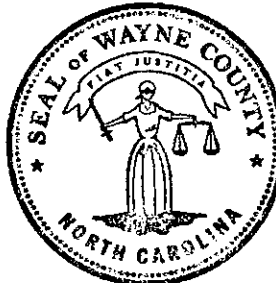


Joe C. Daughtery, Chairman
Wayne County Board of Commissioners

Attest:



Kayla Whitley
Clerk to the Board



**COUNTY OF WAYNE
APPLICATION FOR FIRE OPERATIONAL PERMIT**

DATE: 5-14-26

Applicants Name(s): Dennis Lewis, Pyro Shows Applicants Phone # 919-580-7417

Permanent 911 Address: 105 School St., Pikeville, NC 27863 Lot Number: _____

Number of private fire hydrant tests: _____

Inspections needed:

☐ Amusement Buildings	☐ Change of Occupancy/Ownership	☐ Miscellaneous
☐ Car Lots	☐ Covered Mall Buildings	☐ Private Fire Hydrants
☐ Carnivals and Fairs	☐ Day Care Centers	☐ Pyrotechnic Special effects material
☐ Exhibits and Trade shows	☐ Explosives	☐ Sale of fireworks
☒ Fireworks Display	☐ Flammable and combustible liquids	☐ Spraying or Dipping
☐ Fumigation & Thermal insecticidal fogging	☐ Homes (Foster)	☐ Temp Membrane
structures, Tents		
☐ Homes (Group)	☐ Homes (Nursing)	☐ & Canopies.
☐ Homes (Rest)	☐ Homes (Retirement)	
☐ Homes (Therapeutic)	☐ Homes (Youth)	
☐ Liquid or gas fueled vehicles	☐ Liquid or gas in assembly building	

Contractor/Owner/Business Listing with the state: Pyro Shows Southeast

Mailing Address: 115 N. 1st St., PO Box 1776 La Follette TN 37766

Contractor License number: _____ Work Number: — Mobile number: 919-580-7417

Contractor's Email Address: d.lewis@pyroshows.com

Please Email permit application to amanda.drake@waynegov.com & katie.johnson@waynegov.com

Fee schedule-Updated July 1, 2020, A re-inspection fee of \$60.00 will be charged per re-inspections 1.5 times total permit fee. Only if work is started before the permit is issued. Wayne County Inspections Department contact information:

Mailing address: P.O. Box 227 Goldsboro, NC 27533 Physical Address: 134 N. John St Goldsboro NC 27533 (3rd floor of the Jeffrey's Building in room 305) Phone #: (919)731-1169 Fax No: (919)705-1815 Website: www.waynegov.com A building permit must be obtained by a contractor or home/land owner in person only. A notarized owner exemption affidavit pursuant to G.S. 87-14(A)(1) Form may also be required. Notifications from a Lien agent resulting from session law 2012-158 may also be required.

By signing this document, I agree to all the above information.

Applicant Name: Dennis Lewis

Applicant Signature: Dennis Lewis

Date: 5-14-26

(Only put card information if you do not want to pay in person)

I _____ Hereby authorize the Wayne County Inspections Department to charge the permit fee to my credit card. (Credit card payment (VISA OR MASTERCARD ONLY)) Credit Card number: _____

Expiration date (MM/YY): _____ three-digit CVV/V-CODE on the back of the credit card: _____

Date of event: 6-27-26

*Will pay in
office prior
to event*



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

2/16/2026

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must have **ADDITIONAL INSURED** provisions or be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Acrisure Great Lakes Partners Insurance Services 223 West Grand River Ave #1 Howell MI 48843	CONTACT NAME: PHONE (A/C, No, Ext): 216-658-7100 FAX (A/C, No): 216-658-7101 E-MAIL ADDRESS: info@brittongallagher.com														
INSURED Pyro Shows East Coast Inc. PO Box 1776 LaFollette TN 37766	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">INSURER(S) AFFORDING COVERAGE</th> <th style="text-align: left;">NAIC #</th> </tr> </thead> <tbody> <tr> <td>INSURER A: Accident Fund Insurance Company of America</td> <td>10166</td> </tr> <tr> <td>INSURER B: Texas Insurance Company</td> <td>16543</td> </tr> <tr> <td>INSURER C: Allianz Global Corporate & Specialty SE</td> <td>7617</td> </tr> <tr> <td>INSURER D: HDI GLOBAL SPECIALTY SE</td> <td>1340041</td> </tr> <tr> <td>INSURER E: Continental Indemnity Company</td> <td>28258</td> </tr> <tr> <td>INSURER F:</td> <td></td> </tr> </tbody> </table>	INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A: Accident Fund Insurance Company of America	10166	INSURER B: Texas Insurance Company	16543	INSURER C: Allianz Global Corporate & Specialty SE	7617	INSURER D: HDI GLOBAL SPECIALTY SE	1340041	INSURER E: Continental Indemnity Company	28258	INSURER F:	
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INSURER E: Continental Indemnity Company	28258														
INSURER F:															

COVERAGES**CERTIFICATE NUMBER:** 367394616**REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
B	☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☒ PROJECT ☐ LOC OTHER:		BESGLPTSC011501_171105_01	10/31/2025	10/31/2026	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 500,000 MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
E	AUTOMOBILE LIABILITY ☒ ANY AUTO ☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☒ HIRED AUTOS ONLY ☒ NON-OWNED AUTOS ONLY		BESCRMNSC011501_171105_01	10/31/2025	10/31/2026	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
C	☐ UMBRELLA LIAB ☒ OCCUR ☒ EXCESS LIAB ☐ CLAIMS-MADE DED RETENTION \$		25ABEX0196	10/31/2025	10/31/2026	EACH OCCURRENCE \$ 4,000,000 AGGREGATE \$ 4,000,000
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N ☐ N/A	DAP99000105101 (NC)	10/1/2025	10/1/2026	☒ PER STATUTE ☐ OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
D	Excess Liability #2		18HX3624	10/31/2025	10/31/2026	Each Occ/Aggregate Total Limits \$5,000,000 \$10,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Additional Insured extension of coverage is provided by above referenced General Liability policy where required by written agreement.

Fireworks Display: 6/27/2026

Additional Insured: Greater Pikeville Improvement Committee; City of Pikeville: State of North Carolina

CERTIFICATE HOLDER**CANCELLATION**

Greater Pikeville Improvement Committee P.O. Box 351 Pikeville NC 37863 United States	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
--	--

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Dennis Lewis
Pikeville IDC2026
Saturday, June 27, 2026
 Show Time: 9:30 PM | Show Length: 12 Minutes

MAIN BODY

SHELL SIZE	DEVICE		QUANTITY		TOTAL
19 x 1.25"	Cakes		0		0
100 x 1.25"	Cakes		0		0
2.5"	Aerial Shells		0		0
3"	Aerial Shells		0		0
4"	Aerial Shells		117		117
5"	Aerial Shells		90		90

MAIN BODY DEVICE TOTAL 279

FINALE

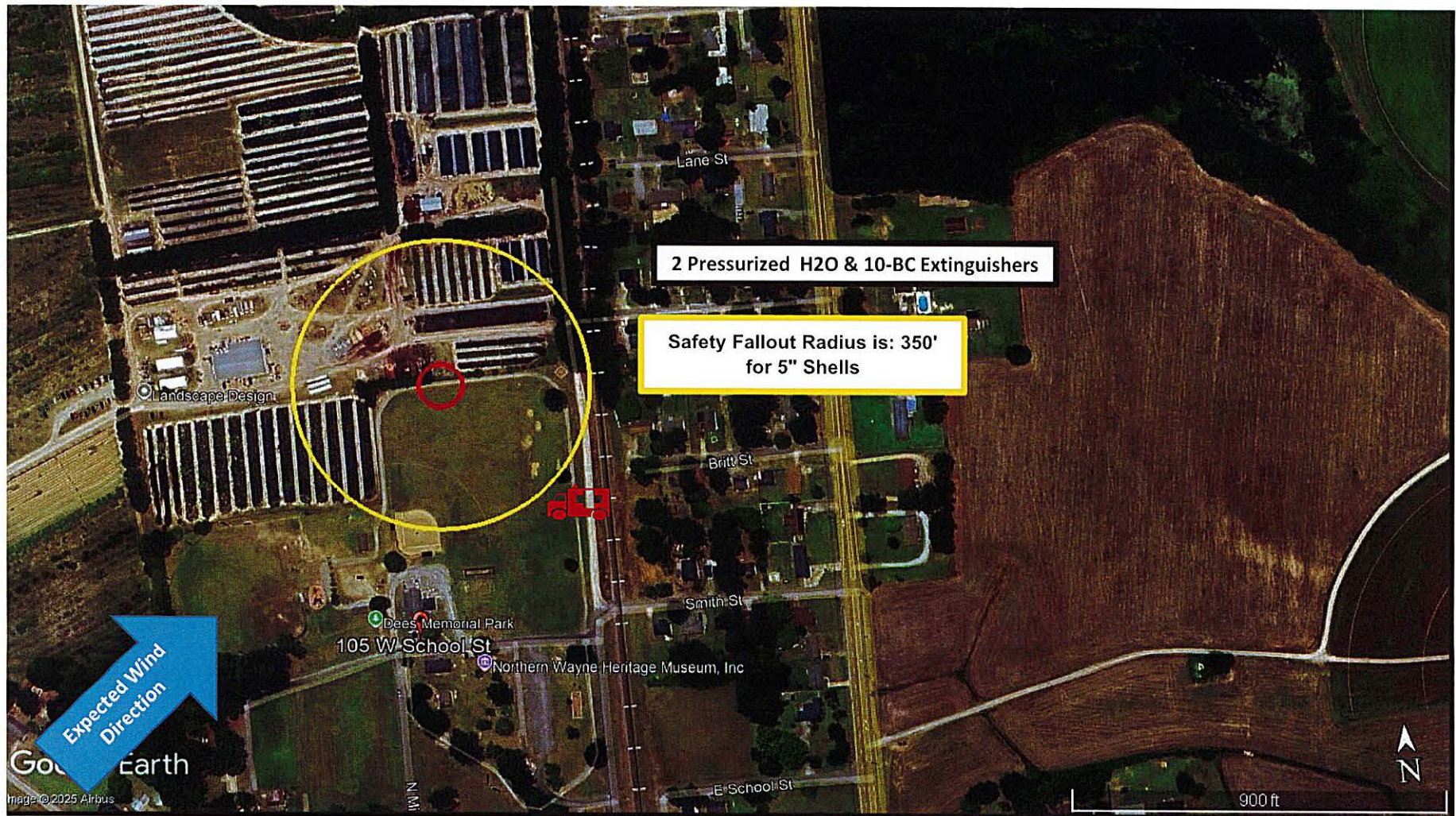
SHELL SIZE	DEVICE		QUANTITY		TOTAL
2.5	Aerial Shells		0		0
3"	Aerial Shells		200		200
4"	Aerial Shells		0		0
5"	Aerial Shells		0		0

TOTAL FINALE DEVICES 200

TOTAL DEVICE COUNT - MAIN BODY AND FINALE	479
--	------------

SITE

Pikeville-Customer Workbook - 60.27.2026 EC-v1-P5-M6-T10

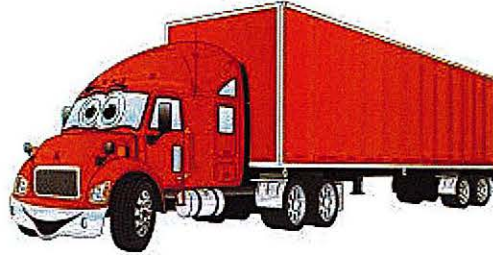


Customer: Greater Pikeville Improvement Committee
 Show Date: Saturday, June 27, 2026
 Show Address: 105 School Street Pikeville, NC 27863
 Show Site Lat / Long: 35°30'12.0"N 77°59'04.8"W
 Show Time: 9:30 PM
 Rain Date: Sunday, June 28, 2026

Show Name: Greater Pikeville Improvement Committee IDC2026
 Maximum Device Size: 5
 Safety Fallout Radius: 350'
 Storage Required: NO
 Diagram Created: 02/13/26
 Diagram Created By: JDS

REGULATORY BOOK

REGULATORY



PYRO SHOWS East Coast

REGULATORY

DOT Call In:

Carson Stogner – 800.238.5114

Please state location and time



Pyro Shows Inc

Contact Numbers

Main office – LaFollette, TN -----		800-662-1331
	FAX	423-562-9171
Jesse Salvesson -----	cell	423-494-4202
Mike Walden -----	cell	423-494-9057
Lansden Hill -----	cell	865-803-3700
<u>Pyro Shows of Texas</u>		
Texas office – Suzanne McKinney -----		800-488-7976
	FAX	817-237-3374
Kyle Wooten -----	cell	361-944-4595
Daniel Chadwick -----	cell	423-912-5069
Chad Stanley -----	cell	817-933-9017
Mike Walden -----	cell	423-494-9057
<u>Pyro Shows Alabama</u>		
Alabama office -----		877-776-7976
	FAX	205-789-2709
Stephanie Wiley -----	cell	205-777-1286
Marvin Jones -----	cell	205-266-5023
Jeff Freels -----	cell	205-915-9137
Danny Turner -----	cell	904-442-0171
Mike Walden -----	cell	423-494-9057

Pyro Shows Emergency Contact Information

Guidelines for calling:

Using your common sense, contact the person most likely able to help you or answer your questions. You are welcome to go up the chain as needed.

If you cannot reach the desired contact person, leave a voice mail message; but immediately follow it up with a text message.

(Generally, people check their text messages more frequently than they check voice mails)

Any incident that has caused personal injury, illness or property damage, whether caused by a fireworks vehicular accident shall be reported to

South Carolina – East Coast -----	800-238-5114
Fred Cantrell -----	803-984-9248
Scott Donahue -----	803-517-2893
Joes Matthews -----	803-558-9798
Carson Stogner -----	843-337-5166
Jesse Salvesson -----	423-494-4202

PYRO SHOWS TRAINING SEMINAR 2017

OUTDOOR DISPLAY MINIMUM DISTANCES TO REMEMBER	
35 FEET	PER SHELL INCH FROM MORTAR OF NON BURSTING COMET OR MINE TO SPECTATORS OR PARKING
70 FEET	PER SHELL INCH FROM MORTAR TO SPECTATORS OR PARKING
140 FEET	PER SHELL INCH FROM MORTAR TO HOSPITALS, JAILS OR BULK HAZ MAT STORAGE
2 FEET	PER SHELL INCH FROM MORTAR TO BUNKER THROUGH 6" SHELLS
4 FEET	PER SHELL INCH FROM MORTAR TO BUNKER LARGER THAN 6" SHELLS
25 FEET	BETWEEN AREA OF MANUAL FIRING AND ELECTRIC FIRING ON BARGES AND ROOFTOPS
25 FEET	TO OVERHEAD OBSTRUCTIONS SUCH AS TREE LIMBS, POWER LINES, OR ANTENNAS
50 FEET	DOWNWIND FROM FIREWORKS FOR SMOKING
50 FEET	FROM FIREWORKS TO SHELL REPAIR OR FUSE CUTTING ACTIVITY
50 FEET	FROM FIREWORKS TO PUBLIC AT SHOW SITE BEFORE PREPARATION
100 FEET	FROM FIREWORKS TO PUBLIC AT SHOW SITE DURING PREPARATION
75 FEET	FROM MORTARS TO UNSHELTERED OR UNBARRICADED CREW ON ELECTRIC SHOW
75 FEET	FROM LOW POWERED SET PIECES TO SPECTATORS OR PARKING
125 FEET	FROM HIGH POWERED SET PIECES, WHEELS, CAKES, OR ROMAN CANDLES TO SPECTATORS OR PARKING

PYRO SHOWS TRAINING SEMINAR 2017

HELPFUL HINTS WITH MOST COMMON QUESTIONS**FUSING WITH Z18 IGNITER CORD**

15 SEC DURATION	CUT TIMER FUSE 20 TO 21 INCHES
16 SEC DURATION	CUT TIMER FUSE 21 TO 22 INCHES
17 SEC DURATION	CUT TIMER FUSE 22 TO 23 INCHES
18 SEC DURATION	CUT TIMER FUSE 23 TO 24 INCHES
19 SEC DURATION	CUT TIMER FUSE 24 TO 25 INCHES
20 SEC DURATION	CUT TIMER FUSE 25 TO 26 INCHES
21 SEC DURATION	CUT TIMER FUSE 26 TO 27 INCHES
22 SEC DURATION	CUT TIMER FUSE 27 TO 28 INCHES

****WHEN FUSING WITH Z18 (RED CORD) YOU MUST TAPE ENTIRE LENGTH BETWEEN SHELLS****

ALL SIZES OF PRESTRUNG SHELLS ARE INTENDED TO LAST 15-20 SECONDS

ELECTRIC MATCH NOTES:

2M (ORANGE)	USE THESE FOR SETUPS, CANDLES, COMETS
3M (BLACK)	USE THESE FOR DIGITAL FIRING SYSTEMS
5M (BLUE)	USE THESE FOR CAKES AND SINGLE DEVICES
10M (ORANGE)	USE THESE FOR WATERFALL

NEVER SLIDE THE SAFETY CAP BACK FROM THE MATCH HEAD BEFORE INSERTING INTO FUSE

ELECTRICAL AND CONTINUITY NOTES:

ELECTRIC MATCH	2-3 OHMS OF RESISTANCE
24 GAUGE 2 PAIR WIRE	55 OHMS OF RESISTANCE PER 1000 FEET
25 PAIR CABLE	7-10 OHMS OF RESISTANCE PER 100 FEET

1 VOLT CAN FIRE 2 OHMS

Ex. 24 VOLT BATTERY CAN FIRE 48 OHMS, 36 VOLT BATTERY CAN FIRE 72 OHMS

BE SMART, BE SAFE, AND HAVE FUN!!!

ROUTE PLAN CHEKCLIST

SHOW : _____

Date: _____

- _____ Front Cover
- _____ Bill of Lading
- _____ Cue Sheets
- _____ Hotel Reservation (Alison)
- _____ Any Important Emails (M. Ford)
- _____ Music (if applicable) (Garrett)
- _____ Keys to any gates (if applicable)
- _____ Receipt Holder
- _____ Customer/Show Information (sales)
- _____ Route Plan / Directions
- _____ Site Diagram (sales)
- _____ Certificate of Insurance (Rigney)
- _____ Permit(s) (if applicable) (Rigney)
- _____ Regulatory Standard Information (GUTS)
- _____ Cue Logs (Separate Book if applicable) (Garrett)
- _____ OSFM Firework Checklist for NC Shows ONLY

COMPLETED : _____

Notes:

5. SHIPPING REQUIREMENTS

*** 5.1 Transportation Regulating Authorities** Transportation of fireworks is regulated by DOT. Some states and municipalities also regulate transportation of fireworks through their jurisdiction, often by incorporation of federal regulations.

*** 5.2 Approval** Except for samples prepared in accordance with DOT regulations, or unless specifically permitted by this Standard, no fireworks device or novelty may be offered for transportation or transported until it is classed and approved by DOT, and an approval number (EX number) is issued (Title 49 CFR, § 173.56.) (see chapters 3-4 and appendix D)

*** 5.2.1** EX numbers for fireworks contained in a shipping carton must be marked on the shipping carton or on the shipping paper.

*** 5.2.2** Cartons containing 5 or more different fireworks devices must be marked with at least 5 of the EX numbers covering items in the carton, or the EX numbers must appear on the shipping paper. (Title 49 CFR, §172.320(c) and (d))

*** 5.3 Packaging** With certain exceptions, Consumer Fireworks UN0336, Display Fireworks UN0335, Articles Pyrotechnic UN0431 and Novelties, must be securely packaged in containers complying with DOT regulations Title 49 CFR, § 178. Gross weight limitation per package is now dictated by the weight marked on the certified packaging. Articles with match or friction tip ignition must be packed so that each individual tip is protected against accidental contact or friction. Loose chemical composition may not be present in packages in transportation. (Title 49 CFR, §172.102(c), Special Provision (108))

*** 5.4 Placards** Unless otherwise provided, each motor vehicle, freight container and rail car must bear appropriate placards on each end and each side (Title 49 CFR, § 172.504 (a).) Vehicles containing packages of consumer fireworks or novelties which are labeled 1.4G require a 1.4G or Explosive 1.4G placard (Title 49 CFR, § 172.523,) and use of the word explosive is optional (Title 49 CFR, § 172.519(b)(3).) except highway and rail shipments of less than 1,000 pounds gross weight of such fireworks need not bear a placard (Title 49 CFR, § 172.504(c).) Vehicles containing display fireworks in any quantity require a 1.3G or Explosive 1.3G placard (Title 49 CFR, § 172.522) and use of the word explosive is optional (Title 49 CFR, § 172.519(b)(3).) If both 1.4G and 1.3G are present in a shipment, the 1.3G placard is required, and the 1.4G placard is not needed.

*** 5.5 Package Marking and Labeling** Each person who offers fireworks for transportation shall ensure that the package displays the appropriate square-on-point label (Title 49 CFR, § 172.400(a) and 172.411.) Use of the word explosive on the 1.3G and 1.4G labels is not required (Title 49 CFR §172.405(a).) Consumer fireworks, toy smoke devices, and trick noisemakers are either classed as 1.4G, 1.4S, or not regulated for transportation purposes. Display fireworks are classed as 1.3G (Title 49 CFR, § 172.101.) The label must be printed or affixed to the surface of the package near the proper

§172.519 General specifications for placards.

(a) *Strength and durability.* Placards must conform to the following:

(1) A placard may be made of any plastic, metal or other material capable of withstanding, without deterioration or a substantial reduction in effectiveness, a 30-day exposure to open weather conditions.

(2) A placard made of tagboard must be at least equal to that designated commercially as white tagboard. Tagboard must have a weight of at least 80 kg (176 pounds) per ream of 610 by 910 mm (24 by 36-inch) sheets, waterproofing materials included. In addition, each placard made of tagboard must be able to pass a 414 kPa (60 p.s.i.) Mullen test.

(3) Reflective or retroreflective materials may be used on a placard if the prescribed colors, strength and durability are maintained.

(b) *Design.* (1) Except as provided in §172.332 of this part, each placard must be as described in this subpart, and except for size and color, the printing, inner border and symbol must be as shown in §§172.521 through 172.560 of this subpart, as appropriate.

(2) The dotted line border shown on each placard is not part of the placard specification. However, a dotted or solid line outer border may be used when needed to indicate the full size of a placard that is part of a larger format or is on a background of a non-contrasting color.

(3) For other than Class 7 or the DANGEROUS placard, text indicating a hazard (for example, "FLAMMABLE") is not required. Text may be omitted from the OXYGEN placard only if the specific identification number is displayed on the placard.

(4) For a placard corresponding to the primary or subsidiary hazard class of a material, the hazard class or division number must be displayed in the lower corner of the placard. However, a permanently affixed subsidiary placard meeting the specifications of this section which were in effect on October 1, 2001, (such as, a placard without the hazard class or division number displayed in the lower corner of the placard) and which was installed prior to September 30, 2001, may continue to be used as a subsidiary placard in domestic transportation by rail or highway, provided the color tolerances are maintained and are in accordance with the display requirements in this subchapter.

(c) *Size.* (1) Each diamond (square-on-point) placard prescribed in this subpart must measure at least 250 mm (9.84 inches) on each side and must have a solid line inner border 12.5 mm inside and parallel to the edge. The 12.5 mm measurement is from the outside edge of the placard to the outside of the solid line forming the inner border.

(i) *Transitional exceptions.* A placard in conformance with the requirements of this paragraph in effect on December 31, 2014, may continue to be used until December 31, 2016.

(ii) For domestic transportation, a placard manufactured prior to January 1, 2017 in conformance with the requirements of this paragraph in effect on December 31, 2014, may continue in service until the end of its useful life provided the color tolerances are maintained and are in accordance with the display requirements of this subchapter.

(2) Except as otherwise provided in this subpart, the hazard class or division number, as appropriate, must be shown in numerals measuring at least 41 mm (1.6 inches) in height.

(3) Except as otherwise provided in this subpart, when text indicating a hazard is displayed on a placard, the printing must be in letters measuring at least 41 mm (1.6 inches) in height.

(d) *Color.* (1) The background color, symbol, text, numerals and inner border on a placard must be as specified in §§172.521 through 172.560 of this subpart, as appropriate.

(2) Black and any color on a placard must be able to withstand, without substantial change—

(i) A 72-hour fadeometer test (for a description of equipment designed for this purpose, see ASTM G 23-69 or ASTM G 26-70); and

(ii) A 30-day exposure to open weather.

(3) Upon visual examination, a color on a placard must fall within the color tolerances displayed on the appropriate Hazardous Materials Label and Placard Color Tolerance Chart (see §172.407(d)(4)). As an alternative, the PANTONE® formula guide coated/uncoated as specified for colors in §172.407(d)(5) may be used.

(4) The placard color must extend to the inner border and may extend to the edge of the placard in the area designated on each placard except the color on the CORROSIVE and RADIOACTIVE placards (black and yellow, respectively) must extend only to the inner border.

(e) *Form identification.* A placard may contain form identification information, including the name of its maker, provided that information is printed outside of the solid line inner border in no larger than 10-point type.

(f) *Exceptions.* When hazardous materials are offered for transportation or transported under the provisions of subpart C of part 171 of this subchapter, a placard conforming to the specifications in the ICAO Technical Instructions, the IMDG Code, or the Transport Canada TDG Regulations (IBR, see §171.7 of this subchapter) may be used in place of a corresponding placard conforming to the requirements of this subpart. However, a bulk packaging, transport vehicle, or freight container containing a material poisonous by inhalation (see §171.8 of this subchapter) must be placarded in accordance with this subpart (see §171.23(b)(10) of this subchapter).

(g) *Trefoil symbol.* The trefoil symbol on the RADIOACTIVE placard must meet the appropriate specification in appendix B of this part.

[Amdt. 172-123, 55 FR 52601, Dec. 21, 1990, as amended at 56 FR 66260, Dec. 20, 1991; 57 FR 45460, Oct. 1, 1992; Amdt. 172-143, 60 FR 50305, Sept. 28, 1995; 65 FR 50460, Aug. 18, 2000; 66 FR 33426, June 21, 2001; 66 FR 44255, Aug. 22, 2001; 67 FR 15743, Apr. 3, 2002; 70 FR 34075, June 13, 2005; 69 FR 64473, Nov. 4, 2004; 72 FR 25176, May 3, 2007; 76 FR 43528, July 20, 2011; 76 FR 56314, Sept. 13, 2011; 80 FR 1151, Jan. 8, 2015]

EMERGENCY RESPONSE INFORMATION

FIREWORKS, UN0335, EXPLOSIVE 1.3G

No chemical composition is release or exposed during normal handling, storage, and transportation. In the event of a vehicle fire that reaches the cargo area, the fireworks are likely to ignite. The individual fireworks will explode rapidly, spreading burning particles over a several hundred foot area. A mass explosion is possible, particularly with large quantities of fireworks, and precautions should be taken in the even that one does occur. Smoke and potentially irritation gasses will be produced in a fire. If the Fireworks are spilled as the result of an accident but do not ignite, they can safely be picked up and repackaged. The area should be kept cleared of unnecessary people while this is being done.

EMERGENCY ACTION

In case of fire, stop traffic and begin to clear the area for 2500 feet (1/2 mile) in all directions. Keep unnecessary people away.

Do not fight fire in cargo area. Try to prevent other types of fire form reading the cargo area. Self-contained breathing apparatus (SCBA) and structural firefighter's protective clothing will provide some limited protection. Firefighters should retreat if fire approaches cargo area.

FOR EMERGENCY RESPONSE INFORMATION DURING TRANSPORTATION CALL :

MONDAY – FRIDAY 8:00 AM TO 5:00 PM ESATERN TIME 1-800-238-5114. (PYRO SHOW'S EAST COAST OFFICE)

ALL OTHER TIMES: 1-800-255-3924

(ChemTel, Inc. Emergency Response Assistance Contract # MIS2595697)

FIRE

Truck Fire: (other than cargo area): Flood with water. Tire fires may start again. Unhook and separate tractor from trailer, if possible.

Cargo Fire: **DO NOT** move cargo or vehicle if cargo has been exposed to heat.

DO NOT fight fire if and when it reaches cargo. Withdraw from area and let fire burn. Use firefighting team to prevent spread of fire to adjacent structures and materials.

Promptly isolate the scene by removing all persons from the vicinity of the incident. First, move people out of the line of sight of the scene and away from windows. Obtain more information from competent authorities listed on the shipping papers.

SPILL OF CARGO

Shut of all ignition sources. There shall be not flares, smoking, tools capable of producing sparks, or flames in the vicinity of the spilled material. Cautiously pick up the spilled devices and place them in cardboard cartons.

FIRST AID

Call emergency medical care. Use first aid treatment according to the nature of the injury.

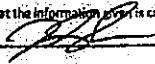
100 Air Mile Daily Driver Record

NAME:	Jesse Salverson
TRUCK #:	P-36
Trailer #:	PST-15

CITY, STATE: LaFollette, TN

☒ EQUIPMENT
☐ 1.4G
☒ 1.3G

SHIPPER'S # / BOL: 17-TN-584-346-1	
NAME OF DISPATCHER: Keyser, Suttles	
DEPARTURE TIME	ARRIVAL TIME
8:00 AM	9:45 AM

DRIVER STATEMENT OF ON-DUTY / WORK HOURS							
Record of all hours for any compensated work during the preceding 7 days including non-driving work.							
Day # 1 = Yesterday	1	2	3	4	5	6	7
WEEKDAY:	Fri	TH	Wed	Tues	Mon	Sun	Sat
DATE:	1-12-18	1-11-18	1-10-18	1-9-18	1-8-18	1-7-18	1-6-18
TIME: Reported to Duty	8:00	8:00	8:00	8:00	8:00	N/A	N/A
TIME: Relieved from Duty	4:00	4:00	4:00	4:00	4:00	N/A	N/A
TOTAL HRS PER DAY WORKED:	8	8	8	8	8	8	8
TOTAL WEEKLY HOURS WORKED (add days 1-7 totals):							56
I hereby certify that the information above is correct to the best of my knowledge and belief.							
SIGNATURE: 						TODAY'S DATE: 1-13-18	

☒ I AM DRIVING UNDER THE SHORT HAUL EXEMPTION - SEE RECORDS BELOW (100 Air Miles)
☐ I AM DRIVING UNDER THE TRAILER 8-DAY SHORT TERM RENTAL EXEMPTION (Rental Trucks)
☐ I AM DRIVING UNDER THE 8 DAY ELD EXEMPTION - SEE ATTACHED LOG (8 Day Rule)
☐ I AM DRIVING USING A REQUIRED ELD

PYRO SHOWS, INC.

Hours of Service Policy & Disciplinary Program

This policy and disciplinary program is intended to keep Pyro Shows' drivers and their surroundings safe, while also complying with FMCSA regulation-CFR Part 395.

Hours of Service Policy

- Drivers may drive a total of 11 hours in one day.
- Drivers may not drive after the 14th hour of "on duty" time. Therefore, drivers can log more than 14 hours of "on duty" time in one day, so long as the driver does not do any CMV driving after the 14th hour of "on duty" time.
- At the conclusion of each day, drivers must have 10 or more hours "off duty" before they can return to "On Duty" or "Driving" status.
- Drivers may be "on duty" for a total of 60 hours in a 7 day period or 70 hours in an 8 day period. Once the driver has reached his total number of hours(60 in 7 days or 70 in 8 days), he may restart his driving period after 34 consecutive hours of "off duty" time.
- Pyro Shows' management must confer with drivers before sending them on the road to verify they have enough available hours to complete the task at hand.

Drivers' Logs

- Drivers' logs must be neat and legible, filled out correctly, and signed.
- Drivers must show 7 days prior to the current day.
- At each stop or change of duty status, the log must be updated.
- Logs should reflect breaks, fuel stops, inspections, etc. Mileage is encouraged to be logged at each change of duty status. The town and state where the change of duty status occurs must be logged.
- Driver logs must be turned in no later than 1 week after the end of a route/trip.
- When turning in logs to office administration, copies of supporting documents (fuel receipts, hotel bills, credit card statements, inspections, etc.) should be made and kept in that particular driver's DQ file.
- In a team driver scenario, both drivers must keep separate logs. Both logs must coincide and agree with each other.

Hours of Service Disciplinary Program

- Pyro Shows Management will check driver's logs to ensure compliance with Pyro Shows' Hours of Service Policy.
- Drivers will be notified if their log book is in violation of Pyro Shows' Hours of Service Policy.
- Drivers will be instructed on how to prevent a violation in the future.
- If errors and violations continue concerning hours of service/log books, appropriate disciplinary action will result based on Pyro Shows' discretion.

COBRA Common Troubleshooting Reference

The purpose of this document is to outline the common troubleshooting issues per device.

Device	Issue	Solution
Any	Er3 displaying on 7-segment displays	This is a stuck button error code. Make sure no buttons are pressed while the unit is powering on.
Any	Units not SYNCED or SYNCING	Please see http://www.cobrafiringsystems.com/sync to learn how to sync. Follow this procedure closely as it's commonly minor user error when this fails to occur.
Module	Er1 or Er2 displaying on 7-segment displays	1) Check battery orientation and power levels. 2) Confirm correct voltage mode. This is the number (9.0, 12.0, 14.8, 18.0, or 24.0) that displays during power up. 9V modules should display 9.0. LiPo modules should display 14.8. To change, press TEST and CH+ or TEST and CH- to toggle the mode. Re-start the module. 3) If 2P0 displays during power up AND module has cues wired, try to remove wired cues as you may have a bad cue. If error does not appear if that cue is not wired, then please don't use this cue during the show.
Module	Er5 displaying on 7-segment displays	Re-sync the module to the remote. See http://www.cobrafiringsystems.com/sync . If this does not resolve issue, confirm the firmware versions match on the remote and module. These are the first three numbers displayed when powering on.
Remote	Key switch broken	If you broke the key switch on the remote, it can be hot-wired as a short term solution. To perform this, remove the back half enclosure and cut the two wires that goto the key switch. Then, strip back the insulation, connect the wires, and use tape to shield them. You can insert the batteries into the remote to power on.
Remote	Lo repeatedly flashing	1) If Lo flashes and an A## value does not display after, then your 18R or 18R2 has a power level of P3 or lower. Replace your remote batteries. 2) If Low flashes followed by A##, then the module with address A##, for example, A01, has a 1P3 or lower. Check and replace the 1P battery. To determine address on a module, press and release the TEST button on the module.
Remote	ARM LED does not stop blinking on 18R or 18R2	This means that one or more modules that were recognized in TEST mode, are not acknowledging as armed in ARM mode. When this happens, the 18R or 18R2 will display the module address as A## to inform you which module is not armed. To determine a module's address, press TEST on the module. This can occur for one of the following reasons: 1) The module key is in the TEST and not ARM position. 2) If you are running 5.0.0 or 5.0.2, power off and on the module.. 3) The module key is in the ARM position, but there is something wrong with the key switch that makes the module think it's key is in the TEST position. If you restart the module in ARM and the 1-18 LEDs display all green and all red, then it thinks the key is in the TEST position. You need to swap the key switch, module, or hot-wire the module. See http://www.cobrafiringsystems.com/hotwire18m.jpg.
Remote	Lo Ant repeatedly displaying	This means that one or more of your modules have a low signal. 0 is perfect signal, -99 is bad signal. If you are running 4.0.0, this displays for any signal between -65 and -99. If you are running 5.0.0+, this displays for any signal between -75 and -99. Any signal between 0 and -75 is acceptable. After Any is displayed, the module address is displayed to identify which module has low signal. In 5.0.0+, the module address and then channel is displayed. To resolve, find the module in question and try to improve line of site by raising the module removing barriers, and obtaining better line of site. Confirm the antenna is tight, try replacing the antenna. If you are operating 5.0.0+, you can use other modules as signal repeaters to improve signal.

Device	Issue	Solution
Remote	Green continuity LEDs blinking	This occurs when you have multiple modules on the same channel and partial continuity on each module. This is normal behavior assuming you intentionally have multiple modules on the same channel. To view continuity on each module, repeated press the TEST button on the 18R2 and the module address and associated continuity will display. To determine a module's address, press TEST on the module.
Remote	PAU displaying when trying to start the script	It's likely that you are running 5.0.0 or greater and you had defined a trigger confirmation in your script. In 5.0.0+, this argument is now the deadman argument. This was likely not intended, but in order for the script to fire, you need to press and hold the confirmation / deadman button throughout the script.
Remote	All LEDs go red and Er 50 is displayed when syncing	You have maxed out the total number of module addresses (200) which you can SYNC to a remote. You need to force un-sync the remote only, then re-sync your modules. The instructions to perform this on the 18R or 18R2 varies by firmware version. In 3.0.3 or earlier, press SYNC for 10+ seconds. In 4.0.0, press SYNC for 30+ seconds. In 5.0.0+, press CH+ and CH- for 30+ seconds. In all cases, the SYNC LED will flash a few times when complete. Once done, re-sync your units.
Remote	SP displaying at bottom of 18R2 when script is started or playing	This means the script has a STEP event defined and the STEP button must be pressed to fire the current event in the script.
Remote	No modules appearing on 18R2	This can happen for several reasons. 1) When the 18R2 first arms, it's common to see 0 appear on the 18R2 and for this to repeat for a while. If you have higher module counts, this is normal as the 18R2 ARM LED will blink. You should have all modules appear in about 1-2 seconds per module. Be patient and wait for the modules to load. 2) Confirm your modules are in SYNC. The SYNC LED should be blinking on the modules. If not, see http://www.cobrafiringsystems.com/sync 3) If you are running 5.0.0, if no modules load or if all modules are not responding, please power off all modules and the 18R or 18R2. Then, power on your systems from scratch.
Remote	Script not starting	Make sure the script designer has provided you the correct trigger channel and that your 18R2 is on the correct channel. If the script was created with Finale Fireworks, the trigger channel is c00 and the trigger button is 1. Make sure your remote is on channel 00 and not 01 if this is the case.
Audio Box	Audio Box	The audio file and 18R2 should be dry run before every show. If this did not occur, there are a few reasons why the Audio Box may not be starting with the script. 1) If your running 3.0.3, the audiofile must be named audiobox.mp3. In some cases, users will type the .mp3 extension into the filename causing this to be audiobox.mp3.mp3. Make sure the .mp3 does not exist in the filename. 2) If you are running 4.0 or greater, make sure the audio filename defined in the script, matches the audio filename on the USB drive. Also, make sure the total characters of the filename are less than 12 characters including the .mp3 extension. Also, make sure there are no spaces or special characters in the filename. 3) The audio .mp3 file was not properly formatted using Audacity per the audio box instructions. See the appendix in http://www.cobrafiringsystems.com/static/userguides/COBRAAudioBoxDetailedUserGuide.pdf. In the worst case situation, you can press the AUDIO TEST button on the audio box to start the audio. If this does not play the audio, make sure the audiofile is named audiobox.mp3 as stated in #1 above.

COBRA Show Problem - What to do?

The purpose of this document is provide instructions on how to best handle any type of issue on your show. Issues can be caused by the operator, equipment, environment or other factors. It's important to treat the shoot site as a crime scene so that you can have as much information as possible to allow us to work with you to resolve the issue.

What was the problem?

Please try to describe as best as possible what issue happened during the show. For example, did a module not fire, did a cue not fire? Please use as much description as possible to detail the issue down to the specific cue #, module address, or whatever may be relevant.

In order to have as much evidence / information as possible, please perform the following steps:

Label / Quarantine the Equipment

Place a piece of tape and use a marker to label any equipment with the specifics of what did not happen. For example, label a module "Cue #1 did not fire".

Save the E-matches or Talons

Save any e-matches, MJG initiators, or Talon igniters that may not have fired. We will want to test these afterwards.

Take a Video

Use your camera phone to take a video of the module, remote, or any equipment as the problem happens, or after the problem happens. Small details such as a crossed wire, error codes, or information displayed on the module can be critical to resolving.

Keep the Batteries

Do not throw away the batteries or remove them from the module in order to preserve their original 1P or 2P locations. We will want to test these later.

Do not Re-sync or Clear any Scripts from Remote

Do not un-sync, re-sync, or clear any scripts from the remote. Keep the remote as-is and don't make any changes. We'll want to test everything as it was during the show.

Re-call Information and Write it Down

Re-call the events of the show leading into the issue and make detailed notes as soon as possible. Our memories may change as time goes on and it's critical to note everything immediately.

Contact Scott Smith at ssmith@cobrafiringsystems.com or 518-222-7410

Contact Scott to provide him this information. He can help you by asking the correct questions and providing further assistance to ensure we can avoid any further issues, whether operator or equipment. He is genuinely interested in helping as he is on our team.

SAFETY DATA SHEET

Conforms to OSHA'S Hazard Communication Standard 29 CFR 1910.1200

Section I-Identification

FIREWORKS 1.3G UN0335

Manufacturer Name and Address

Dancing Fireworks Group Co. Ltd.
Lihua Village, Yanxi Town, LiuYang, Hunan, China

ChemTel 24 Hour

Emergency Response: Domestic: 1-800-668-7809
International: 1-800-668-7809

Telephone Number: 86-731-83666268

Data Prepared: May 31st, 2015

Section II-Hazard(s) Identification



DANGER: Explosive; fire, blast or projection. Keep away from heat/sparks/open flames/hot surfaces. No Smoking. Contains pyrotechnic composition; a solid mixture of oxidizer and fuel that burns if ignited. These items are classified as Fireworks, 1.3G, UN0335, PGII, Explosives by the U.S. Department of Transportation. No chemical components are released during normal handling and storage of shells. During function, gases and smoke are produced that may contain various oxides, chlorides, and other gaseous and particulate products.

SECTION III-Composition/Information on Ingredients

Exact Percentage (Concentration) of composition has been withheld as a trade secret, and or is used for a group of substantially similar mixtures:

Red Star: Potassium Perchlorate, Magnalium, Resinox, Strontium Carbonate, Shellac, Polyvinyl chloride.

Green Star: Potassium Perchlorate, Barium Nitrate, Magnalium, Charcoal, Resinox, Polyvinyl chloride.

Blue Star: Potassium Perchlorate, Sulfur, Magnalium, Copper Oxide, Resinox.

Yellow Star: Potassium Perchlorate, Strontium Carbonate, Magnalium, Resinox, Cryolite.

Purple Star: Potassium Perchlorate, Strontium Carbonate, Magnalium, Resinox, Copper Oxide, Polyvinyl chloride, Shellac.

Silver Star: Potassium Perchlorate, Aluminum, Magnalium, Resinox.

White Star: Potassium Perchlorate, Magnalium, Resinox.

Gold Star: Potassium Perchlorate, Charcoal, Magnalium, Resinox, Polyvinyl chloride, Cryolite.

Light Blue Star: Potassium Perchlorate, Charcoal, Magnalium, Resinox, Polyvinyl chloride, Copper Oxide.

Sea Blue Star: Potassium Perchlorate, Barium Nitrate, Magnalium, Resinox, Copper Oxide, Chlorinated Rubber.

Lemon Star: Potassium Perchlorate, Barium Nitrate, Charcoal, Magnalium, Resinox, Polyvinyl chloride, Cryolite.

Pink Star: Potassium Perchlorate, Magnalium, Resinox, Strontium Carbonate, Sulfur, Polyvinyl chloride, Copper Oxide, Shellac.

Orange Star: Potassium Perchlorate, Strontium Carbonate, Magnalium, Resinox, Polyvinyl Chloride, Shellac, Cryolite.

Aqua Star: Potassium Perchlorate, Barium Nitrate, Magnalium, Resinox, Copper Oxide, Chlorinated Rubber.

Chrysanthemum: Potassium Perchlorate, Potassium Nitrate, Sulfur, Charcoal, Flour.

Crossette: Potassium Perchlorate, Sulfur, Magnalium, Charcoal, Potassium Nitrate.

Salute: Potassium Perchlorate, Sulfur, Magnalium, Titanium.

Wave: Potassium Perchlorate, Sulfur, Magnalium, Charcoal, Cryolite.

Silver Crown: Potassium Perchlorate, Magnalium, Aluminum, Resinox.

Brocade crown: Potassium Nitrate, Sulfur, Charcoal, Dextrine, Titanium.

Crackling: Magnalium, Flour, Copper Oxide, Bismuth Oxide.

Time Rain: Magnalium, Flour, Copper Oxide, Bismuth Oxide, Titanium.

Red Gamboge: Potassium Perchlorate, Potassium Nitrate, Sulfur, Charcoal.

Diadem Chrys.: Potassium Nitrate, Sulfur, Charcoal.

Red Gamboge Crown: Potassium Perchlorate, Sulfur, Charcoal, Flour.

Gold Willow: Potassium Perchlorate, Sulfur, Charcoal.

Coconut Tree: Potassium Nitrate, Sulfur, Charcoal, Magnalium, Titanium.

Strobe: Potassium Perchlorate, Potassium Nitrate, Barium Nitrate, Sulfur, Charcoal, Magnalium, Flour, Copper Oxide.

Gold Kamuro: Potassium Nitrate, Sulfur, Charcoal, Magnalium, Resinox.

Fish: Potassium Perchlorate, Barium Nitrate, Magnalium, Resinox, Cryolite.

Bee: Potassium Perchlorate, Magnalium, Resinox, Aluminum.

Falling Leaves: Potassium Nitrate, Sulfur, Aluminum, Magnalium, Resinox.

Boiling Point: N/A

Vapor Pressure (mm Hg.): N/A

Vapor Density (Air=1): N/A

Solubility in Water: Slight

Appearance and Odor: All pyrotechnic composition is contained within hard cardboard or paper casings that may be shaped as cylinders, balls or tubes.

Specific Gravity (H₂O=1): N/A

Melting Point: N/A

Evaporation Rate (Butyl Acetate=1): N/A

Section IV-First Aid Measures

Call emergency medical care. Use first aid treatment according to the nature of the injury.

Section V-Fire-Fighting Measures

In case of fire, evacuate area. Do NOT fight fire when fire reaches explosives. Explosion risk in case of fire.

Truck fire (other than cargo area): Flood with water. Tire fires may re-start. If possible, unhook and separate tractor from trailer. Remove vehicle that is not involved in fire from fire area if you can do so without risk. If cargo area is exposed to heat and flames, direct water spray on outside of container to cool it down. Continue to spray until well after the fire is out.

Cargo fire **Do not** move cargo or vehicle if cargo has been exposed to heat. Withdraw from area if and when the fire reaches cargo and let fire burn. Use firefighting team to prevent spread of fire to adjacent structures and materials. Promptly isolate the scene by removing all persons from the vicinity of the incident. First, move people out of line-of-sight of the scene and away from windows. Obtain more information from appropriate authorities listed on the shipping papers.

Self-contained breathing apparatus (SCBA) and structural firefighter's protective clothing will provide some limited protection. Firefighters should retreat if fire approaches cargo area, and use unmanned hose holder to direct water spray on fire.

For additional information, call the shipper using the emergency telephone number listed on the shipping papers; if there is no answer; call American Pyrotechnics Association's 24-hour number (800-255-3924).

Section VI-Accidental Release Measures

Cargo Spill: ELIMINATE all ignition sources. There shall be no flares, smoking, and tools capable of producing sparks, or flames in the vicinity of the spilled material. Cautiously pick up the spilled devices and place them in cardboard cartons. Do not touch or walk through spilled material.

Waste Disposal Method: Soak any exposed chemical composition with water; sweep up with natural fiber brush and dispose of by burning in compliance with local, state, and federal regulations.

Section VII-Handling and Storage

Keep fireworks cool, dry, and well ventilated area. Avoid impact with shipping cartons. Fireworks must be stored and transported in accordance with local, state, and federal regulations. Protect against physical damage and moisture. Fireworks should be isolated from all heat sources, sparks, and open flames. No smoking.

Other Precautions: Fireworks 1.3G UN0335 can cause serious injury or death. They should only be handled by properly trained and qualified personnel. When shooting these fireworks, personnel should wear proper eye protection, head protection and non-synthetic clothing.

Section VIII-Exposure Controls/Personal Protection

Respiratory Protection (Specify Type): None when handling finished item.

Ventilation: N/A

Local Exhaust: N/A

Mechanical (General): N/A

Special: N/A

Other: N/A

Protective Gloves: None required

Eye Protection: When shooting Fireworks 1.3G

Other Protective Clothing and Equipment: Protective head gear and non-synthetic clothing when shooting fireworks 1.3G

Section IX-Physical and Chemical Properties

Boiling Point: N/A

Specific Gravity (H2O=1): N/A

Vapor Pressure (mm Hg.): N/A

Melting Point: N/A

Vapor Density (Air=1): N/A

Evaporation Rate (Butyl Acetate=1): N/A

Solubility in Water: Slight

Appearance and Odor: All pyrotechnic composition is contained within hard cardboard or paper casings that may be shaped as cylinders, balls or tubes.

Flash Point: N/A

Flammable Limits: N/A

LEL: N/A

UEL: N/A

Extinguishing Media: Do not attempt to fight fire in the vicinity of display fireworks – evacuate area. Materials are self-oxidizing.

Special Fire Fighting Procedures: Evacuate fire area immediately and seek shelter. Follow established emergency action plan.

Unusual Fire and Explosion Hazards: Display fireworks may mass explode in a fire situation.

Section X-Stability and Reactivity

Stability: Stable

Conditions To Avoid: Storage at temperatures above 120° F. Open flames, smoking, moisture, friction or impact in the vicinity of stored fireworks.

Incompatibility (Materials to Avoid): Do not allow fireworks to get wet.

Hazardous Decomposition or Byproducts: Smoke generated during use of devices may contain small amounts of carbon

monoxide, hydrogen sulfide, and nitrogen oxides. Avoid prolonged inhalation.
Hazardous Polymerization: Will not occur

Section XI-Toxicological Information

Route(s) of Entry: Inhalation? N/A Skin? N/A Ingestion? N/A

Health Hazards (Acute and Chronic): Exposure to finished items does not pose any health hazard. However, ground level smoke generated during shooting of public displays may contain gasses which may cause irritation of eyes or mucous membrane. Prolonged inhalation of smoke should be avoided.

Carcinogenicity: No **NTP?** No **ARC Monographs?** No **OSHA Regulated?** No

Signs and Symptoms of Exposure: Prolonged exposure to smoke generated during shooting of shells may cause shortness of breath and irritation of eyes and mucous membranes.

Medical Conditions Generally Aggravated by Exposure: Persons with pre-existing respiratory conditions (i.e. asthma, emphysema, etc.) should avoid inhalation of smoke.



VELVET SHIELD

CARBONIZED FIBER WELDING PROTECTION

Welding Blanket

Lightweight, soft and flexible Welding Blanket material, providing incredible ease of use, while withstanding high heat.*

- Velvet Shield® welding blankets are made with a carbonized fiber fabric that was developed from NASA technologies and is fire and heat resistant.
- Versatile blankets are soft and lightweight, providing incredible ease-of-use.
- Provides protection from sparks and spatter.
- Easy to clean; just shake, vacuum or blow metal particles out.
- Available in several stock Blanket sizes, 18"x18" Pad, and 50-yard rolls.

Operating Temperature 1800° F

**Also available:
18" x 18"
Velvet Shield
Pad**



**The softest
and toughest
welding
protection ever
— up to
1800°F**

Material	Size
316	6' x 8'
Part No.:	
316-6X8 (31686)	

Approved Welding Pad



Steiner Industries 5801 North Tripp Avenue Chicago, IL 60646-6013

Phone: (800) 621-4515 Fax: (773) 588-3450

info@steinerindustries.com www.steinerindustries.com

* NOTE: See back for instructions and warnings.

VELVET SHIELD PRODUCTS

INSTRUCTIONS FOR USE:

- 1) Velvet Shield® products are designed to be used only for welding, brazing and soldering. The material is not intended for use in high soaking temperatures (i.e. ovens or confined spaces where temperatures exceed 200°F) OR severe use conditions where excessive molten metal slag or heavy grinding operations would cause the blanket or pad to exceed their maximum use temperature.
- 2) Carefully check to be sure that the areas to be protected are completely covered and sparks cannot get under the blanket or pad.
- 3) Check the blanket or pad for holes or tears that would allow sparks to reach the area being protected.
- 4) Avoid contact with flammable liquids that would ignite if exposed to sparks, spatter or heat.
- 5) Do not clean with water or other liquids.
- 6) Velvet Shield® products must be positioned at least one foot away from the welding torch.
- 7) Not recommended for grinding applications as metal shavings and particles are easily embedded within the Velvet Shield® material.

WARNING:

VELVET SHIELD® BLANKETS, PADS AND/OR ROLLS SHOULD BE USED AS WELDING BLANKETS, PADS OR ROLLS ONLY. THEY ARE NOT INTENDED FOR USE IN STRESS RELIEF, HEAT TREATING, AS AN INSULATOR, OR ANY OTHER APPLICATION, OTHER THAN WELDING APPLICATIONS.

VELVET SHIELD® PRODUCTS SHOULD NOT BE EXPOSED TO TEMPERATURES EXCEEDING 200°F FOR EXTENDED PERIODS. THE VELVET SHIELD® PRODUCT SHOULD NOT BE DIRECTLY EXPOSED TO, OR IN DIRECT CONTACT WITH, THE PRIMARY HEAT SOURCE.

DO NOT USE A VELVET SHIELD® PRODUCT WHEN WET. IT WILL CONDUCT HEAT AND ELECTRICITY.

USE CAUTION TO PREVENT VELVET SHIELD® PRODUCTS FROM COMING INTO ACCIDENTAL CONTACT WITH FLAMMABLE LIQUIDS THAT WOULD IGNITE IF EXPOSED TO SPARKS.

OXY-FUEL OR THE PLASMA CUTTING PROCESS FLAME, PILOT ARC AND CUTTING STREAM GENERATE TEMPERATURES ABOVE 3000°F, WELL ABOVE THE MAXIMUM RATING OF THE VELVET SHIELD MATERIAL.

Use of this product in a manner not consistent with the operating instructions may cause product failure. Highly localized concentrations of molten metal, grinding particles or debris may cause product failure and may support combustion.

* Maximum allowable service temperature is 1800°F, and 3000°F for short duration.

DISCLAIMER:

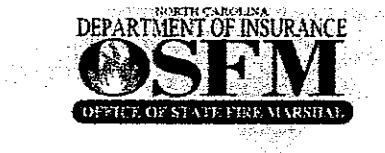
THIS PRODUCT IS WARRANTED TO BE FREE FROM DEFECTS IN MANUFACTURING ONLY. BECAUSE APPLICATIONS VARY, THE USER MUST DETERMINE PRODUCT SUITABILITY FOR A SPECIFIC APPLICATION AND THE USER ASSUMES ALL RISKS IN CONNECTION THEREWITH. A CAREFUL ANALYSIS SHOULD BE MADE BEFORE SELECTING PROTECTIVE EQUIPMENT FOR EACH PARTICULAR APPLICATION. AS A RESULT OF ONGOING RAW MATERIAL SPECIFICATION CHANGES, RECOMMENDED APPLICATIONS, TEMPERATURES AND OTHER STATED SPECIFICATIONS ARE PRESENTED AS GENERAL GUIDELINES ONLY AND ARE PROVIDED WITHOUT ANY GUARANTEE OR RESPONSIBILITY ON THE PART OF STEINER INDUSTRIES. STEINER INDUSTRIES RESERVES THE RIGHT TO CHANGE RECOMMENDATIONS AND SPECIFICATIONS AS FURTHER KNOWLEDGE IS GAINED. WHILE STEINER INDUSTRIES BELIEVE ALL OF THE INFORMATION TO BE CORRECT, IT IS NOT RESPONSIBLE FOR TYPOGRAPHICAL ERRORS.

If you have any questions, contact Steiner Industries, Inc. at (800) 621-4515 for Velvet Shield® Material Safety Data Sheets or visit our website at www.steinerindustries.com.

Steiner Industries 5801 North Tripp Avenue Chicago, IL 60646-6013
Phone (800) 621-4515 Fax (773) 588-3450
info@steinerindustries.com www.steinerindustries.com

Approved Welding Pad





Fireworks Display Checklist (Operator)

Display Pre-Set Up	1. County permit has been approved and issued.	☐
	2. Confirm actual measurements of the display site match measurements submitted on the county permit application and distances are appropriate for the sizes of devices being used.	☐
	3. Confirm there are no additional hazards located in or near the display site.	☐
	4. The location of the spectator area meets the required distances.	☐
	5. Ensure all smoking materials, matches, lighters, or open flames are prohibited within 50 feet of fireworks.	☐
	6. All North Carolina Office of State Fire Marshal issued permits are visible.	☐
	7. All assistants are permitted or on-site certified.	☐
Display Set Up	8. All fireworks, launch equipment, and pyrotechnic materials are protected from inclement weather and kept dry at all times.	☐
	9. Ensure only authorized personnel are allowed at the discharge site during set up.	☐
	10. No personnel at the discharge site are under the influence of alcohol, narcotics, or medication that could adversely affect judgment, mobility, or stability.	☐
	11. Verify all personnel are aware of and follow safe handling practices and loading procedures for all pyrotechnic devices.	☐
	12. Verify no sources of ignition are present in the discharge site. Hazards for electrically fired displays may include exposed battery terminals, cell phones, or other electronic or rechargeable devices. Wireless remotely fired displays may be sensitive to other radio frequency (RF) generating devices such as cell phones or two-way radios.	☐
	13. All mortars and racks are made of approved materials, and are of sufficient strength, length, and durability to allow shells to be propelled to safe deflagration heights.	☐
	14. All shells properly fit mortars and all larger shells are pre-loaded as required.	☐
	15. All mortars, mortar racks, bundles, pre-loaded box items, cakes, candles, and ground displays are thoroughly inspected and deemed inherently stable.	☐



Fireworks Display Checklist - continued (Operator)

Display Firing	16. No personnel at the discharge site are under the influence of alcohol, narcotics, or medication that could adversely affect judgment, mobility, or stability.	☐
	17. Verify all personnel understand their assigned duties and responsibilities during the display.	☐
	18. Ensure only necessary personnel are located within the discharge area while the display is in progress.	☐
	19. Only flashlights or other non-incendive lighting devices are used in firing and ready box areas.	☐
	20. Personnel in the discharge area are wearing long-sleeved and long-legged clothing made of cotton, wool or similar flame resistant cloth.	☐
	21. Personnel in the discharge area are using all required personal protective equipment including head, eye, hearing, and foot protection.	☐
	22. Fire service and EMS are present and in appropriate locations.	☐
Post-Display	23. Verify access to the display site is restricted and that no unauthorized persons or vehicles are located within the display site.	☐
	24. Verify sources of ignition are terminated such as fusees or portfires are extinguished or electrical firing panels are disconnected.	☐
	25. Confirm display site access remains restricted while being inspected for unfired or malfunctioned pyrotechnic devices.	☐
	26. All discharge areas are treated as if unfired or malfunctioned pyrotechnic devices are present.	☐
	27. After adequate time has elapsed all mortars, box items, cakes, candles, and ground display pieces are cautiously inspected for any unfired pyrotechnic devices.	☐
	28. Any unfired or malfunctioned pyrotechnic devices are properly handled and/or properly packaged for return to the supplier.	☐

SAFETY REGULATIONS PART 397

General

§397.2 Compliance with Federal motor carrier safety regulations.

A motor carrier or other person to whom this part is applicable must comply with the rules in Part 390 through 397, inclusive, of this subchapter when he/she is transporting hazardous materials by a motor vehicle which must be marked or placarded in accordance with §177.823 of this title.

[37 FR 18080, Sept. 7, 1972]

§397.3 State and local laws, ordinances and regulations.

Every motor vehicle containing hazardous materials must be driven and parked in compliance with the laws, ordinances, and regulations of the jurisdiction in which it is being operated, unless they are at variance with specific regulations of the Department of Transportation which are applicable to the operation of that vehicle and which impose a more stringent obligation or restraint.

§397.5 Attendance and surveillance of motor vehicles.

(a) Except as provided in paragraph (b) of this section, a motor vehicle which contains a Division 1.1, 1.2, or 1.3 (explosive) material must be attended at all times by its driver or a qualified representative of the motor carrier that operates it.

(b) The rules in paragraph (a) of this section do not apply to a motor vehicle which contains Division 1.1, 1.2, or 1.3 material if all the following conditions exist—

(b)(1) The vehicle is located on the property of a motor carrier, on the property of a shipper or consignee of the explosives, in a safe haven, or, in the case of a vehicle containing 50 pounds or less of a Division 1.1, 1.2, or 1.3 material, on a construction or survey site; and

(b)(2) The lawful bailee of the explosives is aware of the nature of the explosives the vehicle contains and has been instructed in the procedures which must be followed in emergencies; and

(b)(3) The vehicle is within the bailee's unobstructed field of view or is located in a safe haven.

(c) A motor vehicle which contains hazardous materials other than Division 1.1, 1.2, or 1.3, materials, and which is located on a public street or highway, or the shoulder of a public highway, must be attended by its driver. However, the vehicle need not be attended while its driver is performing duties which are incident and necessary to the driver's duties as the operator of the vehicle.

(d) For purposes of this section—

(d)(1) A motor vehicle is attended when the person in charge of the vehicle is on the vehicle, awake, and not in a sleeper berth, or is within 100 feet of the vehicle and has it within his/her unobstructed field of view.

(d)(2) A qualified representative of a motor carrier is a person who—

(d)(2)(i) Has been designated by the carrier to attend the vehicle;

(d)(2)(ii) Is aware of the nature of the hazardous materials contained in the vehicle he/she attends;

(d)(2)(iii) Has been instructed in the procedures he/she must follow in emergencies; and

(d)(2)(iv) Is authorized to move the vehicle and has the means and ability to do so.

(d)(3) A safe haven in an area specifically approved in writing by local, State, or Federal governmental authorities for the parking of unattended vehicles containing Division 1.1, 1.2, or 1.3 materials.

(e) The rules in this section do not relieve the driver from any obligation imposed by law relating to the placing of warning devices when a motor vehicle is stopped on a public street or highway.

[59 FR 63925, Dec. 12, 1994]

§397.7 Parking.

(a) A motor vehicle which contains Division 1.1, 1.2, or 1.3 materials must not be parked under any of the following circumstances—

(a)(1) On or within 5 feet of the traveled portion of a public street or highway;

(a)(2) On private property (including premises of a fueling or eating facility) without the knowledge and consent of the person who is in charge of the property and who is aware of the nature of the hazardous materials the vehicle contains; or

(a)(3) Within 300 feet of a bridge, tunnel, dwelling, or place where people work, congregate, or assemble, except for brief periods when the necessities of operation require the vehicle to be parked and make it impracticable to park the vehicle in any other place.

(b) A motor vehicle which contains hazardous materials other than Division 1.1, 1.2, or 1.3 materials must not be parked on or within five feet of the traveled portion of public street or highway except for brief periods when the necessities of operation require the vehicle to be parked and make it impracticable to park the vehicle in any other place.

397.11 Fires.

- (a) A motor vehicle containing hazardous materials must not be operated near an open fire unless its driver has first taken precautions to ascertain that the vehicle can safely pass the fire without stopping.
- (b) A motor vehicle containing hazardous materials must not be parked within 300 feet of an open fire.

§397.13 Smoking.

No person may smoke or carry a lighted cigarette, cigar, or pipe on or within 25 feet of—

- (a) A motor vehicle which contains Class 1 materials, Class 5 materials, or flammable materials classified as Division 2.1, Class 3, Divisions 4.1 and 4.2; or
- (b) An empty tank motor vehicle which has been used to transport Class 3, flammable materials or Division 2.1 flammable gases, which, when so used, was required to be marked or placarded in accordance with the rules in §177.823 of this title.

[59 FR 63925, Dec. 12, 1994]

§397.15 Fueling.

When a motor vehicle which contains hazardous materials is being fueled—

- (a) Its engine must not be operating; and
- (b) A person must be in control of the fueling process at the point where the fuel tank is filled.

§397.17 Tires.

- (a) A driver must examine each tire on a motor vehicle at the beginning of each trip and each time the vehicle is parked.

(b) If, as the result of an examination pursuant to paragraph (a) of this section, or otherwise, a tire is found to be flat, leaking, or improperly inflated, the driver must cause the tire to be repaired, replaced, or properly inflated before the vehicle is driven. However, the vehicle may be driven to the nearest safe place to perform the required repair, replacement, or inflation.

(c) If, as the result of an examination pursuant to paragraph (a) of this section, or otherwise, a tire is found to be overheated, the driver shall immediately cause the overheated tire to be removed and placed at a safe distance from the vehicle. The driver shall not operate the vehicle until the cause of the overheating is corrected.

- (d) Compliance with the rules in this section does not relieve a driver from the duty to comply with the rules in §§397.5 and 397.7.

[67 FR 62192, Oct. 4, 2002]

§397.19 Instructions and documents.

- (a) A motor carrier that transports Division 1.1, 1.2, or 1.3 (explosive) materials must furnish the driver of each motor vehicle in which the explosives are transported with the following documents:

(a)(1) A copy of the rules in this part;

(a)(2) [Reserved]

(a)(3) A document containing instructions on procedures to be followed in the event of accident or delay. The documents must include the names and telephone numbers of persons (including representatives of carriers or shippers) to be contracted, the nature of the explosives being transported, and the precautions to be taken in emergencies such as fires, accidents, or leakages.

(b) A driver who receives documents in accordance with paragraph (a) of this section must sign a receipt for them. The motor carrier shall maintain the receipt for a period of one year from the date of signature.

(c) A driver of a motor vehicle which contains Division 1.1, 1.2, or 1.3 materials must be in possession of, be familiar with, and be in compliance with

(c)(1) The documents specified in paragraph (a) of this section;

(c)(2) The documents specified in §177.817 of this title; and

(c)(3) The written route plan specified in §397.67.

[59 FR 63925, Dec. 12, 1994; 63 FR 33280, June 18, 1998]

Emergency Response
Explosives- Division 1.1, 1.2, 1.3, 1.5, or: Class A & B
UN0335, Fireworks, 1.3G, PG II
UN0333, Fireworks, 1.1G, PGII

CARGO Fires

- DO NOT fight fire when fire reaches cargo! Cargo may EXPLODE!
- Stop all traffic and clear the area for at least 1600 meters (1 mile) in all directions and let burn
- Do not move cargo or vehicle if cargo has been exposed to heat.

Tire or Vehicle Fires

- Use plenty of water -FLOOD it! If water is not available, use CO2, dry chemical or dirt.
- If possible, and WITHOUT RISK, use unmanned hose holders or monitor nozzles from maximum distance to prevent fire from spreading to cargo area.
- Pay special attention to tire fires as re-ignition may occur. Stand by with extinguisher ready

SPILL or LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded
- Do not touch or walk through spilled material.
- DO NOT OPERATE RADIO TRANSMITTERS WITHIN 100 meters (330 feet) OF ELECTRIC DETONATORS.
- DO NOT CLEAN UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.

FIRST AID

- Move victim to fresh air, Call emergency medical care.
- Apply artificial respiration if victim is not breathing
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least for 20 minutes.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves

FIRE OR EXPLOSION

- MAY EXPLODE AND THROW FRAGMENTS 1600 meters (1 MILE) OR MORE IF FIRE REACHES CARGO.
- For information on "Compatibility Group" letters, refer to Glossary section in Emergency Response Guidebook.

HEALTH

- Fire may produce irritating, corrosive and / or toxic gases.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first.
- CALL CHEM-TEL'S 24- HOUR NUMBER (800) 255-3924
- Isolate spill or leak area immediately for at least 500 meters (1/3 mile) in all directions
- Move people out of line of sight of the scene and away from windows.
- Keep unauthorized personnel away.
- Stay upwind.
- Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters protective clothing will only provide limited protection.

EVACUATION

LARGE SPILL

- Consider initial evacuation for 800 meters (1/2 mile) in all directions.

Fire

- If rail car or trailer is involved in a fire and heavily encased explosives such as bombs or artillery projectiles are suspected, ISOLATE for 1600M (1 mile in all directions; also initiate evacuation including emergency responders for 1600M (1 mile) in all directions.
- When heavily encased explosives are not involved, evacuate the area for 800 meters (1/2 mile) in all directions

Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

1 Identification

- **Product identifier**
Fireworks, Division 1.3 Explosive
- **Trade name:**
Fireworks, Display
- **Product code:**
Fireworks, 1.3G UN0335
- **Recommended use and restriction on use**
 - **Recommended use:** Explosive product for professional use for entertainment and technical purposes
 - **Restrictions on use:** Contact manufacturer/supplier
- **Details of the supplier of the Safety Data Sheet**
 - **Manufacturer/Supplier:**
East Coast Pyrotechnics
4652 Catawba River Road
Catawba, SC 29704
803-789-5733
- **Emergency telephone number:**
ChemTel Inc.
(800)255-3924, +1 (813)248-0585

2 Hazard(s) Identification

- **Classification of the substance or mixture**
Expl. 1.3 H203 Explosive; fire, blast or projection hazard.
- **Label elements**
 - **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
 - **Hazard pictograms:**



GHS01

- **Signal word:** Danger
- **Hazard statements:**
H203 Explosive; fire, blast or projection hazard.
- **Precautionary statements:**
 - P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 - P250 Do not subject to grinding/shock/friction.
 - P280 Wear protective gloves/protective clothing/eye protection/face protection.
 - P373 DO NOT fight fire when fire reaches explosives.
 - P370+P380 In case of fire: Evacuate area.
 - P372 Explosion risk in case of fire.

(Cont'd. on page 2)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 1)

P401 Store in accordance with local/regional/national/international regulations.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• **Other hazards** There are no other hazards not otherwise classified that have been identified.

• **Explosive Product Notice**

PREVENTION OF ACCIDENTS IN THE USE OF EXPLOSIVES - The prevention of accidents in the use of explosives is a result of careful planning and observance of the best known practices. The explosives user must remember that he is dealing with a powerful force and that various devices and methods have been developed to assist him in directing this force. He should realize that this force, if misdirected, may either kill or injure both him and his fellow workers.

WARNING - All explosives are dangerous and must be carefully handled and used following approved safety procedures either by or under the direction of competent, experienced persons in accordance with all applicable federal, state, and local laws, regulations, or ordinances. If you have any questions or doubts as to how to use any explosive product, **DO NOT USE IT** before consulting with your supervisor, or the manufacturer, if you do not have a supervisor. If your supervisor has any questions or doubts, he should consult the manufacturer before use.

3 Composition/information on ingredients

• **Chemical characterization:** Mixtures

• **Components:**

Components for product possessing only physical hazards do not require reporting. These components are considered proprietary.

4 First-aid measures

• **Description of first aid measures**

• **General information:**

Information is only applicable to product contents, and not to product as normally supplied. This information is applicable to damaged, leaking, or spilled product as contact with contents is possible under these conditions.

• **After inhalation:** Supply fresh air; consult doctor in case of complaints.

• **After skin contact:**

Wash with soap and water.

In case of minor burns, flush with cool water.

If skin irritation is experienced, consult a doctor.

• **After eye contact:**

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• **After swallowing:**

Unlikely route of exposure.

Do not induce vomiting; immediately call for medical help.

(Cont'd. on page 3)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 2)

- **Most important symptoms and effects, both acute and delayed:**
Blast injury if mishandled.
Thermal burns, if mishandled.
- **Danger:** Danger of blast or crush-type injuries.
- **Indication of any immediate medical attention and special treatment needed:**
Product may produce physical injury if mishandled. Treatment of these injuries should be based on the clinical presentation.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
DO NOT fight fire when fire reaches explosives.
Flood area with water. If no water is available, carbon dioxide, dry chemical or earth may be used. If the fire reaches the cargo, withdraw and let fire burn.
- **For safety reasons unsuitable extinguishing agents:** None.
- **Special hazards arising from the substance or mixture**
Explosive; fire, blast or projection hazard.
During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information:**
Eliminate all ignition sources if safe to do so.
In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
Cool endangered receptacles with water spray.
Flammability Classification: (defined by 29 CFR 1910.1200) Explosive. Can explode under fire conditions. Individual devices will randomly explode. Mass explosion of multiple devices is possible under certain conditions. Burning material may produce toxic and irritating vapors. In unusual cases, shrapnel may be thrown from exploding devices under containment. See 2012 Emergency response Guidebook for further information.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Remove persons from danger area.
Ensure adequate ventilation.
Isolate area and prevent access.
- **Environmental precautions**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Methods and material for containment and cleaning up**
Pick up mechanically.

(Cont'd. on page 4)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 3)

Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage**Handling****Precautions for safe handling:**

Handle with care. Avoid jolting, friction and impact.

Restrict the quantity stored at the work place.

Keep out of reach of children.

Information about protection against explosions and fires:

In case of fire: Evacuate area.

Explosion risk in case of fire.

Keep away from sparks and open flames. - No smoking.

Emergency cooling must be available in case of nearby fire.

Conditions for safe storage, including any incompatibilities**Storage****Requirements to be met by storerooms and receptacles:**

Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility:

Store in accordance with local/regional/national/international regulations.

Store away from foodstuffs.

Store away from flammable substances.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Store locked up.

Specific end use(s) No relevant information available.**8 Exposure controls/personal protection****Control parameters****Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Exposure controls**Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Engineering controls: Provide adequate ventilation.

(Cont'd. on page 5)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 4)

- **Breathing equipment:** Not required under normal conditions of use.
- **Protection of hands:** When needed, wear gloves for protection against mechanical hazards.
- **Eye protection:**



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- **Body protection:** When needed, wear protective clothing for protection against mechanical hazards.
- **Limitation and supervision of exposure into the environment**
No relevant information available.
- **Risk management measures**
Organizational measures should be in place for all activities involving this product.

9 Physical and chemical properties

Information on basic physical and chemical properties

- | | |
|---|--|
| · Appearance: | |
| Form: | Outer shell containing powder, granular, or solid materials. |
| Color: | According to product specification |
| · Odor: | Odorless |
| · Odor threshold: | Not determined. |
| · pH-value: | Not applicable. |
| · Melting point/Melting range: | Not determined. |
| · Boiling point/Boiling range: | Not determined. |
| · Flash point: | Not applicable. |
| · Flammability (solid, gaseous): | Fire or projection hazard. |
| · Auto-ignition temperature: | Not determined. |
| · Decomposition temperature: | Not determined. |
| · Danger of explosion: | Heating may cause an explosion. |
| · Explosion limits | |
| Lower: | Not determined. |
| Upper: | Not determined. |
| · Vapor pressure: | Not applicable. |
| · Density: | Not determined. |
| · Relative density: | Not determined. |
| · Vapor density: | Not applicable. |
| · Evaporation rate: | Not applicable. |

(Cont'd. on page 6)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 5)

- | | |
|---|------------------------------------|
| · Solubility in / Miscibility with Water: | Insoluble. |
| · Partition coefficient (n-octanol/water): | Not determined. |
| · Viscosity | |
| Dynamic: | Not applicable. |
| Kinematic: | Not applicable. |
| · Other Information | No relevant information available. |

10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:** Risk of explosion if heated under confinement.
- **Possibility of hazardous reactions**
Explosive; fire, blast or projection hazard.
Toxic fumes may be released if heated above the decomposition point.
Reacts with strong acids and alkali.
- **Conditions to avoid**
Excessive heat.
Sources of ignition: sparks, open flame, incompatible materials
- **Incompatible materials** Oxidizers, strong bases, strong acids
- **Hazardous decomposition products**
Carbon monoxide and carbon dioxide
Nitrogen oxides
Sulfur oxides (SOx)

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** None.
- **Primary irritant effect:**
- **On the skin:**
Not a skin irritant in unused form. Vapors/particles from used product are possibly irritating to skin.
- **On the eye:**
Not an eye irritant in unused form. Vapors/particles from used product are possibly irritating to eyes.
- **Sensitization:** Based on available data, the classification criteria are not met.
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer):**
- None of the ingredients are listed.

(Cont'd. on page 7)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 6)

· NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable route(s) of exposure:

Skin contact.

Eye contact.

Inhalation.

· Acute effects (acute toxicity, irritation and corrosivity):

Danger of blast or crush-type injuries.

Risk of thermal burns.

· Repeated dose toxicity: From product as supplied: None.**· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)****· Germ cell mutagenicity:** Based on available data, the classification criteria are not met.**· Carcinogenicity:** Based on available data, the classification criteria are not met.**· Reproductive toxicity:** Based on available data, the classification criteria are not met.**· STOT-single exposure:** Based on available data, the classification criteria are not met.**· STOT-repeated exposure:** Based on available data, the classification criteria are not met.**· Aspiration hazard:** Based on available data, the classification criteria are not met.**12 Ecological information****· Toxicity****· Aquatic toxicity** No relevant information available.**· Persistence and degradability** No relevant information available.**· Bioaccumulative potential:** May be accumulated in organism**· Mobility in soil:** No relevant information available.**· Other adverse effects** No relevant information available.**13 Disposal considerations****· Waste treatment methods****· Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Incinerate in accordance with local, state and federal regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

(Cont'd. on page 8)

Safety Data Sheet acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 7)

- Uncleaned packagings
- Recommendation: Disposal must be made according to official regulations.

1.4 Transport information

· UN-Number	UN0335
· DOT, ADR, IMDG	FORBIDDEN
· IATA	

· UN proper shipping name	Fireworks
· DOT, ADR, IMDG	FORBIDDEN
· IATA	

· Transport hazard class(es)

· DOT



· Class	1.3
· Label	1.3G

· ADR



· Class	1.3
· Label	1.3G

· IMDG



· Class	1.1
· Label	1.3G

· IATA

· Class	FORBIDDEN
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· Packing group

· DOT	II
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· Environmental hazards

· Marine pollutant:	No
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· Special precautions for user	Not applicable.
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(Cont'd. on page 9)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 8)

- | | |
|---|-----------------|
| · EMS Number: | F-S,B-X |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- SARA

· Section 302 (extremely hazardous substances):
None of the ingredients are listed.

· Section 304 (emergency release notification):
None of the ingredients are listed.

· Section 355 (extremely hazardous substances):
None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):
Contact manufacturer.

· TSCA (Toxic Substances Control Act)
All ingredients are listed.

· Proposition 65 (California)

· Chemicals known to cause cancer:
Contact manufacturer.

· Chemicals known to cause reproductive toxicity for females:
Contact manufacturer.

· Chemicals known to cause reproductive toxicity for males:
Contact manufacturer.

· Chemicals known to cause developmental toxicity:
Contact manufacturer.

· Carcinogenic categories

· EPA (Environmental Protection Agency):
None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):
Contact manufacturer.

(Cont'd. on page 10)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 9)

NIOSH-Ca (National Institute for Occupational Safety and Health):

Contact manufacturer.

16 Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of preparation / last revision 01/06/2017 / -

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 NIOSH: National Institute for Occupational Safety
 OSHA: Occupational Safety & Health
 TLV: Threshold Limit Value
 PEL: Permissible Exposure Limit
 REL: Recommended Exposure Limit
 LDLo: Lowest Lethal Dose Observed
 Expl. 1.3: Explosives – Division 1.3

Sources

Website, European Chemicals Agency (echa.europa.eu)
 Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)
 Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
 Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6
 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.
 Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com

- **EMERGENCY RESPONSE**
- **UN0336, FIREWORKS, 1.4G, PGII,**
- **UN0431, ARTICLES PYROTECHNICS, 1.4G, PGII,**
- **UN0432, ARTICLES PYROTECHNICS, 1.4S, PGII,**
- **UN0325 IGNITERS, 1.4G, PGII, UN0454, IGNITERS, 1.4S, PGII**

- **POTENTIAL HAZARDS**

- **Fire or explosion**
- May explode and throw fragments 500 meters (1/3 mile) or more if fire reaches cargo.

- **Health**
- Fire may produce irritating, corrosive and/or toxic gases

- **PUBLIC SAFETY**

- Call Emergency Response Telephone Number on Shipping Paper. Chem-Tel (800) 255-3924
- Isolate spill or leak area immediately for at least 100 meters (330 feet) in all directions.
- Ventilate closed spaces before entering.

- **PROTECTIVE CLOTHING**

- Wear positive pressure self-contained breathing apparatus (SCBA)
- Structural firefighters' protective clothing will only provide limited protection.

- **EVACUATION**

- **Large Spill**
- Consider initial evacuation for 250 meters (800 feet) in all directions.
- **Fire**
- If rail car or trailer is involved in a fire, **ISOLATE** for 500 meters (1/3 mile) in all directions; also initiate evacuation including emergency responders for 500 meters (1/3 mile) in all directions.

- **EMERGENCY RESPONSE**

- **Fire**
- **Cargo Fires**
- Do not fight fire when fire reaches cargo! Cargo may explode
- Stop all traffic and clear the area for at least 500 meters (1/3 mile) in all directions and let burn.
- Do not move cargo or vehicle if cargo has been exposed to heat.
- **TIRE or VEHICLE Fires**
- Use plenty of water-FLOOD it! If water is not available, use CO2, dry chemical or dirt.
- If possible, and WITHOUT RISK, use unmanned hose holders or monitor nozzles from maximum distance to prevent fire from spreading to cargo area.
- Pay special attention to tire fires as re-ignition may occur. Stand by with extinguisher ready.
- **Spill or Leak**
- Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- **DO NOT OPERATE RADIO TRANSMITTERS WITHIN 100 METERS (330 FEET) OF ELECTRIC DOTONATORS.**
- **DO NOT CLEAN-UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.**
- **First Aid**
- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Product J-Tek
 Revision Date 02/11/2016
 Revision 1



Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name	J-Tek
Identifier Uses	No specific uses identified.
Supplier	MJG Technologies Inc PyroSmart Mexico, S.A. de C.V. Parcela 34 Z 1 1/2, Nuevo Mundo Ejido de Ojacaliente, Zacatecas, Mexico 98705, Mexico Tel: 856-228-6118
Contact Person	info@electricmatch.com
Emergency Telephone	1-352-323-3500 Contract # 100588

SECTION 2: HAZARDS IDENTIFICATION

Appearance	Solid, Medium brown colored bead of pyrotechnic composition on a copper-clad chip with two PVC insulated connecting wires of various lengths. Red or blue lacquer coating on igniter head.
Color	Medium brown colored.
Odor	No odour information available.

Pictogram(s)



Signal Word	Danger
Hazard Statements	H204 Fire or projection hazard. H271 May cause fire or explosion; strong oxidiser. H302 Harmful if swallowed.

Precautionary Statements	P210 Keep away from heat/ sparks/open flames/hot surfaces. -- No smoking. P221 Take any precaution to avoid mixing with combustibles/[*] P280 Wear protective gloves/ protective clothing/eye protection/face protection. P374 Fight fire with normal precautions from a reasonable distance. P370 + P380 In case of fire: Evacuate area.
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Contains	potassium perchlorate
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GHS Classification	
Physical and Chemical Hazards	Ox Sol 1 - H271, Expl. 1.4 - H204
Human Health	Acute Tox 4 - H302,
Environment	Not classified

OSHA Regulatory Status	This product is Hazardous under the OSHA Hazard communication Standard.
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Inhalation	Inhalation of large amounts of igniter heads may cause respiratory discomfort.
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Revision Date: 02/11/2016 - Revision: 1

Ingestion	Harmful if swallowed.
Skin contact	Thermal burns to the skin caused by accidental ignition of igniters. Not absorbed through the skin.
Eye contact	Thermal burns to the eyes caused by accidental ignition of igniters .
Routes of Exposure	No Information available.
Other Hazards	Not applicable.

SECTION 3: Composition/Information on Ingredients

Name	Product Identification	GHS Classification	%
potassium perchlorate	CAS-No.: 7778-74-7 EC No.: 231-912-9	Ox Sol 1 - H271, Acute Tox 4 - H302	30-60%
Composition Comments		This product contains proprietary information.	

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General Information	CAUTION! First aid personnel must be aware of own risk during rescue! Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Burns must be treated by doctors. Place unconscious person on the side in the recovery position and ensure breathing can take place. If heart stops, heart-compression must be carried out. In case of accidents: Call an ambulance immediately! Show the MSDS.
Inhalation	If this product is inhaled and symptoms occur, move the exposed person to fresh air promptly. Seek medical attention if symptoms persist.
Ingestion	Get medical attention immediately. Do NOT induce vomiting. If victim is conscious and alert, wash out mouth with water then give water. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep airway clear.
Skin contact	Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning. Consult a doctor.
Eye contact	Do not rub eye. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse. Continue to rinse for at least 15 minutes.

Most important symptoms and effects, both acute and delayed

General Information	The severity of the symptoms described will vary dependant of the concentration and the length of exposure.
Inhalation	Inhalation of large amounts of igniter heads may cause respiratory discomfort.
Ingestion	Harmful if swallowed.
Skin contact	Thermal burns to the skin caused by accidental ignition of igniters. Not absorbed through the skin.
Eye contact	Thermal burns to the eyes caused by accidental ignition of igniters .
Routes of Exposure	No Information available.

Most important symptoms and effects, both acute and delayed

Notes To The Physician	Treat Symptomatically.
------------------------	------------------------

SECTION 5: Firefighting Measures

Auto Ignition Temperature (°C)	No information available.
Flammability Limit - Lower(%)	No Information available.
Flammability Limit - Upper(%)	No Information available.
Flash point	No Information available.
Extinguishing Media	Use fire-extinguishing media appropriate for surrounding materials.
Hazardous combustion products	Smoke contains Boron and Titanium.
Unusual Fire & Explosion Hazards	Burning igniters will project sparks several feet and can cause secondary fires. Igniters may rupture a container if ignited under confinement. Igniters may be ignited by extreme impact, friction or electrostatic discharge.
Special Fire Fighting Procedures	If possible, fight fire from protected position. Avoid breathing fire vapours. Keep up-wind to avoid fumes. Ventilate closed spaces before entering them. Containers close to fire should be removed immediately or cooled with water. Use water spray to cool container and prevent

Protective equipment for fire-fighters

rupture.
Fire fighters should wear full protective equipment, including a self-contained breathing apparatus. Water should be used to cool surrounding containers.

SECTION 6: Accidental Release Measures**Personal Precautions**

Use proper personal protection (refer to Section 8).

Environmental Precautions

Run off from fire control or dilution water may cause pollution. Keep out of drains, municipal sewers, open bodies of water and water course.

Spill Clean Up Methods

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

SECTION 7: Handling and Storage**Handling**

Read and follow manufacturer's recommendations. Do not handle broken packages without protective equipment. Avoid spilling, skin and eye contact. Do not use contact lenses. Keep away from heat, sparks and open flame. Take precautionary measures against static discharges when there is a risk of dust explosion.

Usage Description

Use only according to directions.

Storage Precautions

Store igniters in accordance with local, state and federal regulations. Keep dry and avoid temperatures above 120 degree F. Store in closed container away from incompatible materials, sunlight and heat to prolong shelf life. Minimize exposure in accordance with good hygiene practices. Keep out of reach of children. Keep away from food and drink. Containers opened must be resealed and kept upright. Do not store in unlabelled containers.

Specific End Use(s)

Igniter.

SECTION 8: Exposure Controls/Personal Protection**Protective Equipment****Ingredient Comments**

No occupational exposure limits noted for the ingredients(s).

Process Conditions

Ensure that eye flushing systems and safety showers are located close to the working place. Provide adequate ventilation.

Engineering Measures

If ventilation is inadequate use a suitable respirator.

Respiratory Equipment**Hand Protection**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Due to risk of fire, leather footwear and cotton clothing should never be used. Long sleeved shirt, trousers, rubber boots, rubber gloves, and rubber apron.

Eye Protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hygiene Measures

Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Take off immediately all contaminated clothing. Avoid contact with skin, eyes and clothing.

SECTION 9: Physical and Chemical Properties**Information on Basic Physical and Chemical Properties****Appearance**

Solid. Medium brown colored bead of pyrotechnic composition on a copper-clad chip with two PVC insulated connecting wires of various lengths. Red or blue lacquer coating on igniter head.

Color

Medium brown colored.

Odor	No odour information available.
Odor Threshold - Lower	No Information available.
Odor Threshold - Upper	
pH-Value, Conc. Solution	No Information available.
pH-Value, Diluted Solution	No Information available.
Melting point	No Information available.
Initial boiling point and boiling range	No Information available.
Flash point	No Information available.
Evaporation rate	No Information available.
Flammability State	No Information available.
Flammability Limit - Lower(%)	No Information available.
Flammability Limit - Upper(%)	No Information available.
Vapor pressure	No Information available.
Vapor Density (air=1)	No Information available.
Relative density	No information available.
Bulk Density	No Information available.
Solubility	No information available.
Decomposition temperature	No Information available.
Partition coefficient; n-octanol/water	No Information available.
Auto Ignition Temperature (°C)	No Information available.
Viscosity	No Information available.
Explosive Properties	Bead of pyrotechnic composition on a copper-clad chip with two PVC insulated connecting wires of various lengths.
Oxidizing Properties	No Information available.
Molecular Weight	No Information available.
Volatile Organic Compound	No Information available.

SECTION 10: Stability and Reactivity

Reactivity	Reaction with heat, acids and reducing agents.
Stability	Stable under normal temperature conditions and recommended use.
Hazardous Polymerisation	Will not polymerise.
Hazardous Decomposition Products	Smoke contains oxides of Boron and Titanium.
Conditions to Avoid	Avoid contact with strong oxidisers. Avoid heat, flames and other sources of ignition.
Materials to Avoid	Keep away from strong acids. Keep away from strong reducing agents and strong oxidising agents.

Revision Date: 02/11/2016 - Revision: 1

SECTION 11: Toxicological Information

Toxicological Information	No toxicological information for the overall finished product.
Acute Toxicity (Oral LD50)	No Information available.
Acute Toxicity (Dermal LD50)	No Information available.
Acute Toxicity (Inhalation LC50)	No Information available.
Skin Corrosion/Irritation	No Information available.
Respiratory Sensitisation	No Information available.
Skin Sensitisation	No Information available.
Reproductive Toxicity:	No Information available.
Germ Cell Mutagenicity:	
Genotoxicity - In Vitro	
Genotoxicity - In Vivo	
Carcinogenicity:	
Carcinogenicity	No Information available.
NTP - Carcinogenicity	The product and its components are not listed.
OSHA - Carcinogenicity	The product and its components are not listed.
IARC Carcinogenicity	The product and its components are not listed.
Specific Target Organ Toxicity - Single Exposure:	
STOT - Single Exposure	No Information available.
Specific Target Organ Toxicity - Repeated Exposure:	
STOT - Repeated Exposure	No Information available.

SECTION 12: Ecological Information

Ecotoxicity	The product does pose an environmental hazard.
Acute Toxicity - Fish	No Information available.
Acute Toxicity - Aquatic Invertebrates	No Information available.
Acute Toxicity - Aquatic Plants	No Information available.
Degradability	There are no data on the degradability of this product.
Bioaccumulative Potential	No data available on bioaccumulation.
Mobility	No information available.
Results of PBT and vPvB Assessment	No information available.
Other Adverse Effects	No information available.

SECTION 13: Disposal Considerations

Waste Management	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
Disposal Methods	Waste disposal must be in accordance with appropriate federal, state, and local regulations.

SECTION 14: Transport Information**UN Number**

UN No. (DOT/TDG)	UN454
UN No. (IMDG)	UN454
UN No. (IATA)	UN0454

Proper Shipping Name

DOT/TDG Proper Shipping Name	IGNITERS
IMDG Proper Shipping Name	IGNITERS

IATA Proper Shipping Name	Igniters
---------------------------	----------

Transport Hazard Class(es)

DOT/TDG Class	1.4
IMDG Class	1.4 S
IATA Class	1.4S

Transport Labels	
------------------	--

**Packing Group(s)**

DOT Packing Group	<none>
IMDG Packing Group	-
IATA Packing Group	<none>

Special Precautions for User

EMS	F-B, S-X
-----	----------

Environmentally Hazardous Substance/Marine Pollutant

ADR	No
IMDG	No
IATA	No

SECTION 15: Regulatory Information**US Federal Regulations**

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
The Following ingredients are listed None Listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
The Following ingredients are listed None Listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities
The Following ingredients are listed None Listed.

SARA 313 Emission Reporting
The Following ingredients are listed None Listed.

CAA Accidental Release Prevention
The Following ingredients are listed None Listed.

OSHA Highly Hazardous Chemicals
The Following ingredients are listed None Listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins
The Following ingredients are listed None Listed.

California Air Toxics "Hot Spots" (A-I)
The Following ingredients are listed None Listed.

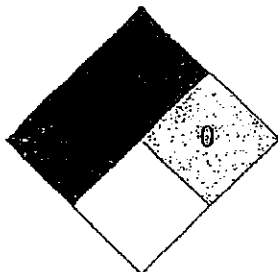
California Air Toxics "Hot Spots" (A-II)
The Following ingredients are listed None Listed.

Massachusetts "Right To Know" List
The Following ingredients are listed potassium perchlorate

Rhode Island "Right To Know" List

Revision Date: 02/11/2016 - Revision: 1

The Following ingredients are listed	None Listed.
Minnesota "Right To Know" List	
The Following ingredients are listed	None Listed.
New Jersey "Right To Know" List	
The Following ingredients are listed	boron potassium perchlorate titanium
Pennsylvania "Right To Know" List	
The Following ingredients are listed	potassium perchlorate

SECTION 16: Other Information**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)****HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)**

Health	0
Flammability	0
Physical Hazard	0
Personal Protection	

Revision Comments	This is first issue
Revision Date	02/11/2016
Revision	1

Disclaimer

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SAFETY REGULATIONS PART 397

General

§397.2 Compliance with Federal motor carrier safety regulations.

A motor carrier or other person to whom this part is applicable must comply with the rules in Part 390 through 397, inclusive, of this subchapter when he/she is transporting hazardous materials by a motor vehicle which must be marked or placarded in accordance with §177.823 of this title.

[37 FR 18080, Sept. 7, 1972]

§397.3 State and local laws, ordinances and regulations.

Every motor vehicle containing hazardous materials must be driven and parked in compliance with the laws, ordinances, and regulations of the jurisdiction in which it is being operated, unless they are at variance with specific regulations of the Department of Transportation which are applicable to the operation of that vehicle and which impose a more stringent obligation or restraint.

§397.5 Attendance and surveillance of motor vehicles.

(a) Except as provided in paragraph (b) of this section, a motor vehicle which contains a Division 1.1, 1.2, or 1.3 (explosive) material must be attended at all times by its driver or a qualified representative of the motor carrier that operates it.

(b) The rules in paragraph (a) of this section do not apply to a motor vehicle which contains Division 1.1, 1.2, or 1.3 material if all the following conditions exist—

(b)(1) The vehicle is located on the property of a motor carrier, on the property of a shipper or consignee of the explosives, in a safe haven, or, in the case of a vehicle containing 50 pounds or less of a Division 1.1, 1.2, or 1.3 material, on a construction or survey site; and

(b)(2) The lawful bailee of the explosives is aware of the nature of the explosives the vehicle contains and has been instructed in the procedures which must be followed in emergencies; and

(b)(3) The vehicle is within the bailee's unobstructed field of view or is located in a safe haven.

(c) A motor vehicle which contains hazardous materials other than Division 1.1, 1.2, or 1.3 materials, and which is located on a public street or highway, or the shoulder of a public highway, must be attended by its driver. However, the vehicle need not be attended while its driver is performing duties which are incident and necessary to the driver's duties as the operator of the vehicle.

(d) For purposes of this section—

(d)(1) A motor vehicle is attended when the person in charge of the vehicle is on the vehicle, awake, and not in a sleeper berth, or is within 100 feet of the vehicle and has it within his/her unobstructed field of view.

(d)(2) A qualified representative of a motor carrier is a person who—

(d)(2)(i) Has been designated by the carrier to attend the vehicle;

(d)(2)(ii) Is aware of the nature of the hazardous materials contained in the vehicle he/she attends;

(d)(2)(iii) Has been instructed in the procedures he/she must follow in emergencies; and

(d)(2)(iv) Is authorized to move the vehicle and has the means and ability to do so.

(d)(3) A safe haven in an area specifically approved in writing by local, State, or Federal governmental authorities for the parking of unattended vehicles containing Division 1.1, 1.2, or 1.3 materials.

(e) The rules in this section do not relieve the driver from any obligation imposed by law relating to the placing of warning devices when a motor vehicle is stopped on a public street or highway.

[59 FR 63925, Dec. 12, 1994]

§397.7 Parking.

(a) A motor vehicle which contains Division 1.1, 1.2, or 1.3 materials must not be parked under any of the following circumstances—

(a)(1) On or within 5 feet of the traveled portion of a public street or highway;

(a)(2) On private property (including premises of a fueling or eating facility) without the knowledge and consent of the person who is in charge of the property and who is aware of the nature of the hazardous materials the vehicle contains; or

(a)(3) Within 300 feet of a bridge, tunnel, dwelling, or place where people work, congregate, or assemble, except for brief periods when the necessities of operation require the vehicle to be parked and make it impracticable to park the vehicle in any other place.

(b) A motor vehicle which contains hazardous materials other than Division 1.1, 1.2, or 1.3 materials must not be parked on or within five feet of the traveled portion of public street or highway except for brief periods when the necessities of operation require the vehicle to be parked and make it impracticable to park the vehicle in any other place.

397.11 Fires.

- (a) A motor vehicle containing hazardous materials must not be operated near an open fire unless its driver has first taken precautions to ascertain that the vehicle can safely pass the fire without stopping.
- (b) A motor vehicle containing hazardous materials must not be parked within 300 feet of an open fire.

§397.13 Smoking.

No person may smoke or carry a lighted cigarette, cigar, or pipe on or within 25 feet of—

- (a) A motor vehicle which contains Class 1 materials, Class 5 materials, or flammable materials classified as Division 2.1, Class 3, Divisions 4.1 and 4.2; or
- (b) An empty tank motor vehicle which has been used to transport Class 3, flammable materials or Division 2.1 flammable gases, which, when so used, was required to be marked or placarded in accordance with the rules in §177.823 of this title.

[59 FR 63925, Dec. 12, 1994]

§397.15 Fueling.

When a motor vehicle which contains hazardous materials is being fueled—

- (a) Its engine must not be operating; and
- (b) A person must be in control of the fueling process at the point where the fuel tank is filled.

§397.17 Tires.

- (a) A driver must examine each tire on a motor vehicle at the beginning of each trip and each time the vehicle is parked.

(b) If, as the result of an examination pursuant to paragraph (a) of this section, or otherwise, a tire is found to be flat, leaking, or improperly inflated, the driver must cause the tire to be repaired, replaced, or properly inflated before the vehicle is driven. However, the vehicle may be driven to the nearest safe place to perform the required repair, replacement, or inflation.

(c) If, as the result of an examination pursuant to paragraph (a) of this section, or otherwise, a tire is found to be overheated, the driver shall immediately cause the overheated tire to be removed and placed at a safe distance from the vehicle. The driver shall not operate the vehicle until the cause of the overheating is corrected.

- (d) Compliance with the rules in this section does not relieve a driver from the duty to comply with the rules in §§397.5 and 397.7.

[67 FR 62192, Oct. 4, 2002]

§397.19 Instructions and documents.

- (a) A motor carrier that transports Division 1.1, 1.2, or 1.3 (explosive) materials must furnish the driver of each motor vehicle in which the explosives are transported with the following documents:

(a)(1) A copy of the rules in this part;

(a)(2) [Reserved]

(a)(3) A document containing instructions on procedures to be followed in the event of accident or delay. The documents must include the names and telephone numbers of persons (including representatives of carriers or shippers) to be contracted, the nature of the explosives being transported, and the precautions to be taken in emergencies such as fires, accidents, or leakages.

(b) A driver who receives documents in accordance with paragraph (a) of this section must sign a receipt for them. The motor carrier shall maintain the receipt for a period of one year from the date of signature.

(c) A driver of a motor vehicle which contains Division 1.1, 1.2, or 1.3 materials must be in possession of, be familiar with, and be in compliance with

(c)(1) The documents specified in paragraph (a) of this section;

(c)(2) The documents specified in §177.817 of this title; and

(c)(3) The written route plan specified in §397.67.

[59 FR 63925, Dec. 12, 1994; 63 FR 33280, June 18, 1998]

Emergency Response
Explosives- Division 1.1, 1.2, 1.3, 1.5, or: Class A & B
UN0335, Fireworks, 1.3G, PG II
UN0333, Fireworks, 1.1G, PGII

CARGO Fires

- DO NOT fight fire when fire reaches cargo! Cargo may EXPLODE!
- Stop all traffic and clear the area for at least 1600 meters (1 mile) in all directions and let burn
- Do not move cargo or vehicle if cargo has been exposed to heat.

Tire or Vehicle Fires

- Use plenty of water -FLOOD it! If water is not available, use CO2, dry chemical or dirt.
- If possible, and WITHOUT RISK, use unmanned hose holders or monitor nozzles from maximum distance to prevent fire from spreading to cargo area.
- Pay special attention to tire fires as re-ignition may occur. Stand by with extinguisher ready

SPILL or LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded
- Do not touch or walk through spilled material.
- DO NOT OPERATE RADIO TRANSMITTERS WITHIN 100 meters (330 feet) OF ELECTRIC DETONATORS.
- DO NOT CLEAN UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.

FIRST AID

- Move victim to fresh air, Call emergency medical care.
- Apply artificial respiration if victim is not breathing
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least for 20 minutes.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves

FIRE OR EXPLOSION

- MAY EXPLODE AND THROW FRAGMENTS 1600 meters (1 MILE) OR MORE IF FIRE REACHES CARGO.
- For information on "Compatibility Group" letters, refer to Glossary section in Emergency Response Guidebook.

HEALTH

- Fire may produce irritating, corrosive and / or toxic gases.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first.
- CALL CHEM-TEL'S 24- HOUR NUMBER (800) 255-3924
- Isolate spill or leak area immediately for at least 500 meters (1/3 mile) in all directions
- Move people out of line of sight of the scene and away from windows.
- Keep unauthorized personnel away.
- Stay upwind.
- Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters protective clothing will only provide limited protection.

EVACUATION

LARGE SPILL

- Consider initial evacuation for 800 meters (1/2 mile) in all directions.

Fire

- If rail car or trailer is involved in a fire and heavily encased explosives such as bombs or artillery projectiles are suspected, ISOLATE for 1600M (1 mile) in all directions; also initiate evacuation including emergency responders for 1600M (1 mile) in all directions.
- When heavily encased explosives are not involved, evacuate the area for 800 meters (1/2 mile) in all directions

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

1 Identification

Product identifier

Fireworks, Division 1.3 Explosive

Trade name:

Fireworks, Display

Product code:

Fireworks, 1.3G UN0335

Recommended use and restriction on use**Recommended use:** Explosive product for professional use for entertainment and technical purposes**Restrictions on use:** Contact manufacturer/supplier**Details of the supplier of the Safety Data Sheet****Manufacturer/Supplier:**

East Coast Pyrotechnics
4652 Catawba River Road
Catawba, SC 29704
803-789-5733

Emergency telephone number:

ChemTel Inc.
(800)255-3924, +1 (813)248-0585

2 Hazard(s) identification

Classification of the substance or mixture

Expl. 1.3 H203 Explosive; fire, blast or projection hazard.

Label elements**GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:

GHS01

Signal word: Danger**Hazard statements:**

H203 Explosive; fire, blast or projection hazard.

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P250 Do not subject to grinding/shock/friction.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P373 DO NOT fight fire when fire reaches explosives.
P370+P380 In case of fire: Evacuate area.
P372 Explosion risk in case of fire.

(Cont'd. on page 2)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 1)

- P401 Store in accordance with local/regional/national/international regulations.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• **Other hazards** There are no other hazards not otherwise classified that have been identified.

• **Explosive Product Notice**

PREVENTION OF ACCIDENTS IN THE USE OF EXPLOSIVES - The prevention of accidents in the use of explosives is a result of careful planning and observance of the best known practices. The explosives user must remember that he is dealing with a powerful force and that various devices and methods have been developed to assist him in directing this force. He should realize that this force, if misdirected, may either kill or injure both him and his fellow workers.

WARNING - All explosives are dangerous and must be carefully handled and used following approved safety procedures either by or under the direction of competent, experienced persons in accordance with all applicable federal, state, and local laws, regulations, or ordinances. If you have any questions or doubts as to how to use any explosive product, DO NOT USE IT before consulting with your supervisor, or the manufacturer, if you do not have a supervisor. If your supervisor has any questions or doubts, he should consult the manufacturer before use.

3 Composition/information on ingredients

• **Chemical characterization:** Mixtures

• **Components:**

Components for product possessing only physical hazards do not require reporting. These components are considered proprietary.

4 First-aid measures

• **Description of first aid measures**

• **General Information:**

Information is only applicable to product contents, and not to product as normally supplied. This information is applicable to damaged, leaking, or spilled product as contact with contents is possible under these conditions.

• **After inhalation:** Supply fresh air; consult doctor in case of complaints.

• **After skin contact:**

Wash with soap and water.

In case of minor burns, flush with cool water.

If skin irritation is experienced, consult a doctor.

• **After eye contact:**

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• **After swallowing:**

Unlikely route of exposure.

Do not induce vomiting; immediately call for medical help.

(Cont'd. on page 3)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 2)

Most important symptoms and effects, both acute and delayed:

Blast injury if mishandled.

Thermal burns, if mishandled.

Danger: Danger of blast or crush-type injuries.**Indication of any immediate medical attention and special treatment needed:**

Product may produce physical injury if mishandled. Treatment of these injuries should be based on the clinical presentation.

5 Fire-fighting measures**Extinguishing media****Suitable extinguishing agents:**

DO NOT fight fire when fire reaches explosives.

Flood area with water. If no water is available, carbon dioxide, dry chemical or earth may be used. If the fire reaches the cargo, withdraw and let fire burn.

For safety reasons unsuitable extinguishing agents: None.**Special hazards arising from the substance or mixture**

Explosive; fire, blast or projection hazard.

During heating or in case of fire poisonous gases are produced.

Advice for firefighters**Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information:

Eliminate all ignition sources if safe to do so.

In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.

Cool endangered receptacles with water spray.

Flammability Classification: (defined by 29 CFR 1910.1200) Explosive. Can explode under fire conditions. Individual devices will randomly explode. Mass explosion of multiple devices is possible under certain conditions. Burning material may produce toxic and irritating vapors. In unusual cases, shrapnel may be thrown from exploding devices under containment. See 2012 Emergency response Guidebook for further information.

6 Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Remove persons from danger area.

Ensure adequate ventilation.

Isolate area and prevent access.

Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Methods and material for containment and cleaning up

Pick up mechanically.

(Cont'd. on page 4)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 3)

Send for recovery or disposal in suitable receptacles.

• **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

• **Handling**

• **Precautions for safe handling:**

Handle with care. Avoid jolting, friction and impact.

Restrict the quantity stored at the work place.

Keep out of reach of children.

• **Information about protection against explosions and fires:**

In case of fire: Evacuate area.

Explosion risk in case of fire.

Keep away from sparks and open flames. - No smoking.

Emergency cooling must be available in case of nearby fire.

• **Conditions for safe storage, including any incompatibilities**

• **Storage**

• **Requirements to be met by storerooms and receptacles:**

Avoid storage near extreme heat, ignition sources or open flame.

• **Information about storage in one common storage facility:**

Store in accordance with local/regional/national/international regulations.

Store away from foodstuffs.

Store away from flammable substances.

• **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Store locked up.

• **Specific end use(s)** No relevant information available.

8 Exposure controls/personal protection

• **Control parameters**

• **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• **Exposure controls**

• **Personal protective equipment:**

• **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

• **Engineering controls:** Provide adequate ventilation.

(Cont'd. on page 5)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 4)

- **Breathing equipment:** Not required under normal conditions of use.
- **Protection of hands:** When needed, wear gloves for protection against mechanical hazards.
- **Eye protection:**



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- **Body protection:** When needed, wear protective clothing for protection against mechanical hazards.
- **Limitation and supervision of exposure into the environment**
No relevant information available.
- **Risk management measures**

Organizational measures should be in place for all activities involving this product.

9 Physical and chemical properties

· Information on basic physical and chemical properties

- | | |
|---|--|
| · Appearance: | |
| Form: | Outer shell containing powder, granular, or solid materials. |
| Color: | According to product specification |
| · Odor: | Odorless |
| · Odor threshold: | Not determined. |
| · pH-value: | Not applicable. |
| · Melting point/Melting range: | Not determined. |
| · Boiling point/Boiling range: | Not determined. |
| · Flash point: | Not applicable. |
| · Flammability (solid, gaseous): | Fire or projection hazard. |
| · Auto-ignition temperature: | Not determined. |
| · Decomposition temperature: | Not determined. |
| · Danger of explosion: | Heating may cause an explosion. |
| · Explosion limits | |
| Lower: | Not determined. |
| Upper: | Not determined. |
| · Vapor pressure: | Not applicable. |
| · Density: | Not determined. |
| · Relative density: | Not determined. |
| · Vapor density: | Not applicable. |
| · Evaporation rate: | Not applicable. |

(Cont'd. on page 6)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 5)

- | | |
|---|------------------------------------|
| · Solubility in / Miscibility with Water: | Insoluble. |
| · Partition coefficient (n-octanol/water): | Not determined. |
| · Viscosity | |
| Dynamic: | Not applicable. |
| Kinematic: | Not applicable. |
| · Other information | No relevant information available. |

10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:** Risk of explosion if heated under confinement.
- **Possibility of hazardous reactions**
Explosive; fire, blast or projection hazard.
Toxic fumes may be released if heated above the decomposition point.
Reacts with strong acids and alkali.
- **Conditions to avoid**
Excessive heat.
Sources of ignition: sparks, open flame, incompatible materials
- **Incompatible materials** Oxidizers, strong bases, strong acids
- **Hazardous decomposition products**
Carbon monoxide and carbon dioxide
Nitrogen oxides
Sulfur oxides (SOx)

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** None.
- **Primary irritant effect:**
- **On the skin:**
Not a skin irritant in unused form. Vapors/particles from used product are possibly irritating to skin.
- **On the eye:**
Not an eye irritant in unused form. Vapors/particles from used product are possibly irritating to eyes.
- **Sensitization:** Based on available data, the classification criteria are not met.
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer):**
None of the ingredients are listed.

(Cont'd. on page 7)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 6)

· NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable route(s) of exposure:

Skin contact.

Eye contact.

Inhalation.

· Acute effects (acute toxicity, irritation and corrosivity):

Danger of blast or crush-type injuries.

Risk of thermal burns.

· Repeated dose toxicity: From product as supplied: None.

· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
· Germ cell mutagenicity: Based on available data, the classification criteria are not met.

· Carcinogenicity: Based on available data, the classification criteria are not met.

· Reproductive toxicity: Based on available data, the classification criteria are not met.

· STOT-single exposure: Based on available data, the classification criteria are not met.

· STOT-repeated exposure: Based on available data, the classification criteria are not met.

· Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

· Toxicity
· Aquatic toxicity No relevant information available.

· Persistence and degradability No relevant information available.

· Bioaccumulative potential: May be accumulated in organism

· Mobility in soil: No relevant information available.

· Other adverse effects No relevant information available.

13 Disposal considerations

· Waste treatment methods
· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Incinerate in accordance with local, state and federal regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

(Cont'd. on page 8)

Safety Data Sheet acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 7)

- Uncleaned packagings
- Recommendation: Disposal must be made according to official regulations.

14 Transport Information

· UN-Number	UN0335
· DOT, ADR, IMDG	FORBIDDEN
· IATA	
· UN proper shipping name	Fireworks
· DOT, ADR, IMDG	FORBIDDEN
· IATA	
· Transport hazard class(es)	
· DOT	
	
· Class	1.3
· Label	1.3G
· ADR	
	
· Class	1.3
· Label	1.3G
· IMDG	
	
· Class	1.1
· Label	1.3G
· IATA	
· Class	FORBIDDEN
· Packing group	II
· DOT	
· Environmental hazards	No
· Marine pollutant:	
· Special precautions for user	Not applicable.

(Cont'd. on page 9)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 8)

· EMS Number: F-S,B-X

· Transport in bulk according to Annex II of
 MARPOL73/78 and the IBC Code Not applicable.

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· United States (USA)

· SARA

· Section 302 (extremely hazardous substances):

None of the ingredients are listed.

· Section 304 (emergency release notification):

None of the ingredients are listed.

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

Contact manufacturer.

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

· Proposition 65 (California)

· Chemicals known to cause cancer:

Contact manufacturer.

· Chemicals known to cause reproductive toxicity for females:

Contact manufacturer.

· Chemicals known to cause reproductive toxicity for males:

Contact manufacturer.

· Chemicals known to cause developmental toxicity:

Contact manufacturer.

· Carcinogenic categories

· EPA (Environmental Protection Agency):

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

Contact manufacturer.

(Cont'd. on page 10)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 9)

NIOSH-Ca (National Institute for Occupational Safety and Health):

Contact manufacturer.

16 Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• **Date of preparation / last revision** 01/06/2017 / -

• **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 NIOSH: National Institute for Occupational Safety
 OSHA: Occupational Safety & Health
 TLV: Threshold Limit Value
 PEL: Permissible Exposure Limit
 REL: Recommended Exposure Limit
 LDLo: Lowest Lethal Dose Observed
 Expl. 1.3: Explosives – Division 1.3

• **Sources**

Website, European Chemicals Agency (echa.europa.eu)
 Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)
 Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
 Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6
 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.
 Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com

- **EMERGENCY RESPONSE**
- **UN0336, FIREWORKS, 1.4G, PGII,**
- **UN0431, ARTICLES PYROTECHNICS, 1.4G, PGII,**
- **UN0432, ARTICLES PYROTECHNICS, 1.4S, PGII,**
- **UN0325 IGNITERS, 1.4G, PGII, UN0454, IGNITERS, 1.4S, PGII**

- **POTENTIAL HAZARDS**

- **Fire or explosion**
- May explode and throw fragments 500 meters (1/3 mile) or more if fire reaches cargo.

- **Health**
- Fire may produce irritating, corrosive and/or toxic gases
-

- **PUBLIC SAFETY**
- Call Emergency Response Telephone Number on Shipping Paper. Chem-Tel (800) 255-3924
- Isolate spill or leak area immediately for at least 100 meters (330 feet) in all directions.
- Ventilate closed spaces before entering.

- **PROTECTIVE CLOTHING**
- Wear positive pressure self-contained breathing apparatus (SCBA)
- Structural firefighters' protective clothing will only provide limited protection.

- **EVACUATION**

- **Large Spill**
- Consider initial evacuation for 250 meters (800 feet) in all directions.

- **Fire**
- If rail car or trailer is involved in a fire, **ISOLATE** for 500 meters (1/3 mile) in all directions; also initiate evacuation including emergency responders for 500 meters (1/3 mile) in all directions.

- **EMERGENCY RESPONSE**

- **Fire**
- **Cargo Fires**
- Do not fight fire when fire reaches cargo! Cargo may explode
- Stop all traffic and clear the area for at least 500 meters (1/3 mile) in all directions and let burn.
- Do not move cargo or vehicle if cargo has been exposed to heat.

- **TIRE or VEHICLE Fires**
- Use plenty of water-FLOOD it! If water is not available, use CO2, dry chemical or dirt.
- If possible, and WITHOUT RISK, use unmanned hose holders or monitor nozzles from maximum distance to prevent fire from spreading to cargo area.
- Pay special attention to tire fires as re-ignition may occur. Stand by with extinguisher ready.

- **Spill or Leak**
- Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- **DO NOT OPERATE RADIO TRANSMITTERS WITHIN 100 METERS (330 FEET) OF ELECTRIC DOTONATORS.**
- **DO NOT CLEAN-UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.**

- **First Aid**
- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Product J-Tek
 Revision Date 02/11/2016
 Revision 1



Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name	J-Tek
Identifier Uses	No specific uses identified.
Supplier	MJG Technologies Inc PyroSmart Mexico, S.A. de C.V. Parcela 34 Z 1 1/2, Nuevo Mundo Ejido de Ojacaliente, Zacatecas, Mexico 98705, Mexico Tel: 856-228-6118
Contact Person	info@electricmatch.com
Emergency Telephone	1-352-323-3500 Contract # 100588

SECTION 2: HAZARDS IDENTIFICATION

Appearance	Solid. Medium brown colored bead of pyrotechnic composition on a copper-clad chip with two PVC insulated connecting wires of various lengths. Red or blue lacquer coating on igniter head.
Color	Medium brown colored.
Odor	No odour information available.

Pictogram(s)



Signal Word	Danger
Hazard Statements	H204 Fire or projection hazard. H271 May cause fire or explosion; strong oxidiser. H302 Harmful if swallowed.
Precautionary Statements	P210 Keep away from heat/ sparks/open flames/hot surfaces. — No smoking. P221 Take any precaution to avoid mixing with combustibles/[*] P280 Wear protective gloves/ protective clothing/eye protection/face protection. P374 Fight fire with normal precautions from a reasonable distance. P370 + P380 In case of fire: Evacuate area.
Contains	potassium perchlorate
GHS Classification	
Physical and Chemical Hazards	Ox Sol 1 - H271, Expl. 1.4 - H204
Human Health	Acute Tox 4 - H302,
Environment	Not classified
OSHA Regulatory Status	This product is Hazardous under the OSHA Hazard communication Standard.
Inhalation	Inhalation of large amounts of igniter heads may cause respiratory discomfort.

Revision Date: 02/11/2016 - Revision: 1

Ingestion	Harmful if swallowed.
Skin contact	Thermal burns to the skin caused by accidental ignition of igniters. Not absorbed through the skin.
Eye contact	Thermal burns to the eyes caused by accidental ignition of igniters.
Routes of Exposure	No Information available.
Other Hazards	Not applicable.

SECTION 3: Composition/Information on Ingredients

Name	Product Identifier	GHS Classification	%
potassium perchlorate	CAS-No.: 7778-74-7 EC No.: 231-912-9	Ox Sol 1 - H271, Acute Tox 4 - H302	30-60%
Composition Comments	This product contains proprietary information.		

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General Information	CAUTION! First aid personnel must be aware of own risk during rescue! Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Burns must be treated by doctors. Place unconscious person on the side in the recovery position and ensure breathing can take place. If heart stops, heart-compression must be carried out. In case of accidents: Call an ambulance immediately! Show the MSDS.
Inhalation	If this product is inhaled and symptoms occur, move the exposed person to fresh air promptly. Seek medical attention if symptoms persist.
Ingestion	Get medical attention immediately. Do NOT induce vomiting. If victim is conscious and alert, wash out mouth with water then give water. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep airway clear.
Skin contact	Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning. Consult a doctor.
Eye contact	Do not rub eye. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse. Continue to rinse for at least 15 minutes.

Most important symptoms and effects, both acute and delayed

General Information	The severity of the symptoms described will vary dependant of the concentration and the length of exposure.
Inhalation	Inhalation of large amounts of igniter heads may cause respiratory discomfort.
Ingestion	Harmful if swallowed.
Skin contact	Thermal burns to the skin caused by accidental ignition of igniters. Not absorbed through the skin.
Eye contact	Thermal burns to the eyes caused by accidental ignition of igniters.
Routes of Exposure	No Information available.

Most important symptoms and effects, both acute and delayed

Notes To The Physician	Treat Symptomatically.
------------------------	------------------------

SECTION 5: Firefighting Measures

Auto Ignition Temperature (°C)	No Information available.
Flammability Limit - Lower(%)	No Information available.
Flammability Limit - Upper(%)	No Information available.
Flash point	No Information available.
Extinguishing Media	Use fire-extinguishing media appropriate for surrounding materials.
Hazardous combustion products	Smoke contains Boron and Titanium.
Unusual Fire & Explosion Hazards	Burning igniters will project sparks several feet and can cause secondary fires. Igniters may rupture a container if ignited under confinement. Igniters may be ignited by extreme impact, friction or electrostatic discharge.
Special Fire Fighting Procedures	If possible, fight fire from protected position. Avoid breathing fire vapours. Keep up-wind to avoid fumes. Ventilate closed spaces before entering them. Containers close to fire should be removed immediately or cooled with water. Use water spray to cool container and prevent

Protective equipment for fire-fighters

rupture.

Fire fighters should wear full protective equipment, including a self-contained breathing apparatus. Water should be used to cool surrounding containers.

SECTION 6: Accidental Release Measures**Personal Precautions
Environmental Precautions
Spill Clean Up Methods**

Use proper personal protection (refer to Section 8).

Run off from fire control or dilution water may cause pollution. Keep out of drains, municipal sewers, open bodies of water and water course.

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

SECTION 7: Handling and Storage**Handling**

Read and follow manufacturer's recommendations. Do not handle broken packages without protective equipment. Avoid spilling, skin and eye contact. Do not use contact lenses. Keep away from heat, sparks and open flame. Take precautionary measures against static discharges when there is a risk of dust explosion.

**Usage Description
Storage Precautions**

Use only according to directions.

Store igniters in accordance with local, state and federal regulations. Keep dry and avoid temperatures above 120 degree F. Store in closed container away from incompatible materials, sunlight and heat to prolong shelf life. Minimize exposure in accordance with good hygiene practices. Keep out of reach of children. Keep away from food and drink. Containers opened must be resealed and kept upright. Do not store in unlabelled containers.

Specific End Use(s)

Igniter.

SECTION 8: Exposure Controls/Personal Protection**Protective Equipment****Ingredient Comments**

No occupational exposure limits noted for the ingredients(s).

**Process Conditions
Engineering Measures
Respiratory Equipment
Hand Protection**

Ensure that eye flushing systems and safety showers are located close to the working place. Provide adequate ventilation.

If ventilation is inadequate use a suitable respirator.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Due to risk of fire, leather footwear and cotton clothing should never be used. Long sleeved shirt, trousers, rubber boots, rubber gloves, and rubber apron.

Eye Protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hygiene Measures

Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Take off immediately all contaminated clothing. Avoid contact with skin, eyes and clothing.

SECTION 9: Physical and Chemical Properties**Information on Basic Physical and Chemical Properties****Appearance**

Solid. Medium brown colored bead of pyrotechnic composition on a copper-clad chip with two PVC insulated connecting wires of various lengths. Red or blue lacquer coating on igniter head.

Color

Medium brown colored.

Odor	No odour information available.
Odor Threshold - Lower	No information available.
Odor Threshold - Upper	
pH-Value, Conc. Solution	No Information available.
pH-Value, Diluted Solution	No Information available.
Melting point	No Information available.
Initial boiling point and boiling range	No Information available.
Flash point	No Information available.
Evaporation rate	No Information available.
Flammability State	No Information available.
Flammability Limit - Lower(%)	No Information available.
Flammability Limit - Upper(%)	No Information available.
Vapor pressure	No Information available.
Vapor Density (air=1)	No Information available.
Relative density	No Information available.
Bulk Density	No Information available.
Solubility	No information available.
Decomposition temperature	No Information available.
Partition coefficient; n-octanol/water	No Information available.
Auto Ignition Temperature (°C)	No Information available.
Viscosity	No Information available.
Explosive Properties	Bead of pyrotechnic composition on a copper-clad chip with two PVC insulated connecting wires of various lengths.
Oxidizing Properties	No Information available.
Molecular Weight	No Information available.
Volatile Organic Compound	No Information available.

SECTION 10: Stability and Reactivity

Reactivity	Reaction with heat, acids and reducing agents.
Stability	Stable under normal temperature conditions and recommended use.
Hazardous Polymerisation	Will not polymerise.
Hazardous Decomposition Products	Smoke contains oxides of Boron and Titanium.
Conditions to Avoid	Avoid contact with strong oxidisers. Avoid heat, flames and other sources of ignition.
Materials to Avoid	Keep away from strong acids. Keep away from strong reducing agents and strong oxidising agents.

Revision Date: 02/11/2016 - Revision: 1

SECTION 11: Toxicological Information

Toxicological Information	No toxicological information for the overall finished product.
Acute Toxicity (Oral LD50)	No Information available.
Acute Toxicity (Dermal LD50)	No Information available.
Acute Toxicity (Inhalation LC50)	No Information available.
Skin Corrosion/Irritation	No Information available.
Respiratory Sensitisation	No Information available.
Skin Sensitisation	No Information available.
Reproductive Toxicity:	No Information available.
Germ Cell Mutagenicity:	
Genotoxicity - In Vitro	
Genotoxicity - In Vivo	
Carcinogenicity:	
Carcinogenicity	No Information available.
NTP - Carcinogenicity	The product and its components are not listed.
OSHA - Carcinogenicity	The product and its components are not listed.
IARC Carcinogenicity	The product and its components are not listed.
Specific Target Organ Toxicity - Single Exposure:	
STOT - Single Exposure	No Information available.
Specific Target Organ Toxicity - Repeated Exposure:	
STOT - Repeated Exposure	No Information available.

SECTION 12: Ecological Information

Ecotoxicity	The product does pose an environmental hazard.
Acute Toxicity - Fish	No Information available.
Acute Toxicity - Aquatic Invertebrates	No Information available.
Acute Toxicity - Aquatic Plants	No Information available.
Degradability	There are no data on the degradability of this product.
Bioaccumulative Potential	No data available on bioaccumulation.
Mobility	No information available.
Results of PBT and vPvB Assessment	No information available.
Other Adverse Effects	No information available.

SECTION 13: Disposal Considerations

Waste Management	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
Disposal Methods	Waste disposal must be in accordance with appropriate federal, state, and local regulations.

SECTION 14: Transport Information**UN Number**

UN No. (DOT/TDG)	UN454
UN No. (IMDG)	UN454
UN No. (IATA)	UN0454

Proper Shipping Name

DOT/TDG Proper Shipping Name	IGNITERS
IMDG Proper Shipping Name	IGNITERS

IATA Proper Shipping Name	Igniters
---------------------------	----------

Transport Hazard Class(es)

DOT/TDG Class	1.4
IMDG Class	1.4 S
IATA Class	1.4S

Transport Labels	
------------------	--

**Packing Group(s)**

DOT Packing Group	<none>
IMDG Packing Group	-
IATA Packing Group	<none>

Special Precautions for User

EMS	F-B, S-X
-----	----------

Environmentally Hazardous Substance/Marine Pollutant

ADR	No
IMDG	No
IATA	No

SECTION 15: Regulatory Information**US Federal Regulations****SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

The Following ingredients are listed	None Listed.
--------------------------------------	--------------

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

The Following ingredients are listed	None Listed.
--------------------------------------	--------------

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

The Following ingredients are listed	None Listed.
--------------------------------------	--------------

SARA 313 Emission Reporting

The Following ingredients are listed	None Listed.
--------------------------------------	--------------

CAA Accidental Release Prevention

The Following ingredients are listed	None Listed.
--------------------------------------	--------------

OSHA Highly Hazardous Chemicals

The Following ingredients are listed	None Listed.
--------------------------------------	--------------

US State Regulations**California Proposition 65 Carcinogens and Reproductive Toxins**

The Following ingredients are listed	None Listed.
--------------------------------------	--------------

California Air Toxics "Hot Spots" (A-I)

The Following ingredients are listed	None Listed.
--------------------------------------	--------------

California Air Toxics "Hot Spots" (A-II)

The Following ingredients are listed	None Listed.
--------------------------------------	--------------

Massachusetts "Right To Know" List

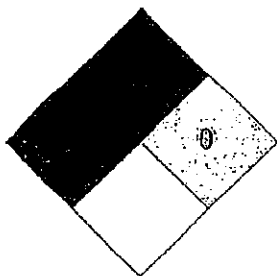
The Following ingredients are listed	potassium perchlorate
--------------------------------------	-----------------------

Rhode Island "Right To Know" List

Revision Date: 02/11/2016 - Revision: 1

The Following ingredients are listed	None Listed.
Minnesota "Right To Know" List	
The Following ingredients are listed	None Listed.
New Jersey "Right To Know" List	
The Following ingredients are listed	boron potassium perchlorate titanium
Pennsylvania "Right To Know" List	
The Following ingredients are listed	potassium perchlorate

SECTION 16: Other Information

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)**HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)**

Health	0
Flammability	0
Physical Hazard	0
Personal Protection	

Revision Comments

This is first issue

Revision Date

02/11/2016

Revision

1

Disclaimer

ALL INFORMATION APPEARING HEREIN IS BASED UPON DATA OBTAINED FROM THE MANUFACTURER AND/OR RECOGNIZED TECHNICAL SOURCES. THIS INFORMATION IS BELIEVED TO BE CORRECT, BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. MJG TECHNOLOGIES INC. MAKES NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY OR COMPLETENESS OF THIS INFORMATION. IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SUITABILITY OF THIS INFORMATION FOR THE ADOPTION OF NECESSARY SAFETY PRECAUTIONS AND/OR COMPLIANCE WITH LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS.

U.S. Department of Justice
Bureau of Alcohol, Tobacco, Firearms and Explosives

Federal Explosives License/Permit (18 U.S.C. Chapter 40)

25-2000-000000-000000-000000-000000-000000

In accordance with the provisions of Title XI, Organized Crime Control Act of 1970, and the regulations issued thereunder (27 CFR Part 555), you may engage in the activity specified in this license or permit within the limitations of Chapter 40, Title 18, United States Code and the regulations issued thereunder, until the expiration date shown. **THIS LICENSE IS NOT TRANSFERABLE UNDER 27 CFR 555.53.** See "WARNINGS" and "NOTICES" on reverse.

Direct ATF
Correspondence To
ATF - Chief, FELC
244 Needy Road
Martinsburg, WV 25405-9431

License/Permit
Number

1-SC-091-50-7L-00269

Chief, Federal Explosives Licensing Center (FELC)

Expiration
Date

November 1, 2027

Name
PYRO SHOWS EAST COAST INC

Premises Address (Changes? Notify the FELC at least 10 days before the move.)

**4652 CATAWBA RIVER ROAD
CATAWBA, SC 29704-**

Type of License or Permit

50-MANUFACTURER OF EXPLOSIVES

Purchasing Certification Statement

Mailing Address (Changes? Notify the FELC of any changes.)

The licensee or permittee named above shall use a copy of this license or permit to assist a transferor of explosives to verify the identity and the licensed status of the licensee or permittee as provided by 27 CFR Part 555. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license or permit with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Explosives Licensee (FEL) or responsible person of the FEL. I certify that this is a true copy of a license or permit issued to the licensee or permittee named above to engage in the business or operations specified above under "Type of License or Permit."

PYRO SHOWS EAST COAST INC
PO BOX 1776
LA FOLLETTE, TN 37766-

Licensee/Permittee Responsible Person Signature

Position/Title

Jesse Salvesson

President
10-28-2024

Printed Name

Date

ATF Form 5400.14/5400.15 Part I
Revised September 2011

Previous Edition is Obsolete PYRO SHOWS EAST COAST INC-4652 CATAWBA RIVER ROAD-29704-1-SC-091-50-7L-00269-November 1, 2027-50-MANUFACTURER OF EXPLOSIVES

Federal Explosives License (FEL) Customer Service Information

Federal Explosives Licensing Center (FELC)
244 Needy Road
Martinsburg, WV 25405-9431

Toll-free Telephone Number: (877) 283-3352
Fax Number: (304) 616-4401
E-mail: FELC@atf.gov

ATF Homepage: www.atf.gov

Change of Address (27 CFR 555.54(a)(1)). Licensees or permittees may during the term of their current license or permit remove their business or operations to a new location at which they intend regularly to carry on such business or operations. The licensee or permittee is required to give notification of the new location of the business or operations not less than 10 days prior to such removal with the Chief, Federal Explosives Licensing Center. The license or permit will be valid for the remainder of the term of the original license or permit. **(The Chief, FELC, shall, if the licensee or permittee is not qualified, refer the request for amended license or permit to the Director of Industry Operations for denial in accordance with § 555.54.)**

Right of Succession (27 CFR 555.59). (a) Certain persons other than the licensee or permittee may secure the right to carry on the same explosive materials business or operations at the same address shown on, and for the remainder of the term of, a current license or permit. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee or permittee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business or operations shall furnish the license or permit for that business or operations for endorsement of such succession to the Chief, FELC, within 30 days from the date on which the successor begins to carry on the business or operations.

(Continued on reverse side)

Cut Here ✂

Federal Explosives License/Permit (FEL) Information Card

License/Permit Name: PYRO SHOWS EAST COAST INC

Business Name:

License/Permit Number: 1-SC-091-50-7L-00269

License/Permit Type: 50-MANUFACTURER OF EXPLOSIVES

Expiration: November 1, 2027

Please Note: Not Valid for the Sale or Other Disposition of Explosives.

U.S. Department of Justice
Bureau of Alcohol, Tobacco, Firearms and Explosives

Federal Explosives License/Permit
(18 U.S.C. Chapter 40)

2011-2012 (2011-2012) (2011-2012) (2011-2012)

In accordance with the provisions of Title XI, Organized Crime Control Act of 1970, and the regulations issued thereunder (27 CFR Part 555), you may engage in the activity specified in this license or permit within the limitations of Chapter 40, Title 18, United States Code and the regulations issued thereunder, until the expiration date shown. **THIS LICENSE IS NOT TRANSFERABLE UNDER 27 CFR 555.53.** See "WARNINGS" and "NOTICES" on reverse.

Direct ATF
Correspondence To
ATF - Chief, FELC
244 Needy Road
Martinsburg, WV 25405-9431

License/Permit
Number
1-SC-091-51-7L-00270

Chief, Federal Explosives Licensing Center (FELC)

Expiration
Date
November 01, 2027

Name
PYRO SHOWS EAST COAST INC

Premises Address (Changes? Notify the FELC at least 10 days before the move.)

**4652 CATAWBA RIVER ROAD
CATAWBA, SC 29704-**

Type of License or Permit

51-IMPORTER OF EXPLOSIVES

Purchasing Certification Statement

Mailing Address (Changes? Notify the FELC of any changes.)

The licensee or permittee named above shall use a copy of this license or permit to assist a transferor of explosives to verify the identity and the licensed status of the licensee or permittee as provided by 27 CFR Part 555. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license or permit with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Explosives Licensee (FEL) or a responsible person of the FEL. I certify that this is a true copy of a license or permit issued to the licensee or permittee named above to engage in the business or operations specified above under "Type of License or Permit."

PYRO SHOWS EAST COAST INC
PO BOX 1776
LA FOLLETTE, TN 37766-

Licensee/Permittee Responsible Person Signature

Position/Title

Printed Name

Date

ATF Form 5400.14/5400.15 Part I
Revised September 2011

Previous Edition is Obsolete PYRO SHOWS EAST COAST INC:4652 CATAWBA RIVER ROAD:29704:1-SC-091-51-7L-00270:November 01, 2027:51-IMPORTER OF EXPLOSIVES

Federal Explosives License (FEL) Customer Service Information

Federal Explosives Licensing Center (FELC)
244 Needy Road
Martinsburg, WV 25405-9431

Toll-free Telephone Number: (877) 283-3352
Fax Number: (304) 616-4401
E-mail: FELC@atf.gov

ATF Homepage: www.atf.gov

Change of Address (27 CFR 555.54(a)(1)). Licensees or permittees may during the term of their current license or permit remove their business or operations to a new location at which they intend regularly to carry on such business or operations. The licensee or permittee is required to give notification of the new location of the business or operations not less than 10 days prior to such removal with the Chief, Federal Explosives Licensing Center. The license or permit will be valid for the remainder of the term of the original license or permit. **(The Chief, FELC, shall, if the licensee or permittee is not qualified, refer the request for amended license or permit to the Director of Industry Operations for denial in accordance with § 555.54.)**

Right of Succession (27 CFR 555.59). (a) Certain persons other than the licensee or permittee may secure the right to carry on the same explosive materials business or operations at the same address shown on, and for the remainder of the term of, a current license or permit. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee or permittee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business or operations shall furnish the license or permit for for that business or operations for endorsement of such succession to the Chief, FELC, within 30 days from the date on which the successor begins to carry on the business or operations.

(Continued on reverse side)

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Federal Explosives License/Permit (FEL) Information Card

License/Permit Name: PYRO SHOWS EAST COAST INC

Business Name:

License/Permit Number: 1-SC-091-51-7L-00270

License/Permit Type: 51-IMPORTER OF EXPLOSIVES

Expiration: November 01, 2027

Please Note: Not Valid for the Sale or Other Disposition of Explosives.

NORTH CAROLINA

WAYNE COUNTY

**RESOLUTION #2026-15: A RESOLUTION ALLOWING THE USE OF
PYROTECHNICS**

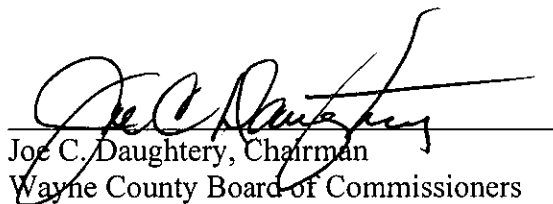
WHEREAS, Pyro Shows Southeast, has requested the Board of Commissioners of Wayne County for permission for pyrotechnics to be exhibited, used, and discharged in a safe and proper manner under the supervision of experts for a fireworks celebration which will be held on June 27, 2026, at 100-B Main Street, Seven Springs, North Carolina, as provided by North Carolina General Statute 14-410; and

WHEREAS, it is the intention of Pyro Shows Southeast to use said displays in a public celebration; and

WHEREAS, it appears to the Wayne County Board of Commissioners that permits to use pyrotechnics should be given for such celebration as provided by North Carolina General Statutes 14-410 and 14-413.

NOW, THEREFORE, BE IT RESOLVED by the Wayne County Board of Commissioners that Pyro Shows Southeast is hereby given permission to use pyrotechnics under the supervision of an expert at their public celebrations to be held on June 27, 2026, contingent upon the approval of the Wayne County Inspections Department.

This the 2nd day of June, 2026.


Joe C. Daughtery, Chairman
Wayne County Board of Commissioners

Attest:


Kayla Whitley
Clerk to the Board



COUNTY OF WAYNE
APPLICATION FOR FIRE OPERATIONAL PERMIT

DATE: 5-21-26

Applicants Name(s): Dennis Lewis, Pyro Ghows Applicants Phone # 919-580-7417

Permanent 911 Address: 100B Main Street, Seven Springs Lot Number: 28578
N.C. Wildlife Ramp

Number of private fire hydrant tests:

Inspections needed:

☐ Amusement Buildings	☐ Change of Occupancy/Ownership	☐ Miscellaneous
☐ Car Lots	☐ Covered Mall Buildings	☐ Private Fire Hydrants
☐ Carnivals and Fairs	☐ Day Care Centers	☐ Pyrotechnic Special effects material
☐ Exhibits and Trade shows	☐ Explosives	☐ Sale of fireworks
☒ Fireworks Display	☐ Flammable and combustible liquids	☐ Spraying or Dipping
☐ Fumigation & Thermal insecticidal fogging	☐ Homes (Foster)	☐ Temp Membrane
structures, Tents		
☐ Homes (Group)	☐ Homes (Nursing)	☐ & Canopies.
☐ Homes (Rest)	☐ Homes (Retirement)	
☐ Homes (Therapeutic)	☐ Homes (Youth)	
☐ Liquid or gas fueled vehicles	☐ Liquid or gas in assembly building	

Contractor/Owner/Business Listing with the state: Francisco Display Fireworks

Mailing Address: South Boston, VA

Contractor License number: Work Number: Mobile number: 919-580-7417

Contractor's Email Address: dk11127@yahoo.com

Please Email permit application to amanda.drake@waynegov.com & katie.johnson@waynegov.com

Fee schedule-Updated July 1, 2020, A re-inspection fee of \$60.00 will be charged per re-inspections 1.5 times total permit fee. Only if work is started before the permit is issued. Wayne County Inspections Department contact information:

Mailing address: P.O. Box 227 Goldsboro, NC 27533 Physical Address: 134 N. John St Goldsboro NC 27533 (3rd floor of the Jeffrey's Building in room 305) Phone #: (919)731-1169 Fax No: (919-)705-1815 Website: www.waynegov.com A building permit must be obtained by a contractor or home/land owner in person only. A notarized owner exemption affidavit pursuant to G.S. 87-14(A)(1) Form may also be required. Notifications from a Lien agent resulting from session law 2012-158 may also be required.

By signing this document, I agree to all the above information.

Applicant Name: Dennis Lewis

Applicant Signature: Dennis Lewis

Date: 5-21-26

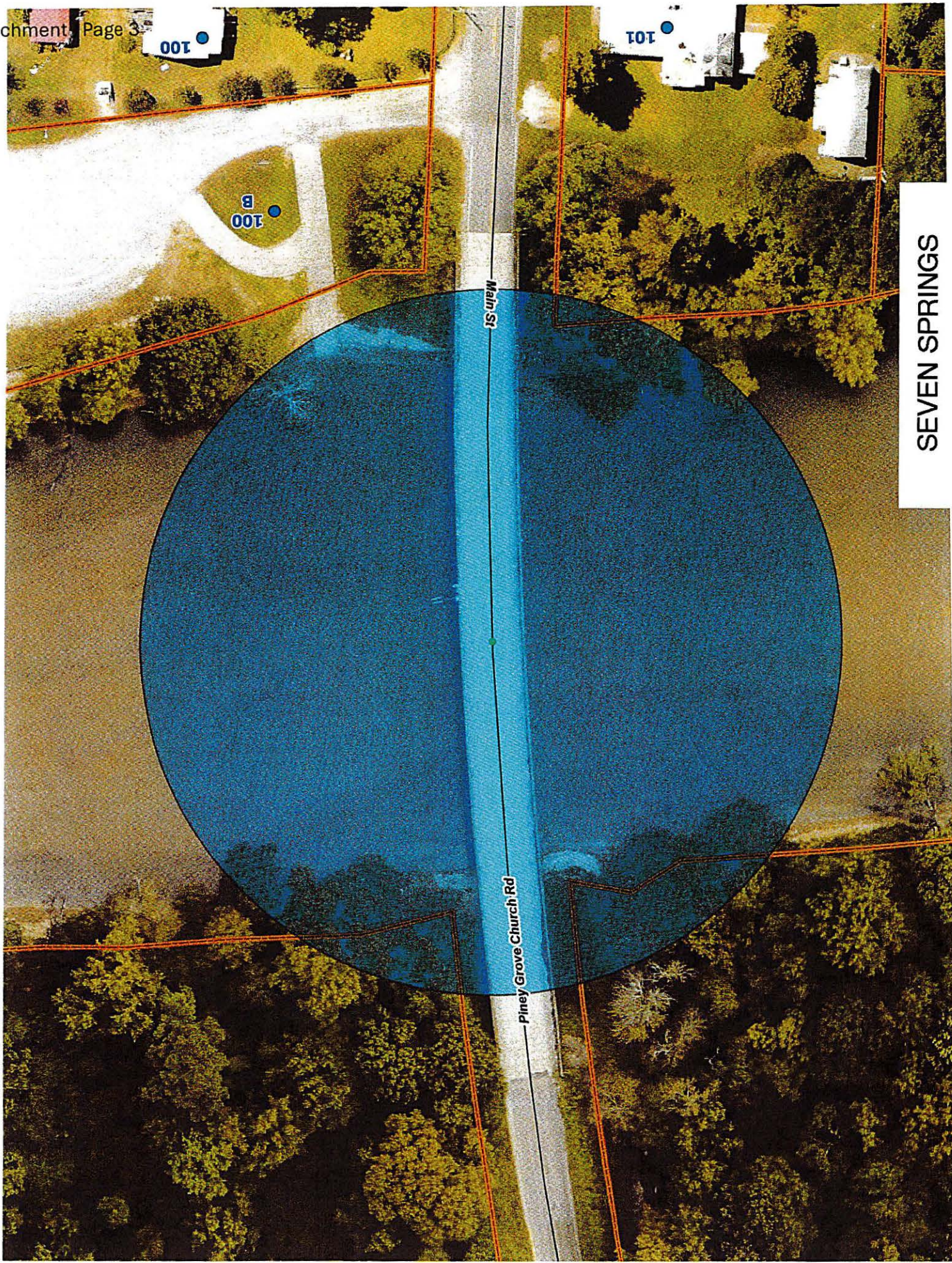
(Only put card information if you do not want to pay in person)

I Hereby authorize the Wayne County Inspections Department to charge the permit fee to my credit card. (Credit card payment (VISA OR MASTERCARD ONLY)) Credit Card number:

Expiration date (MM/YY): three-digit CVV/V-CODE on the back of the credit card:

Date of event 6/27/26

*will pay in office
prior to event.*



SEVEN SPRINGS

U.S. Department of Justice
Bureau of Alcohol, Tobacco, Firearms and Explosives

Federal Explosives License/Permit (18 U.S.C. Chapter 40)

REGISTRATION NUMBER 1-VA-083-51-8B-01053

In accordance with the provisions of Title XI, Organized Crime Control Act of 1970, and the regulations issued thereunder (27 CFR Part 555), you may engage in the activity specified in this license or permit within the limitations of Chapter 40, Title 18, United States Code and the regulations issued thereunder, until the expiration date shown. **THIS LICENSE IS NOT TRANSFERABLE UNDER 27 CFR 555.53.** See "WARNINGS" and "NOTICES" on reverse.

Direct ATF ATF - Chief, FELC
Correspondence To 244 Needy Road
 Martinsburg, WV 25405-9431

License/Permit
Number

1-VA-083-51-8B-01053

Chief, Federal Explosives Licensing Center (FELC)

Expiration
Date

February 1, 2028

Name

FRANCISCO DISPLAY FIREWORKS LLC

Premises Address (Changes? Notify the FELC at least 10 days before the move.)

**2018 CLAYS MILL SCHOOL ROAD
SCOTTSBURG, VA 24589-**

Type of License or Permit

51-IMPORTER OF EXPLOSIVES

Purchasing Certification Statement

The licensee or permittee named above shall use a copy of this license or permit to assist a transferor of explosives to verify the identity and the licensed status of the licensee or permittee as provided by 27 CFR Part 555. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license or permit with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Explosives Licensee (FEL) or a responsible person of the FEL. I certify that this is a true copy of a license or permit issued to the licensee or permittee named above to engage in the business or operations specified above under "Type of License or Permit."

Mailing Address (Changes? Notify the FELC of any changes.)

FRANCISCO DISPLAY FIREWORKS LLC
516 OLD MAYFIELD ROAD
DANVILLE, VA 24541-

Licensee/Permittee Responsible Person Signature

Position/Title

DANNY RYAN FRANCISCO

OWNER

Printed Name

Date

1-22-2026

Previous Edition is Obsolete FRANCISCO DISPLAY FIREWORKS LLC-2018 CLAYS MILL SCHOOL ROAD-24589-1-VA-083-51-8B-01053-February 1, 2028-51-IMPORTER OF EXPLOSIVES

ATF Form 5400.14/5400.15 Part I
Revised September 2011

Federal Explosives License (FEL) Customer Service Information

Federal Explosives Licensing Center (FELC)
244 Needy Road
Martinsburg, WV 25405-9431

Toll-free Telephone Number: (877) 283-3352
Fax Number: (304) 616-4401
E-mail: FELC@atf.gov

ATF Homepage: www.atf.gov

Change of Address (27 CFR 555.54(a)(1)). Licensees or permittees may during the term of their current license or permit remove their business or operations to a new location at which they intend regularly to carry on such business or operations. The licensee or permittee is required to give notification of the new location of the business or operations not less than 10 days prior to such removal with the Chief, Federal Explosives Licensing Center. The license or permit will be valid for the remainder of the term of the original license or permit. **(The Chief, FELC, shall, if the licensee or permittee is not qualified, refer the request for amended license or permit to the Director of Industry Operations for denial in accordance with § 555.54.)**

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(Continued on reverse side)

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Federal Explosives License/Permit (FEL) Information Card

License/Permit Name: **FRANCISCO DISPLAY FIREWORKS LLC**

Business Name:

License/Permit Number: **1-VA-083-51-8B-01053**

License/Permit Type: **51-IMPORTER OF EXPLOSIVES**

Expiration: **February 1, 2028**

Please Note: Not Valid for the Sale or Other Disposition of Explosives.

REGULATORY BOOK

REGULATORY



PYRO SHOWS East Coast

REGULATORY

DOT Call In:

Carson Stogner – 800.238.5114

Please state location and time



Pyro Shows Inc

Contact Numbers

Main office – LaFollette, TN -----		800-662-1331
	FAX	423-562-9171
Jesse Salvesson -----	cell	423-494-4202
Mike Walden -----	cell	423-494-9057
Lansden Hill -----	cell	865-803-3700
<u>Pyro Shows of Texas</u>		
Texas office – Suzanne McKinney -----		800-488-7976
	FAX	817-237-3374
Kyle Wooten -----	cell	361-944-4595
Daniel Chadwick -----	cell	423-912-5069
Chad Stanley -----	cell	817-933-9017
Mike Walden -----	cell	423-494-9057
<u>Pyro Shows Alabama</u>		
Alabama office -----		877-776-7976
	FAX	205-789-2709
Stephanie Wiley -----	cell	205-777-1286
Marvin Jones -----	cell	205-266-5023
Jeff Freels -----	cell	205-915-9137
Danny Turner -----	cell	904-442-0171
Mike Walden -----	cell	423-494-9057

Pyro Shows Emergency Contact Information

Guidelines for calling:

Using your common sense, contact the person most likely able to help you or answer your questions. You are welcome to go up the chain as needed.

If you cannot reach the desired contact person, leave a voice mail message; but immediately follow it up with a text message.

(Generally, people check their text messages more frequently than they check voice mails)

Any incident that has caused personal injury, illness or property damage, whether caused by a fireworks vehicular accident shall be reported to

South Carolina – East Coast -----	800-238-5114
Fred Cantrell -----	803-984-9248
Scott Donahue -----	803-517-2893
Joes Matthews -----	803-558-9798
Carson Stogner -----	843-337-5166
Jesse Salvesson -----	423-494-4202

PYRO SHOWS TRAINING SEMINAR 2017

OUTDOOR DISPLAY MINIMUM DISTANCES TO REMEMBER	
35 FEET	PER SHELL INCH FROM MORTAR OF NON BURSTING COMET OR MINE TO SPECTATORS OR PARKING
70 FEET	PER SHELL INCH FROM MORTAR TO SPECTATORS OR PARKING
140 FEET	PER SHELL INCH FROM MORTAR TO HOSPITALS, JAILS OR BULK HAZ MAT STORAGE
2 FEET	PER SHELL INCH FROM MORTAR TO BUNKER THROUGH 6" SHELLS
4 FEET	PER SHELL INCH FROM MORTAR TO BUNKER LARGER THAN 6" SHELLS
25 FEET	BETWEEN AREA OF MANUAL FIRING AND ELECTRIC FIRING ON BARGES AND ROOFTOPS
25 FEET	TO OVERHEAD OBSTRUCTIONS SUCH AS TREE LIMBS, POWER LINES, OR ANTENNAS
50 FEET	DOWNWIND FROM FIREWORKS FOR SMOKING
50 FEET	FROM FIREWORKS TO SHELL REPAIR OR FUSE CUTTING ACTIVITY
50 FEET	FROM FIREWORKS TO PUBLIC AT SHOW SITE BEFORE PREPARATION
100 FEET	FROM FIREWORKS TO PUBLIC AT SHOW SITE DURING PREPARATION
75 FEET	FROM MORTARS TO UNSHELTERED OR UNBARRICADED CREW ON ELECTRIC SHOW
75 FEET	FROM LOW POWERED SET PIECES TO SPECTATORS OR PARKING
125 FEET	FROM HIGH POWERED SET PIECES, WHEELS, CAKES, OR ROMAN CANDLES TO SPECTATORS OR PARKING

PYRO SHOWS TRAINING SEMINAR 2017

HELPFUL HINTS WITH MOST COMMON QUESTIONS

FUSING WITH Z18 IGNITER CORD

15 SEC DURATION	CUT TIMER FUSE 20 TO 21 INCHES
16 SEC DURATION	CUT TIMER FUSE 21 TO 22 INCHES
17 SEC DURATION	CUT TIMER FUSE 22 TO 23 INCHES
18 SEC DURATION	CUT TIMER FUSE 23 TO 24 INCHES
19 SEC DURATION	CUT TIMER FUSE 24 TO 25 INCHES
20 SEC DURATION	CUT TIMER FUSE 25 TO 26 INCHES
21 SEC DURATION	CUT TIMER FUSE 26 TO 27 INCHES
22 SEC DURATION	CUT TIMER FUSE 27 TO 28 INCHES

****WHEN FUSING WITH Z18 (RED CORD) YOU MUST TAPE ENTIRE LENGTH BETWEEN SHELLS****

ALL SIZES OF PRESTRUNG SHELLS ARE INTENDED TO LAST 15-20 SECONDS

ELECTRIC MATCH NOTES:

2M (ORANGE)	USE THESE FOR SETUPS, CANDLES, COMETS
3M (BLACK)	USE THESE FOR DIGITAL FIRING SYSTEMS
5M (BLUE)	USE THESE FOR CAKES AND SINGLE DEVICES
10M (ORANGE)	USE THESE FOR WATERFALL

NEVER SLIDE THE SAFETY CAP BACK FROM THE MATCH HEAD BEFORE INSERTING INTO FUSE

ELECTRICAL AND CONTINUITY NOTES:

ELECTRIC MATCH	2-3 OHMS OF RESISTANCE
24 GAUGE 2 PAIR WIRE	55 OHMS OF RESISTANCE PER 1000 FEET
25 PAIR CABLE	7-10 OHMS OF RESISTANCE PER 100 FEET

1 VOLT CAN FIRE 2 OHMS

Ex. 24 VOLT BATTERY CAN FIRE 48 OHMS, 36 VOLT BATTERY CAN FIRE 72 OHMS

BE SMART, BE SAFE, AND HAVE FUN!!!

ROUTE PLAN CHEKCLIST

SHOW : _____

Date: _____

- _____ Front Cover
- _____ Bill of Lading
- _____ Cue Sheets
- _____ Hotel Reservation (Alison)
- _____ Any Important Emails (M. Ford)
- _____ Music (if applicable) (Garrett)
- _____ Keys to any gates (if applicable)
- _____ Receipt Holder
- _____ Customer/Show Information (sales)
- _____ Route Plan / Directions
- _____ Site Diagram (sales)
- _____ Certificate of Insurance (Rigney)
- _____ Permit(s) (if applicable) (Rigney)
- _____ Regulatory Standard Information (GUTS)
- _____ Cue Logs (Separate Book if applicable) (Garrett)
- _____ OSFM Firework Checklist for NC Shows ONLY

COMPLETED : _____

Notes:

5. SHIPPING REQUIREMENTS

*** 5.1 Transportation Regulating Authorities** Transportation of fireworks is regulated by DOT. Some states and municipalities also regulate transportation of fireworks through their jurisdiction, often by incorporation of federal regulations.

*** 5.2 Approval** Except for samples prepared in accordance with DOT regulations, or unless specifically permitted by this Standard, no fireworks device or novelty may be offered for transportation or transported until it is classed and approved by DOT, and an approval number (EX number) is issued (Title 49 CFR, § 173.56.) (see chapters 3-4 and appendix D)

*** 5.2.1** EX numbers for fireworks contained in a shipping carton must be marked on the shipping carton or on the shipping paper.

*** 5.2.2** Cartons containing 5 or more different fireworks devices must be marked with at least 5 of the EX numbers covering items in the carton, or the EX numbers must appear on the shipping paper. (Title 49 CFR, §172.320(c) and (d))

*** 5.3 Packaging** With certain exceptions, Consumer Fireworks UN0336, Display Fireworks UN0335, Articles Pyrotechnic UN0431 and Novelties, must be securely packaged in containers complying with DOT regulations Title 49 CFR, § 178. Gross weight limitation per package is now dictated by the weight marked on the certified packaging. Articles with match or friction tip ignition must be packed so that each individual tip is protected against accidental contact or friction. Loose chemical composition may not be present in packages in transportation. (Title 49 CFR, §172.102(c), Special Provision (108))

*** 5.4 Placards** Unless otherwise provided, each motor vehicle, freight container and rail car must bear appropriate placards on each end and each side (Title 49 CFR, § 172.504 (a).) Vehicles containing packages of consumer fireworks or novelties which are labeled 1.4G require a 1.4G or Explosive 1.4G placard (Title 49 CFR, § 172.523,) and use of the word explosive is optional (Title 49 CFR, § 172.519(b)(3).) except highway and rail shipments of less than 1,000 pounds gross weight of such fireworks need not bear a placard (Title 49 CFR, § 172.504(c).) Vehicles containing display fireworks in any quantity require a 1.3G or Explosive 1.3G placard (Title 49 CFR, § 172.522) and use of the word explosive is optional (Title 49 CFR, § 172.519(b)(3).) If both 1.4G and 1.3G are present in a shipment, the 1.3G placard is required, and the 1.4G placard is not needed.

*** 5.5 Package Marking and Labeling** Each person who offers fireworks for transportation shall ensure that the package displays the appropriate square-on-point label (Title 49 CFR, § 172.400(a) and 172.411.) Use of the word explosive on the 1.3G and 1.4G labels is not required (Title 49 CFR §172.405(a).) Consumer fireworks, toy smoke devices, and trick noisemakers are either classed as 1.4G, 1.4S, or not regulated for transportation purposes. Display fireworks are classed as 1.3G (Title 49 CFR, § 172.101.) The label must be printed or affixed to the surface of the package near the proper

§172.519 General specifications for placards.

(a) *Strength and durability.* Placards must conform to the following:

(1) A placard may be made of any plastic, metal or other material capable of withstanding, without deterioration or a substantial reduction in effectiveness, a 30-day exposure to open weather conditions.

(2) A placard made of tagboard must be at least equal to that designated commercially as white tagboard. Tagboard must have a weight of at least 80 kg (176 pounds) per ream of 610 by 910 mm (24 by 36-inch) sheets, waterproofing materials included. In addition, each placard made of tagboard must be able to pass a 414 kPa (60 p.s.i.) Mullen test.

(3) Reflective or retroreflective materials may be used on a placard if the prescribed colors, strength and durability are maintained.

(b) *Design.* (1) Except as provided in §172.332 of this part, each placard must be as described in this subpart, and except for size and color, the printing, inner border and symbol must be as shown in §§172.521 through 172.560 of this subpart, as appropriate.

(2) The dotted line border shown on each placard is not part of the placard specification. However, a dotted or solid line outer border may be used when needed to indicate the full size of a placard that is part of a larger format or is on a background of a non-contrasting color.

(3) For other than Class 7 or the DANGEROUS placard, text indicating a hazard (for example, "FLAMMABLE") is not required. Text may be omitted from the OXYGEN placard only if the specific identification number is displayed on the placard.

(4) For a placard corresponding to the primary or subsidiary hazard class of a material, the hazard class or division number must be displayed in the lower corner of the placard. However, a permanently affixed subsidiary placard meeting the specifications of this section which were in effect on October 1, 2001, (such as, a placard without the hazard class or division number displayed in the lower corner of the placard) and which was installed prior to September 30, 2001, may continue to be used as a subsidiary placard in domestic transportation by rail or highway, provided the color tolerances are maintained and are in accordance with the display requirements in this subchapter.

(c) *Size.* (1) Each diamond (square-on-point) placard prescribed in this subpart must measure at least 250 mm (9.84 inches) on each side and must have a solid line inner border 12.5 mm inside and parallel to the edge. The 12.5 mm measurement is from the outside edge of the placard to the outside of the solid line forming the inner border.

(i) *Transitional exceptions.* A placard in conformance with the requirements of this paragraph in effect on December 31, 2014, may continue to be used until December 31, 2016.

(ii) For domestic transportation, a placard manufactured prior to January 1, 2017 in conformance with the requirements of this paragraph in effect on December 31, 2014, may continue in service until the end of its useful life provided the color tolerances are maintained and are in accordance with the display requirements of this subchapter.

(2) Except as otherwise provided in this subpart, the hazard class or division number, as appropriate, must be shown in numerals measuring at least 41 mm (1.6 inches) in height.

(3) Except as otherwise provided in this subpart, when text indicating a hazard is displayed on a placard, the printing must be in letters measuring at least 41 mm (1.6 inches) in height.

(d) *Color.* (1) The background color, symbol, text, numerals and inner border on a placard must be as specified in §§172.521 through 172.560 of this subpart, as appropriate.

(2) Black and any color on a placard must be able to withstand, without substantial change—

(i) A 72-hour fadeometer test (for a description of equipment designed for this purpose, see ASTM G 23-69 or ASTM G 26-70); and

(ii) A 30-day exposure to open weather.

(3) Upon visual examination, a color on a placard must fall within the color tolerances displayed on the appropriate Hazardous Materials Label and Placard Color Tolerance Chart (see §172.407(d)(4)). As an alternative, the PANTONE® formula guide coated/uncoated as specified for colors in §172.407(d)(5) may be used.

(4) The placard color must extend to the inner border and may extend to the edge of the placard in the area designated on each placard except the color on the CORROSIVE and RADIOACTIVE placards (black and yellow, respectively) must extend only to the inner border.

(e) *Form identification.* A placard may contain form identification information, including the name of its maker, provided that information is printed outside of the solid line inner border in no larger than 10-point type.

(f) *Exceptions.* When hazardous materials are offered for transportation or transported under the provisions of subpart C of part 171 of this subchapter, a placard conforming to the specifications in the ICAO Technical Instructions, the IMDG Code, or the Transport Canada TDG Regulations (IBR, see §171.7 of this subchapter) may be used in place of a corresponding placard conforming to the requirements of this subpart. However, a bulk packaging, transport vehicle, or freight container containing a material poisonous by inhalation (see §171.8 of this subchapter) must be placarded in accordance with this subpart (see §171.23(b)(10) of this subchapter).

(g) *Trefoil symbol.* The trefoil symbol on the RADIOACTIVE placard must meet the appropriate specification in appendix B of this part.

[Amdt. 172-123, 55 FR 52601, Dec. 21, 1990, as amended at 56 FR 66260, Dec. 20, 1991; 57 FR 45460, Oct. 1, 1992; Amdt. 172-143, 60 FR 50305, Sept. 28, 1995; 65 FR 50460, Aug. 18, 2000; 66 FR 33426, June 21, 2001; 66 FR 44255, Aug. 22, 2001; 67 FR 15743, Apr. 3, 2002; 70 FR 34075, June 13, 2005; 69 FR 64473, Nov. 4, 2004; 72 FR 25176, May 3, 2007; 76 FR 43528, July 20, 2011; 76 FR 56314, Sept. 13, 2011; 80 FR 1151, Jan. 8, 2015]

EMERGENCY RESPONSE INFORMATION

FIREWORKS, UN0335, EXPLOSIVE 1.3G

No chemical composition is release or exposed during normal handling, storage, and transportation. In the event of a vehicle fire that reaches the cargo area, the fireworks are likely to ignite. The individual fireworks will explode rapidly, spreading burning particles over a several hundred foot area. A mass explosion is possible, particularly with large quantities of fireworks, and precautions should be taken in the even that one does occur. Smoke and potentially irritation gasses will be produced in a fire. If the Fireworks are spilled as the result of an accident but do not ignite, they can safely be picked up and repackaged. The area should be kept cleared of unnecessary people while this is being done.

EMERGENCY ACTION

In case of fire, stop traffic and begin to clear the area for 2500 feet (1/2 mile) in all directions. Keep unnecessary people away.

Do not fight fire in cargo area. Try to prevent other types of fire form reading the cargo area. Self-contained breathing apparatus (SCBA) and structural firefighter's protective clothing will provide some limited protection. Firefighters should retreat if fire approaches cargo area.

FOR EMERGENCY RESPONSE INFORMATION DURING TRANSPORTATION CALL :

MONDAY – FRIDAY 8:00 AM TO 5:00 PM ESATERN TIME 1-800-238-5114. (PYRO SHOW'S EAST COAST OFFICE)

ALL OTHER TIMES: 1-800-255-3924

(ChemTel, Inc. Emergency Response Assistance Contract # MIS2595697)

FIRE

Truck Fire: (other than cargo area): Flood with water. Tire fires may start again. Unhook and separate tractor from trailer, if possible.

Cargo Fire: **DO NOT** move cargo or vehicle if cargo has been exposed to heat.

DO NOT fight fire if and when it reaches cargo. Withdraw from area and let fire burn. Use firefighting team to prevent spread of fire to adjacent structures and materials.

Promptly isolate the scene by removing all persons from the vicinity of the incident. First, move people out of the line of sight of the scene and away from windows. Obtain more information from competent authorities listed on the shipping papers.

SPILL OF CARGO

Shut of all ignition sources. There shall be not flares, smoking, tools capable of producing sparks, or flames in the vicinity of the spilled material. Cautiously pick up the spilled devices and place them in cardboard cartons.

FIRST AID

Call emergency medical care. Use first aid treatment according to the nature of the injury.

100 Air Mile Daily Driver Record

NAME: Jesse Salvatori
 TRUCK #: P-36
 Trailer #: PST-15

CITY, STATE: LaFayette, TN

☒ EQUIPMENT
☐ 1.4G
☒ 1.3G

SIGNATURE
ON-ROUTE COMMUNICATION RECORD
 SHIPPER'S # / BOL: 17-TN-584-348-1
 NAME OF DISPATCHER: Keya Suttles
 DEPARTURE TIME: 8:00 AM ARRIVAL TIME: 2:45 PM

DRIVER STATEMENT OF ON-DUTY / WORK HOURS
 Record of all hours for any compensated work during the preceding 7 days including non-driving work.

Day # 1 = Yesterday	1	2	3	4	5	6	7
WEEKDAY:	Fri	TH	Wed	Tues	Mon	Sun	Sat
DATE:	1-12-18	1-11-18	1-10-18	1-9-18	1-8-18	1-7-18	1-6-18
TIME: Reported to Duty	8:00	8:00	8:00	8:00	8:00	N/A	N/A
TIME: Relieved from Duty	4:00	4:00	4:00	4:00	4:00	N/A	N/A
TOTAL HRS PER DAY WORKED	8	8	8	8	8	8	8
TOTAL WEEKLY HOURS WORKED (add days 1-7 totals):							56

I hereby certify that the information given is correct to the best of my knowledge and belief.
 SIGNATURE: [Signature] TODAY'S DATE: 1-13-18

DRIVER STATEMENT OF ON-DUTY / WORK HOURS
 I AM DRIVING UNDER THE SHORT HAUL EXEMPTION -- SEE RECORDS BELOW (100 Air Miles)
☒ I AM DRIVING UNDER THE TRAILER 8-DAY SHORT TERM RENTAL EXEMPTION (Rental Trucks)
☐ I AM DRIVING UNDER THE 8 DAY ELD EXEMPTION -- SEE ATTACHED LOG (8 Day Rule)
☐ I AM DRIVING USING A REQUIRED ELD

PYRO SHOWS, INC.

Hours of Service Policy & Disciplinary Program

This policy and disciplinary program is intended to keep Pyro Shows' drivers and their surroundings safe, while also complying with FMCSA regulation-CFR Part 395.

Hours of Service Policy

- Drivers may drive a total of 11 hours in one day.
- Drivers may not drive after the 14th hour of "on duty" time. Therefore, drivers can log more than 14 hours of "on duty" time in one day, so long as the driver does not do any CMV driving after the 14th hour of "on duty" time.
- At the conclusion of each day, drivers must have 10 or more hours "off duty" before they can return to "On Duty" or "Driving" status.
- Drivers may be "on duty" for a total of 60 hours in a 7 day period or 70 hours in an 8 day period. Once the driver has reached his total number of hours(60 in 7 days or 70 in 8 days), he may restart his driving period after 34 consecutive hours of "off duty" time.
- Pyro Shows' management must confer with drivers before sending them on the road to verify they have enough available hours to complete the task at hand.

Drivers' Logs

- Drivers' logs must be neat and legible, filled out correctly, and signed.
- Drivers must show 7 days prior to the current day.
- At each stop or change of duty status, the log must be updated.
- Logs should reflect breaks, fuel stops, inspections, etc. Mileage is encouraged to be logged at each change of duty status. The town and state where the change of duty status occurs must be logged.
- Driver logs must be turned in no later than 1 week after the end of a route/trip.
- When turning in logs to office administration, copies of supporting documents (fuel receipts, hotel bills, credit card statements, inspections, etc.) should be made and kept in that particular driver's DQ file.
- In a team driver scenario, both drivers must keep separate logs. Both logs must coincide and agree with each other.

Hours of Service Disciplinary Program

- Pyro Shows Management will check driver's logs to ensure compliance with Pyro Shows' Hours of Service Policy.
- Drivers will be notified if their log book is in violation of Pyro Shows' Hours of Service Policy.
- Drivers will be instructed on how to prevent a violation in the future.
- If errors and violations continue concerning hours of service/log books, appropriate disciplinary action will result based on Pyro Shows' discretion.

COBRA Common Troubleshooting Reference

The purpose of this document is to outline the common troubleshooting issues per device.

Device	Issue	Solution
Any	Er3 displaying on 7-segment displays	This is a stuck button error code. Make sure no buttons are pressed while the unit is powering on.
Any	Units not SYNCED or SYNCING	Please see http://www.cobrafiringsystems.com/sync to learn how to sync. Follow this procedure closely as it's commonly minor user error when this fails to occur.
Module	Er1 or Er2 displaying on 7-segment displays	1) Check battery orientation and power levels. 2) Confirm correct voltage mode. This is the number (9.0, 12.0, 14.8, 18.0, or 24.0) that displays during power up. 9V modules should display 9.0. LiPo modules should display 14.8. To change, press TEST and CH+ or TEST and CH- to toggle the mode. Re-start the module. 3) If 2P0 displays during power up AND module has cues wired, try to remove wired cues as you may have a bad cue. If error does not appear if that cue is not wired, then please don't use this cue during the show.
Module	Er5 displaying on 7-segment displays	Re-sync the module to the remote. See http://www.cobrafiringsystems.com/sync . If this does not resolve issue, confirm the firmware versions match on the remote and module. These are the first three numbers displayed when powering on.
Remote	Key switch broken	If you broke the key switch on the remote, it can be hot-wired as a short term solution. To perform this, remove the back half enclosure and cut the two wires that goto the key switch. Then, strip back the insulation, connect the wires, and use tape to shield them. You can insert the batteries into the remote to power on.
Remote	Lo repeatedly flashing	1) If Lo flashes and an A## value does not display after, then your 18R or 18R2 has a power level of P3 or lower. Replace your remote batteries. 2) If Low flashes followed by A##, then the module with address A##, for example, A01, has a 1P3 or lower. Check and replace the 1P battery. To determine address on a module, press and release the TEST button on the module.
Remote	ARM LED does not stop blinking on 18R or 18R2	This means that one or more modules that were recognized in TEST mode, are not acknowledging as armed in ARM mode. When this happens, the 18R or 18R2 will display the module address as A## to inform you which module is not armed. To determine a module's address, press TEST on the module. This can occur for one of the following reasons: 1) The module key is in the TEST and not ARM position. 2) If you are running 5.0.0 or 5.0.2, power off and on the module. 3) The module key is in the ARM position, but there is something wrong with the key switch that makes the module think it's key is in the TEST position. If you restart the module in ARM and the 1-18 LEDs display all green and all red, then it thinks the key is in the TEST position. You need to swap the key switch, module, or hot-wire the module. See http://www.cobrafiringsystems.com/hotwire18m.jpg.
Remote	Lo Ant repeatedly displaying	This means that one or more of your modules have a low signal. 0 is perfect signal, -99 is bad signal. If you are running 4.0.0, this displays for any signal between -65 and -99. If you are running 5.0.0+, this displays for any signal between -75 and -99. Any signal between 0 and -75 is acceptable. After Any is displayed, the module address is displayed to identify which module has low signal. In 5.0.0+, the module address and then channel is displayed. To resolve, find the module in question and try to improve line of site by raising the module removing barriers, and obtaining better line of site. Confirm the antenna is tight, try replacing the antenna. If you are operating 5.0.0+, you can use other modules as signal repeaters to improve signal.

Device	Issue	Solution
Remote	Green continuity LEDs blinking	This occurs when you have multiple modules on the same channel and partial continuity on each module. This is normal behavior assuming you intentionally have multiple modules on the same channel. To view continuity on each module, repeated press the TEST button on the 18R2 and the module address and associated continuity will display. To determine a module's address, press TEST on the module.
Remote	PAU displaying when trying to start the script	It's likely that you are running 5.0.0 or greater and you had defined a trigger confirmation in your script. In 5.0.0+, this argument is now the deadman argument. This was likely not intended, but in order for the script to fire, you need to press and hold the confirmation / deadman button throughout the script.
Remote	All LEDs go red and Er 50 is displayed when syncing	You have maxed out the total number of module addresses (200) which you can SYNC to a remote. You need to force un-sync the remote only, then re-sync your modules. The instructions to perform this on the 18R or 18R2 varies by firmware version. In 3.0.3 or earlier, press SYNC for 10+ seconds. In 4.0.0, press SYNC for 30+ seconds. In 5.0.0+, press CH+ and CH- for 30+ seconds. In all cases, the SYNC LED will flash a few times when complete. Once done, re-sync your units.
Remote	SP displaying at bottom of 18R2 when script is started or playing	This means the script has a STEP event defined and the STEP button must be pressed to fire the current event in the script.
Remote	No modules appearing on 18R2	This can happen for several reasons. 1) When the 18R2 first arms, it's common to see 0 appear on the 18R2 and for this to repeat for a while. If you have higher module counts, this is normal as the 18R2 ARM LED will blink. You should have all modules appear in about 1-2 seconds per module. Be patient and wait for the modules to load. 2) Confirm your modules are in SYNC. The SYNC LED should be blinking on the modules. If not, see http://www.cobrafiringsystems.com/sync 3) If you are running 5.0.0, if no modules load or if all modules are not responding, please power off all modules and the 18R or 18R2. Then, power on your systems from scratch.
Remote	Script not starting	Make sure the script designer has provided you the correct trigger channel and that your 18R2 is on the correct channel. If the script was created with Finale Fireworks, the trigger channel is c00 and the trigger button is 1. Make sure your remote is on channel 00 and not 01 if this is the case.
Audio Box	Audio Box	The audio file and 18R2 should be dry run before every show. If this did not occur, there are a few reasons why the Audio Box may not be starting with the script. 1) If your running 3.0.3, the audiofile must be named audiobox.mp3. In some cases, users will type the .mp3 extension into the filename causing this to be audiobox.mp3.mp3. Make sure the .mp3 does not exist in the filename. 2) If you are running 4.0 or greater, make sure the audio filename defined in the script, matches the audio filename on the USB drive. Also, make sure the total characters of the filename are less than 12 characters including the .mp3 extension. Also, make sure there are no spaces or special characters in the filename. 3) The audio .mp3 file was not properly formatted using Audacity per the audio box instructions. See the appendix in http://www.cobrafiringsystems.com/static/userguides/COBRAAudioBoxDetailedUserGuide.pdf. In the worst case situation, you can press the AUDIO TEST button on the audio box to start the audio. If this does not play the audio, make sure the audiofile is named audiobox.mp3 as stated in #1 above.

COBRA Show Problem - What to do?

The purpose of this document is provide instructions on how to best handle any type of issue on your show. Issues can be caused by the operator, equipment, environment or other factors. It's important to treat the shoot site as a crime scene so that you can have as much information as possible to allow us to work with you to resolve the issue.

What was the problem?

Please try to describe as best as possible what issue happened during the show. For example, did a module not fire, did a cue not fire? Please use as much description as possible to detail the issue down to the specific cue #, module address, or whatever may be relevant.

In order to have as much evidence / information as possible, please perform the following steps:

Label / Quarantine the Equipment

Place a piece of tape and use a marker to label any equipment with the specifics of what did not happen. For example, label a module "Cue #1 did not fire".

Save the E-matches or Talons

Save any e-matches, MJG initiators, or Talon igniters that may not have fired. We will want to test these afterwards.

Take a Video

Use your camera phone to take a video of the module, remote, or any equipment as the problem happens, or after the problem happens. Small details such as a crossed wire, error codes, or information displayed on the module can be critical to resolving.

Keep the Batteries

Do not throw away the batteries or remove them from the module in order to preserve their original 1P or 2P locations. We will want to test these later.

Do not Re-sync or Clear any Scripts from Remote

Do not un-sync, re-sync, or clear any scripts from the remote. Keep the remote as-is and don't make any changes. We'll want to test everything as it was during the show.

Re-call Information and Write it Down

Re-call the events of the show leading into the issue and make detailed notes as soon as possible. Our memories may change as time goes on and it's critical to note everything immediately.

Contact Scott Smith at ssmith@cobrafiringsystems.com or 518-222-7410

Contact Scott to provide him this information. He can help you by asking the correct questions and providing further assistance to ensure we can avoid any further issues, whether operator or equipment. He is genuinely interested in helping as he is on our team.

SAFETY DATA SHEET

Conforms to OSHA'S Hazard Communication Standard 29 CFR 1910.1200

Section I-Identification

FIREWORKS 1.3G UN0335

Manufacturer Name and Address

Dancing Fireworks Group Co. Ltd.
Lihua Village, Yanxi Town, LiuYang, Hunan, China

ChemTel 24 Hour

Emergency Response: Domestic: 1-800-668-7809
International: 1-800-668-7809

Telephone Number: 86-731-83666268

Data Prepared: May 31st, 2015

Section II-Hazard(s) Identification



DANGER: Explosive; fire, blast or projection. Keep away from heat/sparks/open flames/hot surfaces. No Smoking. Contains pyrotechnic composition; a solid mixture of oxidizer and fuel that burns if ignited. These items are classified as Fireworks, 1.3G, UN0335, PGII, Explosives by the U.S. Department of Transportation. No chemical components are released during normal handling and storage of shells. During function, gases and smoke are produced that may contain various oxides, chlorides, and other gaseous and particulate products.

SECTION III-Composition/Information on Ingredients

Exact Percentage (Concentration) of composition has been withheld as a trade secret, and or is used for a group of substantially similar mixtures:

Red Star: Potassium Perchlorate, Magnalium, Resinox, Strontium Carbonate, Shellac, Polyvinyl chloride.

Green Star: Potassium Perchlorate, Barium Nitrate, Magnalium, Charcoal, Resinox, Polyvinyl chloride.

Blue Star: Potassium Perchlorate, Sulfur, Magnalium, Copper Oxide, Resinox.

Yellow Star: Potassium Perchlorate, Strontium Carbonate, Magnalium, Resinox, Cryolite.

Purple Star: Potassium Perchlorate, Strontium Carbonate, Magnalium, Resinox, Copper Oxide, Polyvinyl chloride, Shellac.

Silver Star: Potassium Perchlorate, Aluminum, Magnalium, Resinox.

White Star: Potassium Perchlorate, Magnalium, Resinox.

Gold Star: Potassium Perchlorate, Charcoal, Magnalium, Resinox, Polyvinyl chloride, Cryolite.

Light Blue Star: Potassium Perchlorate, Charcoal, Magnalium, Resinox, Polyvinyl chloride, Copper Oxide.

Sea Blue Star: Potassium Perchlorate, Barium Nitrate, Magnalium, Resinox, Copper Oxide, Chlorinated Rubber.

Lemon Star: Potassium Perchlorate, Barium Nitrate, Charcoal, Magnalium, Resinox, Polyvinyl chloride, Cryolite.

Pink Star: Potassium Perchlorate, Magnalium, Resinox, Strontium Carbonate, Sulfur, Polyvinyl chloride, Copper Oxide, Shellac.

Orange Star: Potassium Perchlorate, Strontium Carbonate, Magnalium, Resinox, Polyvinyl Chloride, Shellac, Cryolite.

Aqua Star: Potassium Perchlorate, Barium Nitrate, Magnalium, Resinox, Copper Oxide, Chlorinated Rubber.

Chrysanthemum: Potassium Perchlorate, Potassium Nitrate, Sulfur, Charcoal, Flour.

Crossette: Potassium Perchlorate, Sulfur, Magnalium, Charcoal, Potassium Nitrate.

Salute: Potassium Perchlorate, Sulfur, Magnalium, Titanium.

Wave: Potassium Perchlorate, Sulfur, Magnalium, Charcoal, Cryolite.

Silver Crown: Potassium Perchlorate, Magnalium, Aluminum, Resinox.

Brocade crown: Potassium Nitrate, Sulfur, Charcoal, Dextrine, Titanium.

Crackling: Magnalium, Flour, Copper Oxide, Bismuth Oxide.

Time Rain: Magnalium, Flour, Copper Oxide, Bismuth Oxide, Titanium.

Red Gamboge: Potassium Perchlorate, Potassium Nitrate, Sulfur, Charcoal.

Diadem Chrys.: Potassium Nitrate, Sulfur, Charcoal.

Red Gamboge Crown: Potassium Perchlorate, Sulfur, Charcoal, Flour.

Gold Willow: Potassium Perchlorate, Sulfur, Charcoal.

Coconut Tree: Potassium Nitrate, Sulfur, Charcoal, Magnalium, Titanium.

Strobe: Potassium Perchlorate, Potassium Nitrate, Barium Nitrate, Sulfur, Charcoal, Magnalium, Flour, Copper Oxide.

Gold Kamuro: Potassium Nitrate, Sulfur, Charcoal, Magnalium, Resinox.

Fish: Potassium Perchlorate, Barium Nitrate, Magnalium, Resinox, Cryolite.

Bee: Potassium Perchlorate, Magnalium, Resinox, Aluminum.

Falling Leaves: Potassium Nitrate, Sulfur, Aluminum, Magnalium, Resinox.

Boiling Point: N/A

Vapor Pressure (mm Hg.): N/A

Vapor Density (Air=1): N/A

Solubility in Water: Slight

Appearance and Odor: All pyrotechnic composition is contained within hard cardboard or paper casings that may be shaped as cylinders, balls or tubes.

Specific Gravity (H₂O=1): N/A

Melting Point: N/A

Evaporation Rate (Butyl Acetate=1): N/A

Section IV-First Aid Measures

Call emergency medical care. Use first aid treatment according to the nature of the injury.

Section V-Fire-Fighting Measures

In case of fire, evacuate area. Do NOT fight fire when fire reaches explosives. Explosion risk in case of fire.

Truck fire (other than cargo area): Flood with water. Tire fires may re-start. If possible, unhook and separate tractor from trailer. Remove vehicle that is not involved in fire from fire area if you can do so without risk. If cargo area is exposed to heat and flames, direct water spray on outside of container to cool it down. Continue to spray until well after the fire is out.

Cargo fire **Do not** move cargo or vehicle if cargo has been exposed to heat. Withdraw from area if and when the fire reaches cargo and let fire burn. Use firefighting team to prevent spread of fire to adjacent structures and materials. Promptly isolate the scene by removing all persons from the vicinity of the incident. First, move people out of line-of-sight of the scene and away from windows. Obtain more information from appropriate authorities listed on the shipping papers.

Self-contained breathing apparatus (SCBA) and structural firefighter's protective clothing will provide some limited protection. Firefighters should retreat if fire approaches cargo area, and use unmanned hose holder to direct water spray on fire.

For additional information, call the shipper using the emergency telephone number listed on the shipping papers; if there is no answer; call American Pyrotechnics Association's 24-hour number (800-255-3924).

Section VI-Accidental Release Measures

Cargo Spill: ELIMINATE all ignition sources. There shall be no flares, smoking, and tools capable of producing sparks, or flames in the vicinity of the spilled material. Cautiously pick up the spilled devices and place them in cardboard cartons. Do not touch or walk through spilled material.

Waste Disposal Method: Soak any exposed chemical composition with water; sweep up with natural fiber brush and dispose of by burning in compliance with local, state, and federal regulations.

Section VII-Handling and Storage

Keep fireworks cool, dry, and well ventilated area. Avoid impact with shipping cartons. Fireworks must be stored and transported in accordance with local, state, and federal regulations. Protect against physical damage and moisture. Fireworks should be isolated from all heat sources, sparks, and open flames. No smoking.

Other Precautions: Fireworks 1.3G UN0335 can cause serious injury or death. They should only be handled by properly trained and qualified personnel. When shooting these fireworks, personnel should wear proper eye protection, head protection and non-synthetic clothing.

Section VIII-Exposure Controls/Personal Protection

Respiratory Protection (Specify Type): None when handling finished item.

Ventilation: N/A

Local Exhaust: N/A

Mechanical (General): N/A

Special: N/A

Other: N/A

Protective Gloves: None required

Eye Protection: When shooting Fireworks 1.3G

Other Protective Clothing and Equipment: Protective head gear and non-synthetic clothing when shooting fireworks 1.3G

Section IX-Physical and Chemical Properties

Boiling Point: N/A

Specific Gravity (H₂O=1): N/A

Vapor Pressure (mm Hg.): N/A

Melting Point: N/A

Vapor Density (Air=1): N/A

Evaporation Rate (Butyl Acetate=1): N/A

Solubility in Water: Slight

Appearance and Odor: All pyrotechnic composition is contained within hard cardboard or paper casings that may be shaped as cylinders, balls or tubes.

Flash Point: N/A

Flammable Limits: N/A

LEL: N/A

UEL: N/A

Extinguishing Media: Do not attempt to fight fire in the vicinity of display fireworks – evacuate area. Materials are self-oxidizing.

Special Fire Fighting Procedures: Evacuate fire area immediately and seek shelter. Follow established emergency action plan.

Unusual Fire and Explosion Hazards: Display fireworks may mass explode in a fire situation.

Section X-Stability and Reactivity

Stability: Stable

Conditions To Avoid: Storage at temperatures above 120° F. Open flames, smoking, moisture, friction or impact in the vicinity of stored fireworks.

Incompatibility (Materials to Avoid): Do not allow fireworks to get wet.

Hazardous Decomposition or Byproducts: Smoke generated during use of devices may contain small amounts of carbon

monoxide, hydrogen sulfide, and nitrogen oxides. Avoid prolonged inhalation.

Hazardous Polymerization: Will not occur

Section XI-Toxicological Information

Route(s) of Entry: Inhalation? N/A Skin? N/A Ingestion? N/A

Health Hazards (Acute and Chronic): Exposure to finished items does not pose any health hazard. However, ground level smoke generated during shooting of public displays may contain gasses which may cause irritation of eyes or mucous membrane. Prolonged inhalation of smoke should be avoided.

Carcinogenicity: No

NTP? No

ARC Monographs? No

OSHA Regulated? No

Signs and Symptoms of Exposure: Prolonged exposure to smoke generated during shooting of shells may cause shortness of breath and irritation of eyes and mucous membranes.

Medical Conditions Generally Aggravated by Exposure: Persons with pre-existing respiratory conditions (i.e. asthma, emphysema, etc.) should avoid inhalation of smoke.



VELVET SHIELD

CARBONIZED FIBER WELDING PROTECTION

Welding Blanket

Lightweight, soft and flexible Welding Blanket material, providing incredible ease of use, while withstanding high heat.*

- Velvet Shield® welding blankets are made with a carbonized fiber fabric that was developed from NASA technologies and is fire and heat resistant.
- Versatile blankets are soft and lightweight, providing incredible ease-of-use.
- Provides protection from sparks and spatter.
- Easy to clean; just shake, vacuum or blow metal particles out.
- Available in several stock Blanket sizes, 18"x18" Pad, and 50-yard rolls.

Operating Temperature 1800° F

Also available:
18" x 18"
Velvet Shield
Pad



The softest
and toughest
welding
protection ever
— up to
1800°F

Material	Size
316	6' x 8'
Part No.:	
316-6X8 (31686)	

Approved Welding Pad



Steiner Industries 5801 North Tripp Avenue Chicago, IL 60646-6013

Phone: (800) 621-4515 Fax: (773) 588-3450

info@steinerindustries.com www.steinerindustries.com

* NOTE: See back for instructions and warnings.

VELVET SHIELD PRODUCTS

INSTRUCTIONS FOR USE:

- 1) Velvet Shield® products are designed to be used only for welding, brazing and soldering. The material is not intended for use in high soaking temperatures (i.e. ovens or confined spaces where temperatures exceed 200°F) OR severe use conditions where excessive molten metal slag or heavy grinding operations would cause the blanket or pad to exceed their maximum use temperature.
- 2) Carefully check to be sure that the areas to be protected are completely covered and sparks cannot get under the blanket or pad.
- 3) Check the blanket or pad for holes or tears that would allow sparks to reach the area being protected.
- 4) Avoid contact with flammable liquids that would ignite if exposed to sparks, spatter or heat.
- 5) Do not clean with water or other liquids.
- 6) Velvet Shield® products must be positioned at least one foot away from the welding torch.
- 7) Not recommended for grinding applications as metal shavings and particles are easily embedded within the Velvet Shield® material.

WARNING:

VELVET SHIELD® BLANKETS, PADS AND/OR ROLLS SHOULD BE USED AS WELDING BLANKETS, PADS OR ROLLS ONLY. THEY ARE NOT INTENDED FOR USE IN STRESS RELIEF, HEAT TREATING, AS AN INSULATOR, OR ANY OTHER APPLICATION, OTHER THAN WELDING APPLICATIONS.

VELVET SHIELD® PRODUCTS SHOULD NOT BE EXPOSED TO TEMPERATURES EXCEEDING 200°F FOR EXTENDED PERIODS. THE VELVET SHIELD® PRODUCT SHOULD NOT BE DIRECTLY EXPOSED TO, OR IN DIRECT CONTACT WITH, THE PRIMARY HEAT SOURCE.

DO NOT USE A VELVET SHIELD® PRODUCT WHEN WET. IT WILL CONDUCT HEAT AND ELECTRICITY.

USE CAUTION TO PREVENT VELVET SHIELD® PRODUCTS FROM COMING INTO ACCIDENTAL CONTACT WITH FLAMMABLE LIQUIDS THAT WOULD IGNITE IF EXPOSED TO SPARKS.

OXY-FUEL OR THE PLASMA CUTTING PROCESS FLAME, PILOT ARC AND CUTTING STREAM GENERATE TEMPERATURES ABOVE 3000°F, WELL ABOVE THE MAXIMUM RATING OF THE VELVET SHIELD MATERIAL.

Use of this product in a manner not consistent with the operating instructions may cause product failure. Highly localized concentrations of molten metal, grinding particles or debris may cause product failure and may support combustion.

* Maximum allowable service temperature is 1800°F, and 3000°F for short duration.

DISCLAIMER:

THIS PRODUCT IS WARRANTED TO BE FREE FROM DEFECTS IN MANUFACTURING ONLY. BECAUSE APPLICATIONS VARY, THE USER MUST DETERMINE PRODUCT SUITABILITY FOR A SPECIFIC APPLICATION AND THE USER ASSUMES ALL RISKS IN CONNECTION THEREWITH. A CAREFUL ANALYSIS SHOULD BE MADE BEFORE SELECTING PROTECTIVE EQUIPMENT FOR EACH PARTICULAR APPLICATION. AS A RESULT OF ONGOING RAW MATERIAL SPECIFICATION CHANGES, RECOMMENDED APPLICATIONS, TEMPERATURES AND OTHER STATED SPECIFICATIONS ARE PRESENTED AS GENERAL GUIDELINES ONLY AND ARE PROVIDED WITHOUT ANY GUARANTEE OR RESPONSIBILITY ON THE PART OF STEINER INDUSTRIES. STEINER INDUSTRIES RESERVES THE RIGHT TO CHANGE RECOMMENDATIONS AND SPECIFICATIONS AS FURTHER KNOWLEDGE IS GAINED. WHILE STEINER INDUSTRIES BELIEVE ALL OF THE INFORMATION TO BE CORRECT, IT IS NOT RESPONSIBLE FOR TYPOGRAPHICAL ERRORS.

If you have any questions, contact Steiner Industries, Inc. at (800) 621-4515 for Velvet Shield® Material Safety Data Sheets or visit our website at www.steinerindustries.com.

Steiner Industries 5801 North Tripp Avenue Chicago, IL 60646-6013
 Phone (800) 621-4515 Fax (773) 588-3450
info@steinerindustries.com www.steinerindustries.com

Approved Welding Pad





Fireworks Display Checklist (Operator)

Display Pre-Set Up	1. County permit has been approved and issued.	☐
	2. Confirm actual measurements of the display site match measurements submitted on the county permit application and distances are appropriate for the sizes of devices being used.	☐
	3. Confirm there are no additional hazards located in or near the display site.	☐
	4. The location of the spectator area meets the required distances.	☐
	5. Ensure all smoking materials, matches, lighters, or open flames are prohibited within 50 feet of fireworks.	☐
	6. All North Carolina Office of State Fire Marshal issued permits are visible.	☐
	7. All assistants are permitted or on-site certified.	☐
Display Set Up	8. All fireworks, launch equipment, and pyrotechnic materials are protected from inclement weather and kept dry at all times.	☐
	9. Ensure only authorized personnel are allowed at the discharge site during set up.	☐
	10. No personnel at the discharge site are under the influence of alcohol, narcotics, or medication that could adversely affect judgment, mobility, or stability.	☐
	11. Verify all personnel are aware of and follow safe handling practices and loading procedures for all pyrotechnic devices.	☐
	12. Verify no sources of ignition are present in the discharge site. Hazards for electrically fired displays may include exposed battery terminals, cell phones, or other electronic or rechargeable devices. Wireless remotely fired displays may be sensitive to other radio frequency (RF) generating devices such as cell phones or two-way radios.	☐
	13. All mortars and racks are made of approved materials, and are of sufficient strength, length, and durability to allow shells to be propelled to safe deflagration heights.	☐
	14. All shells properly fit mortars and all larger shells are pre-loaded as required.	☐
	15. All mortars, mortar racks, bundles, pre-loaded box items, cakes, candles, and ground displays are thoroughly inspected and deemed inherently stable.	☐



Fireworks Display Checklist - continued (Operator)

Display Firing	16. No personnel at the discharge site are under the influence of alcohol, narcotics, or medication that could adversely affect judgment, mobility, or stability.	☐
	17. Verify all personnel understand their assigned duties and responsibilities during the display.	☐
	18. Ensure only necessary personnel are located within the discharge area while the display is in progress.	☐
	19. Only flashlights or other non-incendive lighting devices are used in firing and ready box areas.	☐
	20. Personnel in the discharge area are wearing long-sleeved and long-legged clothing made of cotton, wool or similar flame resistant cloth.	☐
	21. Personnel in the discharge area are using all required personal protective equipment including head, eye, hearing, and foot protection.	☐
	22. Fire service and EMS are present and in appropriate locations.	☐
Post-Display	23. Verify access to the display site is restricted and that no unauthorized persons or vehicles are located within the display site.	☐
	24. Verify sources of ignition are terminated such as fusees or portfires are extinguished or electrical firing panels are disconnected.	☐
	25. Confirm display site access remains restricted while being inspected for unfired or malfunctioned pyrotechnic devices.	☐
	26. All discharge areas are treated as if unfired or malfunctioned pyrotechnic devices are present.	☐
	27. After adequate time has elapsed all mortars, box items, cakes, candles, and ground display pieces are cautiously inspected for any unfired pyrotechnic devices.	☐
	28. Any unfired or malfunctioned pyrotechnic devices are properly handled and/or properly packaged for return to the supplier.	☐

SAFETY REGULATIONS PART 397

General

§397.2 Compliance with Federal motor carrier safety regulations.

A motor carrier or other person to whom this part is applicable must comply with the rules in Part 390 through 397, inclusive, of this subchapter when he/she is transporting hazardous materials by a motor vehicle which must be marked or placarded in accordance with §177.823 of this title.

[37 FR 18080, Sept. 7, 1972]

§397.3 State and local laws, ordinances and regulations.

Every motor vehicle containing hazardous materials must be driven and parked in compliance with the laws, ordinances, and regulations of the jurisdiction in which it is being operated, unless they are at variance with specific regulations of the Department of Transportation which are applicable to the operation of that vehicle and which impose a more stringent obligation or restraint.

§397.5 Attendance and surveillance of motor vehicles.

(a) Except as provided in paragraph (b) of this section, a motor vehicle which contains a Division 1.1, 1.2, or 1.3 (explosive) material must be attended at all times by its driver or a qualified representative of the motor carrier that operates it.

(b) The rules in paragraph (a) of this section do not apply to a motor vehicle which contains Division 1.1, 1.2, or 1.3 material if all the following conditions exist—

(b)(1) The vehicle is located on the property of a motor carrier, on the property of a shipper or consignee of the explosives, in a safe haven, or, in the case of a vehicle containing 50 pounds or less of a Division 1.1, 1.2, or 1.3 material, on a construction or survey site; and

(b)(2) The lawful bailee of the explosives is aware of the nature of the explosives the vehicle contains and has been instructed in the procedures which must be followed in emergencies; and

(b)(3) The vehicle is within the bailee's unobstructed field of view or is located in a safe haven.

(c) A motor vehicle which contains hazardous materials other than Division 1.1, 1.2, or 1.3, materials, and which is located on a public street or highway, or the shoulder of a public highway, must be attended by its driver. However, the vehicle need not be attended while its driver is performing duties which are incident and necessary to the driver's duties as the operator of the vehicle.

(d) For purposes of this section—

(d)(1) A motor vehicle is attended when the person in charge of the vehicle is on the vehicle, awake, and not in a sleeper berth, or is within 100 feet of the vehicle and has it within his/her unobstructed field of view.

(d)(2) A qualified representative of a motor carrier is a person who—

(d)(2)(i) Has been designated by the carrier to attend the vehicle;

(d)(2)(ii) Is aware of the nature of the hazardous materials contained in the vehicle he/she attends;

(d)(2)(iii) Has been instructed in the procedures he/she must follow in emergencies; and

(d)(2)(iv) Is authorized to move the vehicle and has the means and ability to do so.

(d)(3) A safe haven in an area specifically approved in writing by local, State, or Federal governmental authorities for the parking of unattended vehicles containing Division 1.1, 1.2, or 1.3 materials.

(e) The rules in this section do not relieve the driver from any obligation imposed by law relating to the placing of warning devices when a motor vehicle is stopped on a public street or highway.

[59 FR 63925, Dec. 12, 1994]

§397.7 Parking.

(a) A motor vehicle which contains Division 1.1, 1.2, or 1.3 materials must not be parked under any of the following circumstances—

(a)(1) On or within 5 feet of the traveled portion of a public street or highway;

(a)(2) On private property (including premises of a fueling or eating facility) without the knowledge and consent of the person who is in charge of the property and who is aware of the nature of the hazardous materials the vehicle contains; or

(a)(3) Within 300 feet of a bridge, tunnel, dwelling, or place where people work, congregate, or assemble, except for brief periods when the necessities of operation require the vehicle to be parked and make it impracticable to park the vehicle in any other place.

(b) A motor vehicle which contains hazardous materials other than Division 1.1, 1.2, or 1.3 materials must not be parked on or within five feet of the traveled portion of public street or highway except for brief periods when the necessities of operation require the vehicle to be parked and make it impracticable to park the vehicle in any other place.

397.11 Fires.

- (a) A motor vehicle containing hazardous materials must not be operated near an open fire unless its driver has first taken precautions to ascertain that the vehicle can safely pass the fire without stopping.
- (b) A motor vehicle containing hazardous materials must not be parked within 300 feet of an open fire.

§397.13 Smoking.

No person may smoke or carry a lighted cigarette, cigar, or pipe on or within 25 feet of—

- (a) A motor vehicle which contains Class 1 materials, Class 5 materials, or flammable materials classified as Division 2.1, Class 3, Divisions 4.1 and 4.2; or
- (b) An empty tank motor vehicle which has been used to transport Class 3, flammable materials or Division 2.1 flammable gases, which, when so used, was required to be marked or placarded in accordance with the rules in §177.823 of this title.

[59 FR 63925, Dec. 12, 1994]

§397.15 Fueling.

When a motor vehicle which contains hazardous materials is being fueled—

- (a) Its engine must not be operating; and
- (b) A person must be in control of the fueling process at the point where the fuel tank is filled.

§397.17 Tires.

- (a) A driver must examine each tire on a motor vehicle at the beginning of each trip and each time the vehicle is parked.
- (b) If, as the result of an examination pursuant to paragraph (a) of this section, or otherwise, a tire is found to be flat, leaking, or improperly inflated, the driver must cause the tire to be repaired, replaced, or properly inflated before the vehicle is driven. However, the vehicle may be driven to the nearest safe place to perform the required repair, replacement, or inflation.
- (c) If, as the result of an examination pursuant to paragraph (a) of this section, or otherwise, a tire is found to be overheated, the driver shall immediately cause the overheated tire to be removed and placed at a safe distance from the vehicle. The driver shall not operate the vehicle until the cause of the overheating is corrected.

- (d) Compliance with the rules in this section does not relieve a driver from the duty to comply with the rules in §§397.5 and 397.7.

[67 FR 62192, Oct. 4, 2002]

§397.19 Instructions and documents.

- (a) A motor carrier that transports Division 1.1, 1.2, or 1.3 (explosive) materials must furnish the driver of each motor vehicle in which the explosives are transported with the following documents:
 - (a)(1) A copy of the rules in this part;
 - (a)(2) [Reserved]
 - (a)(3) A document containing instructions on procedures to be followed in the event of accident or delay. The documents must include the names and telephone numbers of persons (including representatives of carriers or shippers) to be contracted, the nature of the explosives being transported, and the precautions to be taken in emergencies such as fires, accidents, or leakages.
- (b) A driver who receives documents in accordance with paragraph (a) of this section must sign a receipt for them. The motor carrier shall maintain the receipt for a period of one year from the date of signature.
- (c) A driver of a motor vehicle which contains Division 1.1, 1.2, or 1.3 materials must be in possession of, be familiar with, and be in compliance with
 - (c)(1) The documents specified in paragraph (a) of this section;
 - (c)(2) The documents specified in §177.817 of this title; and
 - (c)(3) The written route plan specified in §397.67.

[59 FR 63925, Dec. 12, 1994; 63 FR 33280, June 18, 1998]

Emergency Response
Explosives- Division 1.1, 1.2, 1.3, 1.5, or: Class A & B
UN0335, Fireworks, 1.3G, PG II
UN0333, Fireworks, 1.1G, PGII

CARGO Fires

- DO NOT fight fire when fire reaches cargo! Cargo may EXPLODE!
- Stop all traffic and clear the area for at least 1600 meters (1 mile) in all directions and let burn
- Do not move cargo or vehicle if cargo has been exposed to heat.

Tire or Vehicle Fires

- Use plenty of water -FLOOD it! If water is not available, use CO2, dry chemical or dirt.
- If possible, and WITHOUT RISK, use unmanned hose holders or monitor nozzles from maximum distance to prevent fire from spreading to cargo area.
- Pay special attention to tire fires as re-ignition may occur. Stand by with extinguisher ready

SPILL or LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded
- Do not touch or walk through spilled material.
- DO NOT OPERATE RADIO TRANSMITTERS WITHIN 100 meters (330 feet OF ELECTRIC DETONATORS.
- DO NOT CLEAN UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.

FIRST AID

- Move victim to fresh air, Call emergency medical care.
- Apply artificial respiration if victim is not breathing
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least for 20 minutes.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves

FIRE OR EXPLOSION

- MAY EXPLODE AND THROW FRAGMENTS 1600 meters (1 MILE) OR MORE IF FIRE REACHES CARGO.
- For information on "Compatibility Group" letters, refer to Glossary section in Emergency Response Guidebook.

HEALTH

- Fire may produce irritating, corrosive and / or toxic gases.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first.
- CALL CHEM-TEL'S 24- HOUR NUMBER (800) 255-3924
- Isolate spill or leak area immediately for at least 500 meters (1/3 mile) in all directions
- Move people out of line of sight of the scene and away from windows.
- Keep unauthorized personnel away.
- Stay upwind.
- Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters protective clothing will only provide limited protection.

EVACUATION

LARGE SPILL

- Consider initial evacuation for 800 meters (1/2 mile) in all directions.

Fire

- If rail car or trailer is involved in a fire and heavily encased explosives such as bombs or artillery projectiles are suspected, ISOLATE for 1600M (1 mile in all directions; also initiate evacuation including emergency responders for 1600M (1 mile) in all directions.
- When heavily encased explosives are not involved, evacuate the area for 800 meters (1/2 mile) in all directions

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

1 Identification

Product identifier

Fireworks, Division 1.3 Explosive

Trade name:

Fireworks, Display

Product code:

Fireworks, 1.3G UN0335

Recommended use and restriction on use
Recommended use: Explosive product for professional use for entertainment and technical purposes

Restrictions on use: Contact manufacturer/supplier

Details of the supplier of the Safety Data Sheet
Manufacturer/Supplier:

East Coast Pyrotechnics
 4652 Catawba River Road
 Catawba, SC 29704
 803-789-5733

Emergency telephone number:

ChemTel Inc.
 (800)255-3924, +1 (813)248-0585

2 Hazard(s) Identification

Classification of the substance or mixture

Expl. 1.3 H203 Explosive; fire, blast or projection hazard.

Label elements
GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:


GHS01

Signal word: Danger
Hazard statements:

H203 Explosive; fire, blast or projection hazard.

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P250 Do not subject to grinding/shock/friction.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P373 DO NOT fight fire when fire reaches explosives.

P370+P380 In case of fire: Evacuate area.

P372 Explosion risk in case of fire.

(Cont'd. on page 2)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 1)

- P401 Store in accordance with local/regional/national/international regulations.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Other hazards** There are no other hazards not otherwise classified that have been identified.

· **Explosive Product Notice**

PREVENTION OF ACCIDENTS IN THE USE OF EXPLOSIVES - The prevention of accidents in the use of explosives is a result of careful planning and observance of the best known practices. The explosives user must remember that he is dealing with a powerful force and that various devices and methods have been developed to assist him in directing this force. He should realize that this force, if misdirected, may either kill or injure both him and his fellow workers.

WARNING - All explosives are dangerous and must be carefully handled and used following approved safety procedures either by or under the direction of competent, experienced persons in accordance with all applicable federal, state, and local laws, regulations, or ordinances. If you have any questions or doubts as to how to use any explosive product, **DO NOT USE IT** before consulting with your supervisor, or the manufacturer, if you do not have a supervisor. If your supervisor has any questions or doubts, he should consult the manufacturer before use.

3 Composition/Information on ingredients

· **Chemical characterization:** Mixtures

· **Components:**

Components for product possessing only physical hazards do not require reporting. These components are considered proprietary.

4 First-aid measures

· **Description of first aid measures**

· **General information:**

Information is only applicable to product contents, and not to product as normally supplied. This information is applicable to damaged, leaking, or spilled product as contact with contents is possible under these conditions.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Wash with soap and water.

In case of minor burns, flush with cool water.

If skin irritation is experienced, consult a doctor.

· **After eye contact:**

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Unlikely route of exposure.

Do not induce vomiting; immediately call for medical help.

(Cont'd. on page 3)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 2)

- **Most important symptoms and effects, both acute and delayed:**
 - Blast injury if mishandled.
 - Thermal burns, if mishandled.
- **Danger:** Danger of blast or crush-type injuries.
- **Indication of any immediate medical attention and special treatment needed:**
 - Product may produce physical injury if mishandled. Treatment of these injuries should be based on the clinical presentation.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
 - DO NOT fight fire when fire reaches explosives.
 - Flood area with water. If no water is available, carbon dioxide, dry chemical or earth may be used. If the fire reaches the cargo, withdraw and let fire burn.
- **For safety reasons unsuitable extinguishing agents:** None.
- **Special hazards arising from the substance or mixture**
 - Explosive; fire, blast or projection hazard.
 - During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:**
 - Wear self-contained respiratory protective device.
 - Wear fully protective suit.
- **Additional information:**
 - Eliminate all ignition sources if safe to do so.
 - In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
 - Cool endangered receptacles with water spray.
 - Flammability Classification: (defined by 29 CFR 1910.1200) Explosive. Can explode under fire conditions. Individual devices will randomly explode. Mass explosion of multiple devices is possible under certain conditions. Burning material may produce toxic and irritating vapors. In unusual cases, shrapnel may be thrown from exploding devices under containment. See 2012 Emergency response Guidebook for further information.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
 - Wear protective equipment. Keep unprotected persons away.
 - Remove persons from danger area.
 - Ensure adequate ventilation.
 - Isolate area and prevent access.
- **Environmental precautions**
 - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Methods and material for containment and cleaning up**
 - Pick up mechanically.

(Cont'd. on page 4)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 3)

Send for recovery or disposal in suitable receptacles.

• **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

• **Handling**

• **Precautions for safe handling:**

Handle with care. Avoid jolting, friction and impact.

Restrict the quantity stored at the work place.

Keep out of reach of children.

• **Information about protection against explosions and fires:**

In case of fire: Evacuate area.

Explosion risk in case of fire.

Keep away from sparks and open flames. - No smoking.

Emergency cooling must be available in case of nearby fire.

• **Conditions for safe storage, including any incompatibilities**

• **Storage**

• **Requirements to be met by storerooms and receptacles:**

Avoid storage near extreme heat, ignition sources or open flame.

• **Information about storage in one common storage facility:**

Store in accordance with local/regional/national/international regulations.

Store away from foodstuffs.

Store away from flammable substances.

• **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Store locked up.

• **Specific end use(s)** No relevant information available.

8 Exposure controls/personal protection

• **Control parameters**

• **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• **Exposure controls**

• **Personal protective equipment:**

• **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

• **Engineering controls:** Provide adequate ventilation.

(Cont'd. on page 5)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 4)

- **Breathing equipment:** Not required under normal conditions of use.
- **Protection of hands:** When needed, wear gloves for protection against mechanical hazards.
- **Eye protection:**



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- **Body protection:** When needed, wear protective clothing for protection against mechanical hazards.

- **Limitation and supervision of exposure into the environment**

No relevant information available.

- **Risk management measures**

Organizational measures should be in place for all activities involving this product.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **Appearance:**

Form: Outer shell containing powder, granular, or solid materials.
 Color: According to product specification

- **Odor:** Odorless

- **Odor threshold:** Not determined.

- **pH-value:** Not applicable.

- **Melting point/Melting range:** Not determined.

- **Boiling point/Boiling range:** Not determined.

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Fire or projection hazard.

- **Auto-ignition temperature:** Not determined.

- **Decomposition temperature:** Not determined.

- **Danger of explosion:** Heating may cause an explosion.

- **Explosion limits**

Lower: Not determined.

Upper: Not determined.

- **Vapor pressure:** Not applicable.

- **Density:** Not determined.

- **Relative density:** Not determined.

- **Vapor density:** Not applicable.

- **Evaporation rate:** Not applicable.

(Cont'd. on page 6)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 5)

- | | |
|---|------------------------------------|
| · Solubility in / Miscibility with Water: | Insoluble. |
| · Partition coefficient (n-octanol/water): | Not determined. |
| · Viscosity | |
| Dynamic: | Not applicable. |
| Kinematic: | Not applicable. |
| · Other information | No relevant information available. |

10. Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:** Risk of explosion if heated under confinement.
- **Possibility of hazardous reactions**
Explosive; fire, blast or projection hazard.
Toxic fumes may be released if heated above the decomposition point.
Reacts with strong acids and alkali.
- **Conditions to avoid**
Excessive heat.
Sources of ignition: sparks, open flame, incompatible materials
- **Incompatible materials** Oxidizers, strong bases, strong acids
- **Hazardous decomposition products**
Carbon monoxide and carbon dioxide
Nitrogen oxides
Sulfur oxides (SO_x)

11. Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** None.
- **Primary irritant effect:**
- **On the skin:**
Not a skin irritant in unused form. Vapors/particles from used product are possibly irritating to skin.
- **On the eye:**
Not an eye irritant in unused form. Vapors/particles from used product are possibly irritating to eyes.
- **Sensitization:** Based on available data, the classification criteria are not met.
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer):**
- None of the ingredients are listed.

(Cont'd. on page 7)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 6)

· NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable route(s) of exposure:

Skin contact.

Eye contact.

Inhalation.

· Acute effects (acute toxicity, irritation and corrosivity):

Danger of blast or crush-type injuries.

Risk of thermal burns.

· Repeated dose toxicity: From product as supplied: None.**· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)****· Germ cell mutagenicity:** Based on available data, the classification criteria are not met.**· Carcinogenicity:** Based on available data, the classification criteria are not met.**· Reproductive toxicity:** Based on available data, the classification criteria are not met.**· STOT-single exposure:** Based on available data, the classification criteria are not met.**· STOT-repeated exposure:** Based on available data, the classification criteria are not met.**· Aspiration hazard:** Based on available data, the classification criteria are not met.**12 Ecological Information****· Toxicity****· Aquatic toxicity** No relevant information available.**· Persistence and degradability** No relevant information available.**· Bioaccumulative potential:** May be accumulated in organism**· Mobility in soil:** No relevant information available.**· Other adverse effects** No relevant information available.**13 Disposal considerations****· Waste treatment methods****· Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Incinerate in accordance with local, state and federal regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

(Cont'd. on page 8)

Safety Data Sheet acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 7)

- Uncleaned packagings
- Recommendation: Disposal must be made according to official regulations.

14 Transport information

· UN-Number
· DOT, ADR, IMDG
· IATA

UN0335
FORBIDDEN

· UN proper shipping name
· DOT, ADR, IMDG
· IATA

Fireworks
FORBIDDEN

· Transport hazard class(es)

· DOT



· Class
· Label

1.3
1.3G

· ADR



· Class
· Label

1.3
1.3G

· IMDG



· Class
· Label

1.1
1.3G

· IATA

· Class

FORBIDDEN

· Packing group

· DOT

II

· Environmental hazards

· Marine pollutant:

No

· Special precautions for user

Not applicable.

(Cont'd. on page 9)

Safety Data Sheet acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 8)

· EMS Number: F-S,B-X

· Transport in bulk according to Annex II of
MARPOL73/78 and the IBC Code Not applicable.

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· United States (USA)

· SARA

· Section 302 (extremely hazardous substances):

None of the ingredients are listed.

· Section 304 (emergency release notification):

None of the ingredients are listed.

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

Contact manufacturer.

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

· Proposition 65 (California)

· Chemicals known to cause cancer:

Contact manufacturer.

· Chemicals known to cause reproductive toxicity for females:

Contact manufacturer.

· Chemicals known to cause reproductive toxicity for males:

Contact manufacturer.

· Chemicals known to cause developmental toxicity:

Contact manufacturer.

· Carcinogenic categories

· EPA (Environmental Protection Agency):

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

Contact manufacturer.

(Cont'd. on page 10)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 9)

· NIOSH-Ca (National Institute for Occupational Safety and Health):

Contact manufacturer.

16 Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Date of preparation / last revision 01/06/2017 / -

· **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 NIOSH: National Institute for Occupational Safety
 OSHA: Occupational Safety & Health
 TLV: Threshold Limit Value
 PEL: Permissible Exposure Limit
 REL: Recommended Exposure Limit
 LDLo: Lowest Lethal Dose Observed
 Expl. 1.3: Explosives – Division 1.3

· **Sources**

Website, European Chemicals Agency (echa.europa.eu)
 Website, US EPA Substance Registry Services (ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do)
 Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
 Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6
 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.
 Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

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Website: www.chemtelinc.com

- EMERGENCY RESPONSE
- UN0336, FIREWORKS, 1.4G, PGII,
- UN0431, ARTICLES PYROTECHNICS, 1.4G, PGII,
- UN0432, ARTICLES PYROTECHNICS, 1.4S, PGII,
- UN0325 IGNITERS, 1.4G, PGII, UN0454, IGNITERS, 1.4S, PGII

- POTENTIAL HAZARDS

- **Fire or explosion**
- May explode and throw fragments 500 meters (1/3 mile) or more if fire reaches cargo.

- **Health**
- Fire may produce irritating, corrosive and/or toxic gases

- PUBLIC SAFETY

- Call Emergency Response Telephone Number on Shipping Paper. Chem-Tel (800) 255-3924
- Isolate spill or leak area immediately for at east 100 meters (330 feet) in all directions.
- Ventilate closed spaces before entering.

- PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA)
- Structural firefighters' protective clothing will only provide limited protection.

- EVACUATION

- **Large Spill**
- Consider initial evacuation for 250 meters (800 feet) in all directions.

- **Fire**
- If rail car or trailer is involved in a fire, **ISOLATE** for 500 meters (1/3 mile) in all directions; also initiate evacuation including emergency responders for 500 meters (1/3 mile) in all directions.

- EMERGENCY RESPONSE

- **Fire**
- **Cargo Fires**
- **Do not fight fire when fire reaches cargo! Cargo may explode**
- Stop all traffic and clear the area for at least 500 meters (1/3 mile) in all directions and let burn.
- Do not move cargo or vehicle if cargo has been exposed to heat.

- **TIRE or VEHICLE Fires**

- Use plenty of water-FLOOD it! If water is not available, use CO2, dry chemical or dirt.
- If possible, and WITHOUT RISK, use unmanned hose holders or monitor nozzles from maximum distance to prevent fire from spreading to cargo area.
- Pay special attention to tire fires as re-ignition may occur. Stand by with extinguisher ready.

- **Spill or Leak**

- Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- **DO NOT OPERATE RADIO TRANSMITTERS WITHIN 100 METERS (330 FEET) OF ELECTRIC DOTONATORS.**
- **DO NOT CLEAN-UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.**

- **First Aid**

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Revision Date: 02/11/2016 - Revision: 1

Product J-Tek
 Revision Date 02/11/2016
 Revision 1



Safety Data Sheet

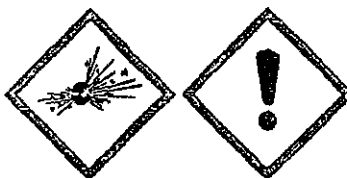
SECTION 1: IDENTIFICATION

Product Name	J-Tek
Identifier Uses	No specific uses identified.
Supplier	MJG Technologies Inc PyroSmart Mexico, S.A. de C.V. Parcela 34 Z 1 1/2, Nuevo Mundo Ejido de Ojacaliente, Zacatecas, Mexico 98705, Mexico Tel: 856-228-6118
Contact Person	info@electricmatch.com
Emergency Telephone	1-352-323-3500 Contract # 100588

SECTION 2: HAZARDS IDENTIFICATION

Appearance	Solid. Medium brown colored bead of pyrotechnic composition on a copper-clad chip with two PVC insulated connecting wires of various lengths. Red or blue lacquer coating on igniter head.
Color	Medium brown colored.
Odor	No odour information available.

Pictogram(s)



Signal Word	Danger
Hazard Statements	H204 Fire or projection hazard. H271 May cause fire or explosion; strong oxidiser. H302 Harmful if swallowed.

Precautionary Statements	P210 Keep away from heat/ sparks/open flames/hot surfaces. — No smoking. P221 Take any precaution to avoid mixing with combustibles/[*] P280 Wear protective gloves/ protective clothing/eye protection/face protection. P374 Fight fire with normal precautions from a reasonable distance. P370 + P380 In case of fire: Evacuate area.
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Contains	potassium perchlorate
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GHS Classification	
Physical and Chemical Hazards	Ox Sol 1 - H271, Expl. 1.4 - H204
Human Health	Acute Tox 4 - H302,
Environment	Not classified

OSHA Regulatory Status	This product is Hazardous under the OSHA Hazard communication Standard.
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Inhalation	Inhalation of large amounts of igniter heads may cause respiratory discomfort.
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Revision Date: 02/11/2016 - Revision: 1

Ingestion	Harmful if swallowed.
Skin contact	Thermal burns to the skin caused by accidental ignition of igniters. Not absorbed through the skin.
Eye contact	Thermal burns to the eyes caused by accidental ignition of igniters .
Routes of Exposure	No Information available.
Other Hazards	Not applicable.

SECTION 3: Composition/Information on Ingredients

Name	Product Identifier	GHS Classification	%
potassium perchlorate	CAS-No.: 7778-74-7 EC No.: 231-912-9	Ox Sol 1 - H271, Acute Tox 4 - H302	30-60%
Composition Comments		This product contains proprietary information.	

SECTION 4: FIRST AID MEASURES**Description of first aid measures**

General Information	CAUTION! First aid personnel must be aware of own risk during rescue! Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Burns must be treated by doctors. Place unconscious person on the side in the recovery position and ensure breathing can take place. If heart stops, heart-compression must be carried out. In case of accidents: Call an ambulance immediately! Show the MSDS.
Inhalation	If this product is inhaled and symptoms occur, move the exposed person to fresh air promptly. Seek medical attention if symptoms persist.
Ingestion	Get medical attention immediately. Do NOT induce vomiting. If victim is conscious and alert, wash out mouth with water then give water. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep airway clear.
Skin contact	Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin.
Eye contact	Transfer to hospital if there are burns or symptoms of poisoning. Consult a doctor. Do not rub eye. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse. Continue to rinse for at least 15 minutes.

Most important symptoms and effects, both acute and delayed

General Information	The severity of the symptoms described will vary dependant of the concentration and the length of exposure.
Inhalation	Inhalation of large amounts of igniter heads may cause respiratory discomfort.
Ingestion	Harmful if swallowed.
Skin contact	Thermal burns to the skin caused by accidental ignition of igniters. Not absorbed through the skin.
Eye contact	Thermal burns to the eyes caused by accidental ignition of igniters .
Routes of Exposure	No Information available.

Most important symptoms and effects, both acute and delayed

Notes To The Physician	Treat Symptomatically.
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SECTION 5: Firefighting Measures

Auto Ignition Temperature (°C)	No Information available.
Flammability Limit - Lower(%)	No Information available.
Flammability Limit - Upper(%)	No Information available.
Flash point	No Information available.
Extinguishing Media	Use fire-extinguishing media appropriate for surrounding materials.
Hazardous combustion products	Smoke contains Boron and Titanium.
Unusual Fire & Explosion Hazards	Burning igniters will project sparks several feet and can cause secondary fires. Igniters may rupture a container if ignited under confinement. Igniters may be ignited by extreme impact, friction or electrostatic discharge.
Special Fire Fighting Procedures	If possible, fight fire from protected position. Avoid breathing fire vapours. Keep up-wind to avoid fumes. Ventilate closed spaces before entering them. Containers close to fire should be removed immediately or cooled with water. Use water spray to cool container and prevent

Revision Date: 02/11/2016 - Revision: 1

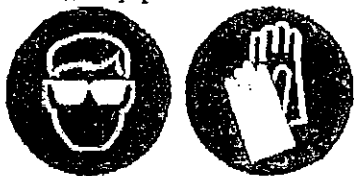
Protective equipment for fire-fighters	rupture. Fire fighters should wear full protective equipment, including a self-contained breathing apparatus. Water should be used to cool surrounding containers.
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SECTION 6: Accidental Release Measures

Personal Precautions	Use proper personal protection (refer to Section 8).
Environmental Precautions	Run off from fire control or dilution water may cause pollution. Keep out of drains, municipal sewers, open bodies of water and water course.
Spill Clean Up Methods	Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

SECTION 7: Handling and Storage

Handling	Read and follow manufacturer's recommendations. Do not handle broken packages without protective equipment. Avoid spilling, skin and eye contact. Do not use contact lenses. Keep away from heat, sparks and open flame. Take precautionary measures against static discharges when there is a risk of dust explosion.
Usage Description	Use only according to directions.
Storage Precautions	Store igniters in accordance with local, state and federal regulations. Keep dry and avoid temperatures above 120 degree F. Store in closed container away from incompatible materials, sunlight and heat to prolong shelf life. Minimize exposure in accordance with good hygiene practices. Keep out of reach of children. Keep away from food and drink. Containers opened must be resealed and kept upright. Do not store in unlabelled containers.
Specific End Use(s)	Igniter.

SECTION 8: Exposure Controls/Personal Protection**Protective Equipment**

Ingredient Comments	No occupational exposure limits noted for the ingredients(s).
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Process Conditions
Engineering Measures
Respiratory Equipment
Hand Protection

Ensure that eye flushing systems and safety showers are located close to the working place. Provide adequate ventilation.
 If ventilation is inadequate use a suitable respirator.
 The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Due to risk of fire, leather footwear and cotton clothing should never be used. Long sleeved shirt, trousers, rubber boots, rubber gloves, and rubber apron.

Eye Protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hygiene Measures

Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Take off immediately all contaminated clothing. Avoid contact with skin, eyes and clothing.

SECTION 9: Physical and Chemical Properties**Information on Basic Physical and Chemical Properties**

Appearance	Solid. Medium brown colored head of pyrotechnic composition on a copper-clad chip with two PVC insulated connecting wires of various lengths. Red or blue lacquer coating on igniter head.
Color	Medium brown colored.

Odor	No odour information available.
Odor Threshold - Lower	No information available.
Odor Threshold - Upper	
pH-Value, Conc. Solution	No Information available.
pH-Value, Diluted Solution	No Information available.
Melting point	No Information available.
Initial boiling point and boiling range	No Information available.
Flash point	No Information available.
Evaporation rate	No Information available.
Flammability State	No Information available.
Flammability Limit - Lower(%)	No Information available.
Flammability Limit - Upper(%)	No information available.
Vapor pressure	No Information available.
Vapor Density (air=1)	No Information available.
Relative density	No Information available.
Bulk Density	No Information available.
Solubility	No information available.
Decomposition temperature	No Information available.
Partition coefficient; n-octanol/water	No Information available.
Auto Ignition Temperature (°C)	No information available.
Viscosity	No Information available.
Explosive Properties	Bead of pyrotechnic composition on a copper-clad chip with two PVC insulated connecting wires of various lengths.
Oxidizing Properties	No Information available.
Molecular Weight	No Information available.
Volatile Organic Compound	No Information available.

SECTION 10: Stability and Reactivity

Reactivity	Reaction with heat, acids and reducing agents.
Stability	Stable under normal temperature conditions and recommended use.
Hazardous Polymerisation	Will not polymerise.
Hazardous Decomposition Products	Smoke contains oxides of Boron and Titanium.
Conditions to Avoid	Avoid contact with strong oxidisers. Avoid heat, flames and other sources of ignition.
Materials to Avoid	Keep away from strong acids. Keep away from strong reducing agents and strong oxidising agents.

Revision Date: 02/11/2016 - Revision: 1

SECTION 11: Toxicological Information

Toxicological Information	No toxicological information for the overall finished product.
Acute Toxicity (Oral LD50)	No Information available.
Acute Toxicity (Dermal LD50)	No Information available.
Acute Toxicity (Inhalation LC50)	No Information available.
Skin Corrosion/Irritation	No Information available.
Respiratory Sensitisation	No Information available.
Skin Sensitisation	No Information available.
Reproductive Toxicity:	No Information available.
Germ Cell Mutagenicity:	
Genotoxicity - In Vitro	
Genotoxicity - In Vivo	
Carcinogenicity:	
Carcinogenicity	No Information available.
NTP - Carcinogenicity	The product and its components are not listed.
OSHA - Carcinogenicity	The product and its components are not listed.
IARC Carcinogenicity	The product and its components are not listed.
Specific Target Organ Toxicity - Single Exposure:	
STOT - Single Exposure	No Information available.
Specific Target Organ Toxicity - Repeated Exposure:	
STOT - Repeated Exposure	No Information available.

SECTION 12: Ecological Information

Ecotoxicity	The product does pose an environmental hazard.
Acute Toxicity - Fish	No Information available.
Acute Toxicity - Aquatic Invertebrates	No Information available.
Acute Toxicity - Aquatic Plants	No Information available.
Degradability	There are no data on the degradability of this product.
Bioaccumulative Potential	No data available on bioaccumulation.
Mobility	No information available.
Results of PBT and vPvB Assessment	No information available.
Other Adverse Effects	No information available.

SECTION 13: Disposal Considerations

Waste Management	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
Disposal Methods	Waste disposal must be in accordance with appropriate federal, state, and local regulations.

SECTION 14: Transport Information**UN Number**

UN No. (DOT/TDG)	UN454
UN No. (IMDG)	UN454
UN No. (IATA)	UN0454

Proper Shipping Name

DOT/TDG Proper Shipping Name	IGNITERS
IMDG Proper Shipping Name	IGNITERS

IATA Proper Shipping Name	Igniters
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Transport Hazard Class(es)

DOT/TDG Class	1.4
IMDG Class	1.4 S
IATA Class	1.4S

Transport Labels	
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**Packing Group(s)**

DOT Packing Group	<none>
IMDG Packing Group	-
IATA Packing Group	<none>

Special Precautions for User

EMS	F-B, S-X
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Environmentally Hazardous Substance/Marine Pollutant

ADR	No
IMDG	No
IATA	No

SECTION 15: Regulatory Information**US Federal Regulations****SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

The Following ingredients are listed	None Listed.
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CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

The Following ingredients are listed	None Listed.
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SARA Extremely Hazardous Substances EPCRA Reportable Quantities

The Following ingredients are listed	None Listed.
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SARA 313 Emission Reporting

The Following ingredients are listed	None Listed.
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CAA Accidental Release Prevention

The Following ingredients are listed	None Listed.
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OSHA Highly Hazardous Chemicals

The Following ingredients are listed	None Listed.
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US State Regulations**California Proposition 65 Carcinogens and Reproductive Toxins**

The Following ingredients are listed	None Listed.
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California Air Toxics "Hot Spots" (A-I)

The Following ingredients are listed	None Listed.
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California Air Toxics "Hot Spots" (A-Ii)

The Following ingredients are listed	None Listed.
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Massachusetts "Right To Know" List

The Following ingredients are listed	potassium perchlorate
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Rhode Island "Right To Know" List

Revision Date: 02/11/2016 - Revision: 1

The Following ingredients are listed None Listed.

Minnesota "Right To Know" List

The Following ingredients are listed None Listed.

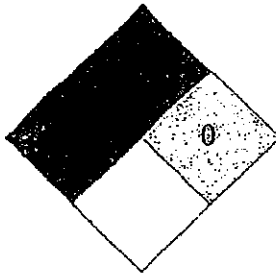
New Jersey "Right To Know" List

The Following ingredients are listed boron
potassium perchlorate
titanium

Pennsylvania "Right To Know" List

The Following ingredients are listed potassium perchlorate

SECTION 16: Other Information

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)**HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)**

Health	0
Flammability	0
Physical Hazard	0
Personal Protection	

Revision Comments	This is first issue
Revision Date	02/11/2016
Revision	1

Disclaimer

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SAFETY REGULATIONS PART 397

General

§397.2 Compliance with Federal motor carrier safety regulations.

A motor carrier or other person to whom this part is applicable must comply with the rules in Part 390 through 397, inclusive, of this subchapter when he/she is transporting hazardous materials by a motor vehicle which must be marked or placarded in accordance with §177.823 of this title.

[37 FR 18080, Sept. 7, 1972]

§397.3 State and local laws, ordinances and regulations.

Every motor vehicle containing hazardous materials must be driven and parked in compliance with the laws, ordinances, and regulations of the jurisdiction in which it is being operated, unless they are at variance with specific regulations of the Department of Transportation which are applicable to the operation of that vehicle and which impose a more stringent obligation or restraint.

§397.5 Attendance and surveillance of motor vehicles.

- (a) Except as provided in paragraph (b) of this section, a motor vehicle which contains a Division 1.1, 1.2, or 1.3 (explosive) material must be attended at all times by its driver or a qualified representative of the motor carrier that operates it.
- (b) The rules in paragraph (a) of this section do not apply to a motor vehicle which contains Division 1.1, 1.2, or 1.3 material if all the following conditions exist—
- (b)(1) The vehicle is located on the property of a motor carrier, on the property of a shipper or consignee of the explosives, in a safe haven, or, in the case of a vehicle containing 50 pounds or less of a Division 1.1, 1.2, or 1.3 material, on a construction or survey site; and
- (b)(2) The lawful bailee of the explosives is aware of the nature of the explosives the vehicle contains and has been instructed in the procedures which must be followed in emergencies; and
- (b)(3) The vehicle is within the bailee's unobstructed field of view or is located in a safe haven.
- (c) A motor vehicle which contains hazardous materials other than Division 1.1, 1.2, or 1.3, materials, and which is located on a public street or highway, or the shoulder of a public highway, must be attended by its driver. However, the vehicle need not be attended while its driver is performing duties which are incident and necessary to the driver's duties as the operator of the vehicle.
- (d) For purposes of this section—
- (d)(1) A motor vehicle is attended when the person in charge of the vehicle is on the vehicle, awake, and not in a sleeper berth, or is within 100 feet of the vehicle and has it within his/her unobstructed field of view.
- (d)(2) A qualified representative of a motor carrier is a person who—
- (d)(2)(i) Has been designated by the carrier to attend the vehicle;
- (d)(2)(ii) Is aware of the nature of the hazardous materials contained in the vehicle he/she attends;
- (d)(2)(iii) Has been instructed in the procedures he/she must follow in emergencies; and
- (d)(2)(iv) Is authorized to move the vehicle and has the means and ability to do so.
- (d)(3) A safe haven in an area specifically approved in writing by local, State, or Federal governmental authorities for the parking of unattended vehicles containing Division 1.1, 1.2, or 1.3 materials.
- (e) The rules in this section do not relieve the driver from any obligation imposed by law relating to the placing of warning devices when a motor vehicle is stopped on a public street or highway.

[59 FR 63925, Dec. 12, 1994]

§397.7 Parking.

- (a) A motor vehicle which contains Division 1.1, 1.2, or 1.3 materials must not be parked under any of the following circumstances—
- (a)(1) On or within 5 feet of the traveled portion of a public street or highway;
- (a)(2) On private property (including premises of a fueling or eating facility) without the knowledge and consent of the person who is in charge of the property and who is aware of the nature of the hazardous materials the vehicle contains; or
- (a)(3) Within 300 feet of a bridge, tunnel, dwelling, or place where people work, congregate, or assemble, except for brief periods when the necessities of operation require the vehicle to be parked and make it impracticable to park the vehicle in any other place.
- (b) A motor vehicle which contains hazardous materials other than Division 1.1, 1.2, or 1.3 materials must not be parked on or within five feet of the traveled portion of public street or highway except for brief periods when the necessities of operation require the vehicle to be parked and make it impracticable to park the vehicle in any other place.

397.11 Fires.

- (a) A motor vehicle containing hazardous materials must not be operated near an open fire unless its driver has first taken precautions to ascertain that the vehicle can safely pass the fire without stopping.
- (b) A motor vehicle containing hazardous materials must not be parked within 300 feet of an open fire.

§397.13 Smoking.

No person may smoke or carry a lighted cigarette, cigar, or pipe on or within 25 feet of—

- (a) A motor vehicle which contains Class 1 materials, Class 5 materials, or flammable materials classified as Division 2.1, Class 3, Divisions 4.1 and 4.2; or
- (b) An empty tank motor vehicle which has been used to transport Class 3, flammable materials or Division 2.1 flammable gases, which, when so used, was required to be marked or placarded in accordance with the rules in §177.823 of this title.

[59 FR 63925, Dec. 12, 1994]

§397.15 Fueling.

When a motor vehicle which contains hazardous materials is being fueled—

- (a) Its engine must not be operating; and
- (b) A person must be in control of the fueling process at the point where the fuel tank is filled.

§397.17 Tires.

- (a) A driver must examine each tire on a motor vehicle at the beginning of each trip and each time the vehicle is parked.
- (b) If, as the result of an examination pursuant to paragraph (a) of this section, or otherwise, a tire is found to be flat, leaking, or improperly inflated, the driver must cause the tire to be repaired, replaced, or properly inflated before the vehicle is driven. However, the vehicle may be driven to the nearest safe place to perform the required repair, replacement, or inflation.
- (c) If, as the result of an examination pursuant to paragraph (a) of this section, or otherwise, a tire is found to be overheated, the driver shall immediately cause the overheated tire to be removed and placed at a safe distance from the vehicle. The driver shall not operate the vehicle until the cause of the overheating is corrected.
- (d) Compliance with the rules in this section does not relieve a driver from the duty to comply with the rules in §§397.5 and 397.7.

[67 FR 62192, Oct. 4, 2002]

§397.19 Instructions and documents.

- (a) A motor carrier that transports Division 1.1, 1.2, or 1.3 (explosive) materials must furnish the driver of each motor vehicle in which the explosives are transported with the following documents:
 - (a)(1) A copy of the rules in this part;
 - (a)(2) [Reserved]
 - (a)(3) A document containing instructions on procedures to be followed in the event of accident or delay. The documents must include the names and telephone numbers of persons (including representatives of carriers or shippers) to be contracted, the nature of the explosives being transported, and the precautions to be taken in emergencies such as fires, accidents, or leakages.
- (b) A driver who receives documents in accordance with paragraph (a) of this section must sign a receipt for them. The motor carrier shall maintain the receipt for a period of one year from the date of signature.
- (c) A driver of a motor vehicle which contains Division 1.1, 1.2, or 1.3 materials must be in possession of, be familiar with, and be in compliance with
 - (c)(1) The documents specified in paragraph (a) of this section;
 - (c)(2) The documents specified in §177.817 of this title; and
 - (c)(3) The written route plan specified in §397.67.

[59 FR 63925, Dec. 12, 1994; 63 FR 33280, June 18, 1998]

Emergency Response
Explosives- Division 1.1, 1.2, 1.3, 1.5, or: Class A & B
UN0335, Fireworks, 1.3G, PG II
UN0333, Fireworks, 1.1G, PGII

CARGO Fires

- DO NOT fight fire when fire reaches cargo! Cargo may EXPLODE!
- Stop all traffic and clear the area for at least 1600 meters (1 mile) in all directions and let burn
- Do not move cargo or vehicle if cargo has been exposed to heat.

Tire or Vehicle Fires

- Use plenty of water -FLOOD it! If water is not available, use CO2, dry chemical or dirt.
- If possible, and WITHOUT RISK, use unmanned hose holders or monitor nozzles from maximum distance to prevent fire from spreading to cargo area.
- Pay special attention to tire fires as re-ignition may occur. Stand by with extinguisher ready

SPILL or LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded
- Do not touch or walk through spilled material.
- DO NOT OPERATE RADIO TRANSMITTERS WITHIN 100 meters (330 feet) OF ELECTRIC DETONATORS.
- DO NOT CLEAN UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.

FIRST AID

- Move victim to fresh air, Call emergency medical care.
- Apply artificial respiration if victim is not breathing
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least for 20 minutes.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves

FIRE OR EXPLOSION

- MAY EXPLODE AND THROW FRAGMENTS 1600 meters (1 MILE) OR MORE IF FIRE REACHES CARGO.
- For information on "Compatibility Group" letters, refer to Glossary section in Emergency Response Guidebook.

HEALTH

- Fire may produce irritating, corrosive and / or toxic gases.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first.
- CALL CHEM-TEL'S 24- HOUR NUMBER (800) 255-3924
- Isolate spill or leak area immediately for at least 500 meters (1/3 mile) in all directions
- Move people out of line of sight of the scene and away from windows.
- Keep unauthorized personnel away.
- Stay upwind.
- Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters protective clothing will only provide limited protection.

EVACUATION

LARGE SPILL

- Consider initial evacuation for 800 meters (1/2 mile) in all directions.

Fire

- If rail car or trailer is involved in a fire and heavily encased explosives such as bombs or artillery projectiles are suspected, ISOLATE for 1600M (1 mile in all directions; also initiate evacuation including emergency responders for 1600M (1 mile) in all directions.
- When heavily encased explosives are not involved, evacuate the area for 800 meters (1/2 mile) in all directions

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

1 Identification

Product identifier

Fireworks, Division 1.3 Explosive

Trade name:

Fireworks, Display

Product code:

Fireworks, 1.3G UN0335

Recommended use and restriction on use
Recommended use: Explosive product for professional use for entertainment and technical purposes

Restrictions on use: Contact manufacturer/supplier

Details of the supplier of the Safety Data Sheet
Manufacturer/Supplier:

East Coast Pyrotechnics
4652 Catawba River Road
Catawba, SC 29704
803-789-5733

Emergency telephone number:

ChemTel Inc.
(800)255-3924, +1 (813)248-0585

2 Hazard(s) Identification

Classification of the substance or mixture

Expl. 1.3 H203 Explosive; fire, blast or projection hazard.

Label elements
GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:


GHS01

Signal word: Danger
Hazard statements:

H203 Explosive; fire, blast or projection hazard.

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P250 Do not subject to grinding/shock/friction.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P373 DO NOT fight fire when fire reaches explosives.
P370+P380 In case of fire: Evacuate area.
P372 Explosion risk in case of fire.

(Cont'd. on page 2)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 1)

P401 Store in accordance with local/regional/national/international regulations.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• **Other hazards** There are no other hazards not otherwise classified that have been identified.

• **Explosive Product Notice**

PREVENTION OF ACCIDENTS IN THE USE OF EXPLOSIVES - The prevention of accidents in the use of explosives is a result of careful planning and observance of the best known practices. The explosives user must remember that he is dealing with a powerful force and that various devices and methods have been developed to assist him in directing this force. He should realize that this force, if misdirected, may either kill or injure both him and his fellow workers.

WARNING - All explosives are dangerous and must be carefully handled and used following approved safety procedures either by or under the direction of competent, experienced persons in accordance with all applicable federal, state, and local laws, regulations, or ordinances. If you have any questions or doubts as to how to use any explosive product, DO NOT USE IT before consulting with your supervisor, or the manufacturer, if you do not have a supervisor. If your supervisor has any questions or doubts, he should consult the manufacturer before use.

3 Composition/information on ingredients

• **Chemical characterization:** Mixtures

• **Components:**

Components for product possessing only physical hazards do not require reporting. These components are considered proprietary.

4 First-aid measures

• **Description of first aid measures**

• **General Information:**

Information is only applicable to product contents, and not to product as normally supplied. This information is applicable to damaged, leaking, or spilled product as contact with contents is possible under these conditions.

• **After inhalation:** Supply fresh air; consult doctor in case of complaints.

• **After skin contact:**

Wash with soap and water.

In case of minor burns, flush with cool water.

If skin irritation is experienced, consult a doctor.

• **After eye contact:**

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• **After swallowing:**

Unlikely route of exposure.

Do not induce vomiting; immediately call for medical help.

(Cont'd. on page 3)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 2)

- **Most important symptoms and effects, both acute and delayed:**
Blast injury if mishandled.
Thermal burns, if mishandled.
- **Danger:** Danger of blast or crush-type injuries.
- **Indication of any immediate medical attention and special treatment needed:**
Product may produce physical injury if mishandled. Treatment of these injuries should be based on the clinical presentation.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
DO NOT fight fire when fire reaches explosives.
Flood area with water. If no water is available, carbon dioxide, dry chemical or earth may be used. If the fire reaches the cargo, withdraw and let fire burn.
- **For safety reasons unsuitable extinguishing agents:** None.
- **Special hazards arising from the substance or mixture**
Explosive; fire, blast or projection hazard.
During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information:**
Eliminate all ignition sources if safe to do so.
In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
Cool endangered receptacles with water spray.
Flammability Classification: (defined by 29 CFR 1910.1200) Explosive. Can explode under fire conditions. Individual devices will randomly explode. Mass explosion of multiple devices is possible under certain conditions. Burning material may produce toxic and irritating vapors. In unusual cases, shrapnel may be thrown from exploding devices under containment. See 2012 Emergency response Guidebook for further information.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Remove persons from danger area.
Ensure adequate ventilation.
Isolate area and prevent access.
- **Environmental precautions**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Methods and material for containment and cleaning up**
Pick up mechanically.

(Cont'd. on page 4)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 3)

Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling**Precautions for safe handling:**

Handle with care. Avoid jolting, friction and impact.

Restrict the quantity stored at the work place.

Keep out of reach of children.

Information about protection against explosions and fires:

In case of fire: Evacuate area.

Explosion risk in case of fire.

Keep away from sparks and open flames. - No smoking.

Emergency cooling must be available in case of nearby fire.

Conditions for safe storage, including any incompatibilities**Storage****Requirements to be met by storerooms and receptacles:**

Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility:

Store in accordance with local/regional/national/international regulations.

Store away from foodstuffs.

Store away from flammable substances.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Store locked up.

Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

Control parameters**Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Exposure controls**Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Engineering controls: Provide adequate ventilation.

(Cont'd. on page 5)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 4)

- **Breathing equipment:** Not required under normal conditions of use.
- **Protection of hands:** When needed, wear gloves for protection against mechanical hazards.
- **Eye protection:**



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- **Body protection:** When needed, wear protective clothing for protection against mechanical hazards.
- **Limitation and supervision of exposure into the environment**
No relevant information available.
- **Risk management measures**
Organizational measures should be in place for all activities involving this product.

9 Physical and chemical properties

Information on basic physical and chemical properties

· Appearance:	
Form:	Outer shell containing powder, granular, or solid materials.
Color:	According to product specification
· Odor:	Odorless
· Odor threshold:	Not determined.
· pH-value:	Not applicable.
· Melting point/Melting range:	Not determined.
· Boiling point/Boiling range:	Not determined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Fire or projection hazard.
· Auto-ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· Danger of explosion:	Heating may cause an explosion.
· Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not applicable.
· Density:	Not determined.
· Relative density:	Not determined.
· Vapor density:	Not applicable.
· Evaporation rate:	Not applicable.

(Cont'd. on page 6)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 5)

- | | |
|---|------------------------------------|
| · Solubility in / Miscibility with Water: | Insoluble. |
| · Partition coefficient (n-octanol/water): | Not determined. |
| · Viscosity | |
| Dynamic: | Not applicable. |
| Kinematic: | Not applicable. |
| · Other information | No relevant information available. |

10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:** Risk of explosion if heated under confinement.
- **Possibility of hazardous reactions**
Explosive; fire, blast or projection hazard.
Toxic fumes may be released if heated above the decomposition point.
Reacts with strong acids and alkali.
- **Conditions to avoid**
Excessive heat.
Sources of ignition: sparks, open flame, incompatible materials
- **Incompatible materials** Oxidizers, strong bases, strong acids
- **Hazardous decomposition products**
Carbon monoxide and carbon dioxide
Nitrogen oxides
Sulfur oxides (SOx)

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** None.
- **Primary irritant effect:**
- **On the skin:**
Not a skin irritant in unused form. Vapors/particles from used product are possibly irritating to skin.
- **On the eye:**
Not an eye irritant in unused form. Vapors/particles from used product are possibly irritating to eyes.
- **Sensitization:** Based on available data, the classification criteria are not met.
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer):**
- None of the ingredients are listed.

(Cont'd. on page 7)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 6)

· **NTP (National Toxicology Program):**

None of the ingredients are listed.

· **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

· **Probable route(s) of exposure:**

Skin contact.

Eye contact.

Inhalation.

· **Acute effects (acute toxicity, irritation and corrosivity):**

Danger of blast or crush-type injuries.

Risk of thermal burns.

· **Repeated dose toxicity:** From product as supplied: None.· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**· **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.· **Carcinogenicity:** Based on available data, the classification criteria are not met.· **Reproductive toxicity:** Based on available data, the classification criteria are not met.· **STOT-single exposure:** Based on available data, the classification criteria are not met.· **STOT-repeated exposure:** Based on available data, the classification criteria are not met.· **Aspiration hazard:** Based on available data, the classification criteria are not met.**12 Ecological information**· **Toxicity**· **Aquatic toxicity** No relevant information available.· **Persistence and degradability** No relevant information available.· **Bioaccumulative potential:** May be accumulated in organism· **Mobility in soil:** No relevant information available.· **Other adverse effects** No relevant information available.**13 Disposal considerations**· **Waste treatment methods**· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Incinerate in accordance with local, state and federal regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

(Cont'd. on page 8)

Safety Data Sheet acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 7)

- Uncleaned packagings
- Recommendation: Disposal must be made according to official regulations.

14 Transport Information

· UN-Number	UN0335
· DOT, ADR, IMDG	FORBIDDEN
· IATA	

· UN proper shipping name	Fireworks
· DOT, ADR, IMDG	FORBIDDEN
· IATA	

· Transport hazard class(es)

· DOT



· Class	1.3
· Label	1.3G

· ADR



· Class	1.3
· Label	1.3G

· IMDG



· Class	1.1
· Label	1.3G

· IATA

· Class	FORBIDDEN
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· Packing group

· DOT	II
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· Environmental hazards

· Marine pollutant:	No
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· Special precautions for user	Not applicable.
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(Cont'd. on page 9)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 8)

· EMS Number: F-S,B-X

 · Transport in bulk according to Annex II of
 MARPOL73/78 and the IBC Code Not applicable.

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· United States (USA)

· SARA

· Section 302 (extremely hazardous substances):

None of the ingredients are listed.

· Section 304 (emergency release notification):

None of the ingredients are listed.

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

Contact manufacturer.

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

· Proposition 65 (California)

· Chemicals known to cause cancer:

Contact manufacturer.

· Chemicals known to cause reproductive toxicity for females:

Contact manufacturer.

· Chemicals known to cause reproductive toxicity for males:

Contact manufacturer.

· Chemicals known to cause developmental toxicity:

Contact manufacturer.

· Carcinogenic categories

· EPA (Environmental Protection Agency):

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

Contact manufacturer.

(Cont'd. on page 10)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name: Fireworks, Display

(Cont'd. of page 9)

· NIOSH-Ca (National Institute for Occupational Safety and Health):

Contact manufacturer.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Date of preparation / last revision 01/06/2017 / -

· Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

LDLo: Lowest Lethal Dose Observed

Expl. 1.3: Explosives – Division 1.3

· Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaassen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com

- EMERGENCY RESPONSE
- UN0336, FIREWORKS, 1.4G, PGII,
- UN0431, ARTICLES PYROTECHNICS, 1.4G, PGII,
- UN0432, ARTICLES PYROTECHNICS, 1.4S, PGII,
- UN0325 IGNITERS, 1.4G, PGII, UN0454, IGNITERS, 1.4S, PGII

- POTENTIAL HAZARDS

- Fire or explosion
- May explode and throw fragments 500 meters (1/3 mile) or more if fire reaches cargo.

- Health
- Fire may produce irritating, corrosive and/or toxic gases

- PUBLIC SAFETY

- Call Emergency Response Telephone Number on Shipping Paper. Chem-Tel (800) 255-3924
- Isolate spill or leak area immediately for at least 100 meters (330 feet) in all directions.
- Ventilate closed spaces before entering.

- PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA)
- Structural firefighters' protective clothing will only provide limited protection.

- EVACUATION

- Large Spill
- Consider initial evacuation for 250 meters (800 feet) in all directions.
- Fire
- If rail car or trailer is involved in a fire, ISOLATE for 500 meters (1/3 mile) in all directions; also initiate evacuation including emergency responders for 500 meters (1/3 mile) in all directions.

- EMERGENCY RESPONSE

- Fire
- Cargo Fires
 - Do not fight fire when fire reaches cargo! Cargo may explode
 - Stop all traffic and clear the area for at least 500 meters (1/3 mile) in all directions and let burn.
 - Do not move cargo or vehicle if cargo has been exposed to heat.
- TIRE or VEHICLE Fires
 - Use plenty of water-FLOOD it! If water is not available, use CO₂, dry chemical or dirt.
 - If possible, and WITHOUT RISK, use unmanned hose holders or monitor nozzles from maximum distance to prevent fire from spreading to cargo area.
 - Pay special attention to tire fires as re-ignition may occur. Stand by with extinguisher ready.
- Spill or Leak
 - Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).
 - All equipment used when handling the product must be grounded.
 - DO NOT OPERATE RADIO TRANSMITTERS WITHIN 100 METERS (330 FEET) OF ELECTRIC DOTONATORS.
 - DO NOT CLEAN-UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.
- First Aid
 - Move victim to fresh air. Call 911 or emergency medical service.
 - Apply artificial respiration if victim is not breathing.
 - Administer oxygen if breathing is difficult.
 - Remove and isolate contaminated clothing and shoes.
 - In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
 - Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Revision Date: 02/11/2016 - Revision: 1

Product J-Tek
 Revision Date 02/11/2016
 Revision 1



Safety Data Sheet

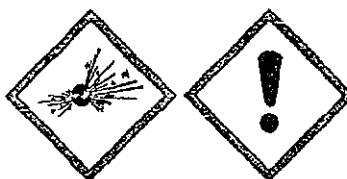
SECTION 1: IDENTIFICATION

Product Name	J-Tek
Identifier Uses	No specific uses identified.
Supplier	MJE Technologies Inc PyroSmart Mexico, S.A. de C.V. Parcela 34 Z 1 1/2, Nuevo Mundo Ejido de Ojocaliente, Zacatecas, Mexico 98705, Mexico Tel: 856-228-6118
Contact Person	info@electrictomatch.com
Emergency Telephone	1-352-323-3500 Contract # 100588

SECTION 2: HAZARDS IDENTIFICATION

Appearance	Solid. Medium brown colored bead of pyrotechnic composition on a copper-clad chip with two PVC insulated connecting wires of various lengths. Red or blue lacquer coating on igniter head.
Color	Medium brown colored.
Odor	No odour information available.

Pictogram(s)



Signal Word	Danger
Hazard Statements	H204 Fire or projection hazard. H271 May cause fire or explosion; strong oxidiser. H302 Harmful if swallowed.

Precautionary Statements	P210 Keep away from heat/ sparks/open flames/hot surfaces. -- No smoking. P221 Take any precaution to avoid mixing with combustibles/[*] P280 Wear protective gloves/ protective clothing/eye protection/face protection. P374 Fight fire with normal precautions from a reasonable distance. P370 + P380 In case of fire: Evacuate area.
---------------------------------	---

Contains	potassium perchlorate
-----------------	-----------------------

GHS Classification	
Physical and Chemical Hazards	Ox Sol 1 - H271, Expl. 1.4 - H204
Human Health	Acute Tox 4 - H302,
Environment	Not classified

OSHA Regulatory Status	This product is Hazardous under the OSHA Hazard communication Standard.
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Inhalation	Inhalation of large amounts of igniter heads may cause respiratory discomfort.
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Revision Date: 02/11/2016 - Revision: 1

Ingestion	Harmful if swallowed.
Skin contact	Thermal burns to the skin caused by accidental ignition of igniters. Not absorbed through the skin.
Eye contact	Thermal burns to the eyes caused by accidental ignition of igniters .
Routes of Exposure	No Information available.
Other Hazards	Not applicable.

SECTION 3: Composition/Information on Ingredients

Name	Product Identifier	GHS Classification	%
potassium perchlorate	CAS-No.: 7778-74-7 EC No.: 231-912-9	Ox Sol 1 - H271, Acute Tox 4 - H302	30-60%
Composition Comments	This product contains proprietary information.		

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General Information	CAUTION! First aid personnel must be aware of own risk during rescue! Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Burns must be treated by doctors. Place unconscious person on the side in the recovery position and ensure breathing can take place. If heart stops, heart-compression must be carried out. In case of accidents: Call an ambulance immediately! Show the MSDS.
Inhalation	If this product is inhaled and symptoms occur, move the exposed person to fresh air promptly. Seek medical attention if symptoms persist.
Ingestion	Get medical attention immediately. Do NOT induce vomiting. If victim is conscious and alert, wash out mouth with water then give water. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep airway clear.
Skin contact	Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning. Consult a doctor.
Eye contact	Do not rub eye. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse. Continue to rinse for at least 15 minutes.

Most important symptoms and effects, both acute and delayed

General Information	The severity of the symptoms described will vary dependant of the concentration and the length of exposure.
Inhalation	Inhalation of large amounts of igniter heads may cause respiratory discomfort.
Ingestion	Harmful if swallowed.
Skin contact	Thermal burns to the skin caused by accidental ignition of igniters. Not absorbed through the skin.
Eye contact	Thermal burns to the eyes caused by accidental ignition of igniters .
Routes of Exposure	No Information available.

Most important symptoms and effects, both acute and delayed

Notes To The Physician	Treat Symptomatically.
------------------------	------------------------

SECTION 5: Firefighting Measures

Auto Ignition Temperature (°C)	No Information available.
Flammability Limit - Lower(%)	No Information available.
Flammability Limit - Upper(%)	No Information available.
Flash point	No Information available.
Extinguishing Media	Use fire-extinguishing media appropriate for surrounding materials.
Hazardous combustion products	Smoke contains Boron and Titanium.
Unusual Fire & Explosion Hazards	Burning igniters will project sparks several feet and can cause secondary fires. Igniters may rupture a container if ignited under confinement. Igniters may be ignited by extreme impact, friction or electrostatic discharge.
Special Fire Fighting Procedures	If possible, fight fire from protected position. Avoid breathing fire vapours. Keep up-wind to avoid fumes. Ventilate closed spaces before entering them. Containers close to fire should be removed immediately or cooled with water. Use water spray to cool container and prevent

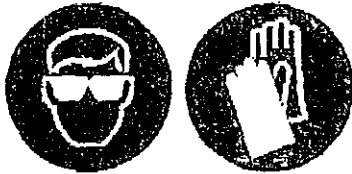
Protective equipment for fire-fighters	rupture. Fire fighters should wear full protective equipment, including a self-contained breathing apparatus. Water should be used to cool surrounding containers.
--	---

SECTION 6: Accidental Release Measures

Personal Precautions	Use proper personal protection (refer to Section 8).
Environmental Precautions	Run off from fire control or dilution water may cause pollution. Keep out of drains, municipal sewers, open bodies of water and water course.
Spill Clean Up Methods	Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

SECTION 7: Handling and Storage

Handling	Read and follow manufacturer's recommendations. Do not handle broken packages without protective equipment. Avoid spilling, skin and eye contact. Do not use contact lenses. Keep away from heat, sparks and open flames. Take precautionary measures against static discharges when there is a risk of dust explosion.
Usage Description	Use only according to directions.
Storage Precautions	Store igniters in accordance with local, state and federal regulations. Keep dry and avoid temperatures above 120 degree F. Store in closed container away from incompatible materials, sunlight and heat to prolong shelf life. Minimize exposure in accordance with good hygiene practices. Keep out of reach of children. Keep away from food and drink. Containers opened must be resealed and kept upright. Do not store in unlabelled containers.
Specific End Use(s)	Igniter.

SECTION 8: Exposure Controls/Personal Protection**Protective Equipment**

Ingredient Comments	No occupational exposure limits noted for the ingredients(s).
----------------------------	---

Process Conditions
Engineering Measures
Respiratory Equipment
Hand Protection

Ensure that eye flushing systems and safety showers are located close to the working place. Provide adequate ventilation.
 If ventilation is inadequate use a suitable respirator.
 The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Due to risk of fire, leather footwear and cotton clothing should never be used. Long sleeved shirt, trousers, rubber boots, rubber gloves, and rubber apron.

Eye Protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hygiene Measures

Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Take off immediately all contaminated clothing. Avoid contact with skin, eyes and clothing.

SECTION 9: Physical and Chemical Properties**Information on Basic Physical and Chemical Properties**

Appearance	Solid. Medium brown colored bead of pyrotechnic composition on a copper-clad chip with two PVC insulated connecting wires of various lengths. Red or blue lacquer coating on igniter head.
Color	Medium brown colored.

Revision Date: 02/11/2016 - Revision: 1

Odor	No odour information available.
Odor Threshold - Lower	No Information available.
Odor Threshold - Upper	
pH-Value, Conc. Solution	No Information available.
pH-Value, Diluted Solution	No Information available.
Melting point	No Information available.
Initial boiling point and boiling range	No Information available.
Flash point	No Information available.
Evaporation rate	No Information available.
Flammability State	No Information available.
Flammability Limit - Lower(%)	No Information available.
Flammability Limit - Upper(%)	No Information available.
Vapor pressure	No Information available.
Vapor Density (air=1)	No Information available.
Relative density	No Information available.
Bulk Density	No Information available.
Solubility	No information available.
Decomposition temperature	No Information available.
Partition coefficient; n-octanol/water	No Information available.
Auto Ignition Temperature (°C)	No Information available.
Viscosity	No Information available.
Explosive Properties	Bead of pyrotechnic composition on a copper-clad chip with two PVC insulated connecting wires of various lengths.
Oxidizing Properties	No Information available.
Molecular Weight	No Information available.
Volatile Organic Compound	No Information available.

SECTION 10: Stability and Reactivity

Reactivity	Reaction with heat, acids and reducing agents.
Stability	Stable under normal temperature conditions and recommended use.
Hazardous Polymerisation	Will not polymerise.
Hazardous Decomposition Products	Smoke contains oxides of Boron and Titanium.
Conditions to Avoid	Avoid contact with strong oxidisers. Avoid heat, flames and other sources of ignition.
Materials to Avoid	Keep away from strong acids. Keep away from strong reducing agents and strong oxidising agents.

SECTION 11: Toxicological Information

Toxicological Information	No toxicological information for the overall finished product.
Acute Toxicity (Oral LD50)	No Information available.
Acute Toxicity (Dermal LD50)	No Information available.
Acute Toxicity (Inhalation LC50)	No Information available.
Skin Corrosion/Irritation	No Information available.
Respiratory Sensitisation	No Information available.
Skin Sensitisation	No Information available.
Reproductive Toxicity:	No Information available.
Germ Cell Mutagenicity:	
Genotoxicity - In Vitro	
Genotoxicity - In Vivo	
Carcinogenicity:	
Carcinogenicity	No Information available.
NTP - Carcinogenicity	The product and its components are not listed.
OSHA - Carcinogenicity	The product and its components are not listed.
IARC Carcinogenicity	The product and its components are not listed.
Specific Target Organ Toxicity - Single Exposure:	
STOT - Single Exposure	No Information available.
Specific Target Organ Toxicity - Repeated Exposure:	
STOT - Repeated Exposure	No Information available.

SECTION 12: Ecological Information

Ecotoxicity	The product does pose an environmental hazard.
Acute Toxicity - Fish	No Information available.
Acute Toxicity - Aquatic Invertebrates	No Information available.
Acute Toxicity - Aquatic Plants	No Information available.
Degradability	There are no data on the degradability of this product.
Bioaccumulative Potential	No data available on bioaccumulation.
Mobility	No information available.
Results of PBT and vPvB Assessment	No information available.
Other Adverse Effects	No information available.

SECTION 13: Disposal Considerations

Waste Management	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
Disposal Methods	Waste disposal must be in accordance with appropriate federal, state, and local regulations.

SECTION 14: Transport Information**UN Number**

UN No. (DOT/TDG)	UN454
UN No. (IMDG)	UN454
UN No. (IATA)	UN0454

Proper Shipping Name

DOT/TDG Proper Shipping Name	IGNITERS
IMDG Proper Shipping Name	IGNITERS

IATA Proper Shipping Name	Igniters
----------------------------------	-----------------

Transport Hazard Class(es)

DOT/TDG Class	1.4
IMDG Class	1.4 S
IATA Class	1.4S

Transport Labels**Packing Group(s)**

DOT Packing Group	<none>
IMDG Packing Group	-
IATA Packing Group	<none>

Special Precautions for User

EMS	F-B, S-X
------------	----------

Environmentally Hazardous Substance/Marine Pollutant

ADR	No
IMDG	No
IATA	No

SECTION 15: Regulatory Information**US Federal Regulations**

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
The Following ingredients are listed None Listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
The Following ingredients are listed None Listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities
The Following ingredients are listed None Listed.

SARA 313 Emission Reporting
The Following ingredients are listed None Listed.

CAA Accidental Release Prevention
The Following ingredients are listed None Listed.

OSHA Highly Hazardous Chemicals
The Following ingredients are listed None Listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins
The Following ingredients are listed None Listed.

California Air Toxics "Hot Spots" (A-I)
The Following ingredients are listed None Listed.

California Air Toxics "Hot Spots" (A-II)
The Following ingredients are listed None Listed.

Massachusetts "Right To Know" List
The Following ingredients are listed potassium perchlorate

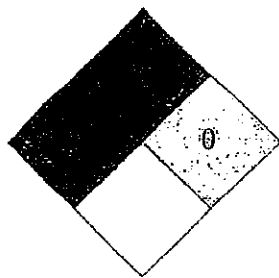
Rhode Island "Right To Know" List

Revision Date: 02/11/2016 - Revision: 1

The Following ingredients are listed	None Listed.
Minnesota "Right To Know" List	
The Following ingredients are listed	None Listed.
New Jersey "Right To Know" List	
The Following ingredients are listed	boron potassium perchlorate titanium
Pennsylvania "Right To Know" List	
The Following ingredients are listed	potassium perchlorate

SECTION 16: Other Information

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

Health	0
Flammability	0
Physical Hazard	0
Personal Protection	

Revision Comments	This is first issue
Revision Date	02/11/2016
Revision	1

Disclaimer
ALL INFORMATION APPEARING HEREIN IS BASED UPON DATA OBTAINED FROM THE MANUFACTURER AND/OR RECOGNIZED TECHNICAL SOURCES. THIS INFORMATION IS BELIEVED TO BE CORRECT, BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. MJG TECHNOLOGIES INC. MAKES NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY OR COMPLETENESS OF THIS INFORMATION. IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SUITABILITY OF THIS INFORMATION FOR THE ADOPTION OF NECESSARY SAFETY PRECAUTIONS AND/OR COMPLIANCE WITH LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS.



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

5/18/2026

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Acrisure Great Lakes Partners Insurance Services, LLC 223 West Grand River Ave #1 Howell MI 48843 INSURED Francisco Display Fireworks, LLC 516 Old Mayfield Road Danville VA 24541	CONTACT NAME: PHONE (A/C, No, Ext): 216-658-7100 FAX (A/C, No): E-MAIL ADDRESS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">INSURER(S) AFFORDING COVERAGE</th> <th style="text-align: left;">NAIC #</th> </tr> <tr> <td>INSURER A : Palomar Excess and Surplus Insurance Company</td> <td>16754</td> </tr> <tr> <td>INSURER B :</td> <td></td> </tr> <tr> <td>INSURER C :</td> <td></td> </tr> <tr> <td>INSURER D :</td> <td></td> </tr> <tr> <td>INSURER E :</td> <td></td> </tr> <tr> <td>INSURER F :</td> <td></td> </tr> </table>	INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A : Palomar Excess and Surplus Insurance Company	16754	INSURER B :		INSURER C :		INSURER D :		INSURER E :		INSURER F :	
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INSURER D :															
INSURER E :															
INSURER F :															

 License#: BR-1796277
 FRANDIS-01

COVERAGES

CERTIFICATE NUMBER: 2077535231

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR ☐ GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☒ PROJECT ☒ LOC ☐ OTHER:		AESPLMR-GL-26-00117	4/20/2026	4/20/2027	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 500,000 MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 \$
	AUTOMOBILE LIABILITY ☐ ANY AUTO ☐ OWNED AUTOS ONLY ☐ HIRED AUTOS ONLY ☐ SCHEDULED AUTOS ☐ NON-OWNED AUTOS ONLY					COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	UMBRELLA LIAB ☐ OCCUR EXCESS LIAB ☐ CLAIMS-MADE DED RETENTION \$					EACH OCCURRENCE \$ AGGREGATE \$ \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	☐ Y ☒ N ☐ N/A				PER STATUTE OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Additional Insured extension of coverage is provided by above referenced General Liability policy where required by written agreement.

Location: Main Street 35.229302, -77.846334

Date: 6/27/2026

Additional Insureds: Wayne County

CERTIFICATE HOLDER

CANCELLATION

 Town of Seven Springs
 304 Main Street
 Seven Springs NC 28578
 United States

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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Seven Springs Fireworks 6/27/26

[REDACTED]

[REDACTED]

STATE OF NORTH CAROLINA

LEASE AGREEMENT

COUNTY OF WAYNE

THIS LEASE AGREEMENT ("Lease"), made and entered into as of the last date set forth in the notary acknowledgments below, by and between the **COUNTY OF _WAYNE_**, a body politic and corporate, hereinafter referred to as "Lessor"; and the **STATE OF NORTH CAROLINA**, a body politic and corporate, hereinafter referred to as "Lessee." Lessor and Lessee are at times collectively referred to hereinafter as the "Parties" or individually as the "Party."

W I T N E S S E T H:

WHEREAS, pursuant to N.C. Gen. Stat. § 15-209 (a) ("Probation Office Accommodation Statute") the county commissioners of a county in which a probation office exists are required to provide suitable office space in or near the courthouse for probation officers and their administrative staff assigned thereto; and

WHEREAS, pursuant to N.C. Gen. Stat. § 143-341(4) the North Carolina Department of Administration ("NCDOA") has the power and duty to lease space in buildings for Lessee and its agencies and is required to keep a complete and accurate database of such leased space that includes certain data; and

WHEREAS, Lessor and Lessee, through NCDOA, desire to enter into this Lease in part to satisfy and document their respective statutory obligations; and

WHEREAS, the North Carolina Department of Adult Correction, Division of Community Supervision ("NCDAC") has approved the execution of this instrument for the purposes herein specified; and

WHEREAS, pursuant to N.C. Gen. Stat. § 146-32, authority to approve and execute this Lease was delegated to NCDOA by resolution adopted by the Governor and Council of State on the 1st day of September, 1981; and as amended on the 8th day of September 8, 1999, the 7th day of December 7, 1999 and the 6th day of October, 2020 (collectively, the "COS Resolutions"); and

WHEREAS, in accordance with the COS Resolutions NCDOA has further delegated its authority to approve and execute this Lease to NCDAC; and

WHEREAS, the Parties hereto have mutually agreed to the terms of this Lease as hereinafter set out.

NOW, THEREFORE, in consideration of the Premises, as described herein, the Probation Office Accommodation Status and the covenants, conditions and provisions hereinafter set forth, Lessor does hereby rent, lease and demise unto Lessee, and Lessee hereby takes and leases from Lessor, for and during the term and under the terms and conditions hereinafter set forth, the Premises, as described herein.

-Page 1 of 9

1. Premises. The “Leased Premises” or “Premises” means that certain office space consisting of approximately 849 square feet, located at 224 E. Walnut Street, 2nd Floor, with all rights, privileges and appurtenances thereto belonging, situated in a building lying and being in Township, City / Town of Goldsboro, Wayne County (the “County”), North Carolina, as shown and more particularly described on Exhibit A, attached hereto and incorporated herein by this reference.

NCDAC, PROBATION AND PAROLE
DIVISION 1, DISTRICT 8

2. Term. The term of this Lease shall be for a period of three (3) year(s), commencing on the 1st day of June, 2026 (the “Commencement Date”) and terminating on the 31st day of May, 2029 (the “Term”).

3. Rent. Lessee shall pay to Lessor as rental for the Premises, the sum of ONE DOLLAR (\$1.00) for the Term.

4. Use of Leased Premises. In accordance with the Probation Office Accommodation Statute, the Premises shall be used by Lessee as office workspace for NCDAC employed probation officers and administrative support staff assigned to the County.

5. Compliance. Lessee agrees to comply with all governmental laws, rules, ordinances and regulations applicable to the Premises or Lessee’s use thereof.

6. Maintenance and Services. During the Term, Lessor, at its sole cost and expense, shall maintain the Premises in a manner that is consistent with its upkeep of other comparable Lessor owned office space and shall, to the extent applicable to the Premises, furnish the following facilities, services and appurtenances:

- A. Heating facilities, air conditioning facilities, adequate electrical facilities, adequate lighting fixtures and electrical sockets, hot and cold-water facilities, and adequate toilet facilities.
- B. Maintenance of lawns, landscaping, sidewalks, paved areas, snow removal and disposal of trash, including provision for the handling of recyclable items such as aluminum cans, cardboard and paper.
- C. Required fire extinguishers and servicing, pest control, and outside trash disposal. All pesticides must be applied by a licensed technician.
- D. Janitorial services and supplies; provided that such services shall only be furnished on weekdays when Lessor’s offices are open.
- E. All utilities, except information technology and telecommunications.
- F. Parking to accommodate a minimum of 9 employee vehicles, 9 State employee vehicles and/or as available clientele vehicles.

- G. Access to the Premises for persons with disabilities and access to a restroom suitable for use by disabled persons.
- H. Fire or safety inspections.
- I. Payment of storm water fees.
- J. Keys or access cards to the Premises for each employee of Lessee assigned to work therein.
- K. Any additional matters or obligations set forth in the signed "Proposal to Lease to the State of North Carolina" (Form PO-28) attached hereto and incorporated herein as Exhibit B.

7. Inspection and Improvement. Lessor reserves the right, after giving prior notice, to enter and inspect the Premises, at reasonable times and to make necessary repairs to the Premises. Lessee shall not make any improvements or alterations to the Premises without Lessor's prior written consent. Unless so instructed by Lessor when it provides its written consent, Lessee shall have no duty to remove any improvement or alteration it makes to the Premises. In the event Lessee does remove its improvements or alterations, and such removal causes damage to the Premises, Lessee shall repair the damage at its sole cost and expense.

8. Insurance and Liability.

- A. Lessor agrees that Lessee's decision to self-insure satisfies all insurance requirements of this Lease applicable to Lessee.
- B. Lessee is an immune sovereign and is not ordinarily subject to suit. However, Lessee has enacted Chapter 143, Article 31, of the North Carolina General Statutes (the "Tort Claims Act"), pursuant to which the Lessee may be liable for the torts of its officers and employees, within the terms of the Tort Claims Act. Accordingly, Lessee will be primarily liable for any claims within the coverage of the Tort Claims Act.
- C. Lessor is a body corporate and as such is ordinarily immune from liability for damage by reason of death or injury to person or property; however, Lessor may waive its immunity pursuant to applicable law if it is indemnified by a policy of insurance. Accordingly, Lessor agrees, solely to the extent indemnified by an insurance policy such that any amounts paid by Lessor to Lessee comes from insurance proceeds and not from Lessor's funds, to save Lessee harmless from and against any and all loss, damage, claim, demand, liability, or expense, including reasonable attorney's fees, by reason of damage to any person(s) or property on or about the Premises, which may arise or be claimed to have arisen as a result of the use or possession of the Premises by Lessee, its agents or employees, except where such loss or damage arises from the willful or negligent misconduct of Lessee, its agents or employees.

9. No Waiver of Immunity. No provision of this Lease shall be construed as constituting a waiver of Lessee's sovereign immunity or Lessee's immunity under the Eleventh Amendment of the Constitution of the United States and Lessee's liability for any claims shall be limited to the extent and manner of recovery provided in the Tort Claims Act. No provision of this Lease shall be construed as constituting a waiver of Lessor's or Lessee's sovereign, governmental, or statutory immunity or any other legal or equitable defense if otherwise available pursuant to law.

10. Holdover. Any holding over after the expiration of the Term, without the exercise of a renewal option or the execution of a new lease, shall be construed to be a tenancy from month to month, and shall otherwise be on the terms and conditions herein specified, so far as applicable; however, either Party shall give not less than sixty (60) days written notice to terminate the month to month tenancy.

11. Surrender of Premises. Upon the expiration of the Term or the earlier termination of this Lease, Lessee will peaceably surrender the Premises in as good order and condition as when received, reasonable use and wear excepted.

12. Quiet Possession. Lessor agrees that Lessee, upon keeping and performing the covenants and agreements herein contained, shall at all times during the Term peaceably and quietly have, hold, and enjoy the Premises free from the adverse claims of any person.

13. Availability of Funds. The Parties agree and understand that the continuation of this Lease for the Term is dependent upon and subject to the appropriation, allocation or availability of funds for this purpose to the agency of Lessee responsible for payment of personnel costs, rent and other expenses associated with this Lease. The Parties also agree that in the event the agency of Lessee or that body responsible for the appropriation of said funds, in its sole discretion, determines in view of its total local operations that available funding for the payment expenses associated with this Lease is insufficient to continue Lessee's operations on the Premise, it may choose to terminate this Lease by giving Lessor written notice of said termination, and this Lease shall terminate immediately without any further liability to Lessee.

14. Prohibition on Gifts. North Carolina General Statute §133-32 and Executive Order 24 prohibit the offer to, or acceptance by, any employee of Lessee of any gift from anyone with a contract with Lessee, or from any person seeking to do business with Lessee. By execution of this Lease, Lessor attests, for its entire organization, including its employees or agents, that it is not aware that any such gift has been offered, accepted, or promised by any employees of its organization.

15. Assignment and Subletting. This Lease may not be assigned or the Premises subleased by Lessee, in whole or in part, without the express written approval of Lessor.

16. Amendment. This Lease shall not be modified or amended except by an instrument in writing executed by or on behalf of Lessor and Lessee.

17. Binding Effect. This Lease shall be binding upon and inure to the benefit of Lessor and

Lessee, their successors and permitted assigns.

18. Entire Agreement. This instrument contains the entire agreement between the Parties, and no statement, premise, inducement, representation or prior agreement which is not contained in this written Lease shall be valid or binding. The recitals in this Lease and the Exhibits attached hereto are hereby incorporated herein to the same extent as if fully set forth.

19. Severability. In case any one or more of the provisions contained in this Lease shall for any reason be held to be invalid, illegal, or unenforceable in any respect, such invalidity, illegality or unenforceability shall not affect any other provision hereof and this Lease shall be construed as if such invalid, illegal, or unenforceable provision had never been contained herein.

20. Applicable Law. This Lease shall be governed by, construed and enforced in accordance with the laws of the State of North Carolina and court actions arising therefrom may be brought only within the courts of the State of North Carolina.

21. Effect of Waiver or Forbearance. The failure of either Party to insist in any instance upon strict performance of any of the terms and conditions herein set forth shall not be construed as a waiver of the same in any other instance.

22. Construction and Terms. No provision of this Lease shall be construed against or interpreted to the disadvantage of any Party by any court or other governmental or judicial authority by reason of such Party's having or being deemed to have prepared or imposed such provision. The section or paragraph headings and the titles are not a part of this Lease and shall have no effect upon the construction and interpretation of any part hereof. Capitalized terms used in this Lease shall have the meanings ascribed to them at the point where first defined, irrespective of where their use occurs, with the same effect as if the definitions of such terms were set forth in full and at length every time such terms are used.

23. Counterparts. This Lease may be executed in two or more counterparts, each of which shall be deemed an original, and all of such counterparts together shall constitute one and the same instrument.

24. Memorandum of Lease for Recording. At the request of either Party, Lessor and Lessee shall execute a memorandum of this Lease for recording in the public records at the requesting Party's sole cost and expense. Such memorandum of Lease shall describe the Parties, set forth a description of the Premises, specify the Term and incorporate this Lease by reference.

25. Notices. All notices, requests and other communications hereunder shall be deemed to have been fully given, by either Party to the other, when made in writing and either deposited in the United States mail (sent certified, return receipt requested); personally delivered; or transmitted by overnight courier for next business day delivery to the addresses of Lessor and Lessee set forth below, or to such other addresses as the Parties may, from time to time, designate by written notice.

If intended for Lessor, addressed to Lessor, at:

County of Wayne
Administration
Attn: County Manager
224 E. Walnut Street
Goldsboro, North Carolina 27530

If intended for Lessee, addressed to Lessee, at:

North Carolina Department of Adult Correction
Purchasing
Attn: Real Property Office
5227 Mail Service Center
3512 Bush Street
Raleigh, North Carolina 27699

With copy to:

North Carolina Department of Administration
State Property Office
Attn: Manager, Leasing and Space Planning Section
1321 Mail Service Center
Raleigh, North Carolina 27699

[remainder of page intentionally left blank - signatures begin on the following page]

IN TESTIMONY WHEREOF, this Lease has been executed by the Parties under seal, in duplicate originals, as of the dates set forth in the notary acknowledgments below.

LESSOR:

WAYNE COUNTY

By:  (sign)_

Print Name: Chip Crumpler

Title: County Manager

ATTEST:


County Clerk

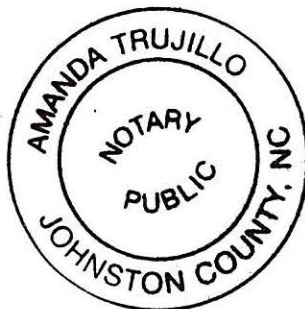


STATE OF NORTH CAROLINA

COUNTY OF Johnston

I, Amanda Trujillo, a Notary Public in and for the aforesaid County and State do hereby certify that Chip Crumpler personally came before me this day and acknowledged that he/she is the County Manager and that by authority duly given and as an act of Wayne County, the foregoing instrument was signed by Chip Crumpler, Kayla Whitley (title), attested by himself/herself as Clerk and sealed with the common seal.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this the 3 day of June, 2026.



Notary Public: 

Print Name: Amanda Trujillo

My Commission Expires: 12/17/28

LESSEE:

STATE OF NORTH CAROLINA

By: _____ (sign) _____
Print Name: Joanne Rowland _____
Title: Director of Purchasing _____

STATE OF NORTH CAROLINA

COUNTY OF _____

I, _____, a Notary Public for the County of _____, North Carolina, do hereby certify that _Joanne Rowland_, personally came before me this day and acknowledged the due execution of the foregoing instrument as the Director of Purchasing, North Carolina Department of Adult Correction, for the purposes therein expressed.

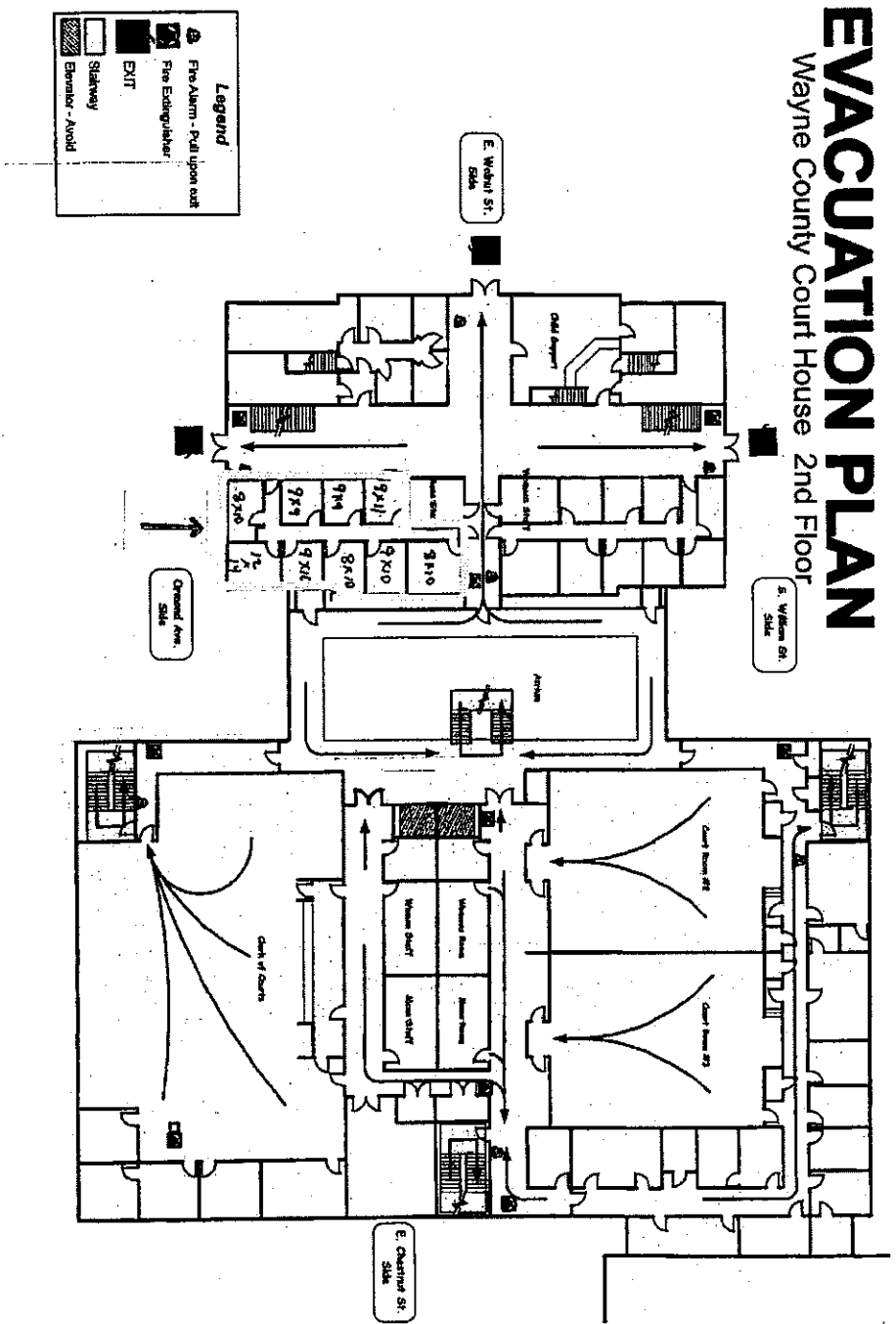
IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this the _____ day of _____, 202__.

Notary Public: _____

Print Name: _____

My Commission Expires: _____

Exhibit A



County owned; +/- 849 net square feet (no additional cost for +/- square feet)

MEMORANDUM

To: Wayne County Board of Commissioners

From: Chip Crumpler, Wayne County Manager

Date: May, 29 2026

Re: On call sevices

Wayne County advertised for On Call Engineering Services on 5/5/2026.

The request for qualifications(RFQ) closed on 5/18/2026.

It is the recommendation of the County Manager for the County to add two firms to the list of on-call professional engineering services.

1. Garver
2. The Wooten Company

We are requesting the Board of Commissioners approve this change to allow two additional companies be added to the list of on call professional engineering services.



ENGINEERING LEADERSHIP YOU CAN TRUST



REQUEST FOR QUALIFICATIONS FOR
Professional Engineering On-Call Services

MAY 18, 2026



2500 Regency Parkway
Office 223
Cary, NC 27518
www.GarverUSA.com

May 18, 2026

RE: Wayne County RFQ for Professional Engineering On-Call Services

Dear Selection Committee,

I have had the privilege of working closely with Wayne County over the years. I value our relationship and look forward to the opportunity to continue our partnership. While my move to Garver is new, my commitment to Wayne County and dedicated level of service will not change. ***My goal is to continue being a familiar, trusted partner, delivering the quality and responsiveness you've come to rely on, now backed by the local and national resources of Garver.***

You'll continue working with a project partner who understands your system and priorities and can respond quickly as needs arise. I (Reed) will continue to serve as your on-call manager and key principal. Our team is ready to step in quickly and support any of your on-call task orders and projects. Through years of collaboration, I've developed a strong working knowledge of your system and goals, allowing me to start assignments efficiently and with minimal ramp up. Supported by Garver's multidisciplinary team, I will bring together regional industry-leading experts and top national resources while providing continuity throughout the life of your projects.

Our Greenville Water Design Center has all the resources to support any project—large or small, simple or complex. With more than 70 water and wastewater professionals throughout the Carolinas, we have the staff needed to keep your projects on track. Wayne County will also benefit from access to our national technical specialists including Tim MacVittie, pumping expert; Ian Toohey, leader of our planning and modeling team; and Greg Knight, our national wastewater practice lead. Tim, Ian, and Greg are all within driving distance to Wayne County and will be readily available to support your projects. Together, we can provide the appropriate expertise to support Wayne County with practical, sound solutions.

We're committed to providing consistent, attentive service to Wayne County. My proximity to Wayne County allows for as-needed in-person meetings and consistent contact throughout any project assignment, helping address issues early and keep work moving efficiently. Through regular check ins, on site meetings, and collaboration with your staff, our consulting and engineering work will meet your technical, operational, and safety needs. No matter the question or concern, I'm just a call away and a short drive from providing on-site support.

Wayne County is a long-standing and important client to me, and I value the relationships we've built over time as we have tackled utility and engineering challenges together. I'll remain closely involved and accessible, with the added support of Garver's strong local resources to meet your on-call needs. If you have any questions, please contact me at (984) 407-9171 or RMBarton@GarverUSA.com.

Sincerely,
GARVER

A handwritten signature in blue ink that reads 'Reed M. Barton'.

Reed Barton, PE, Assoc. DBIA
On-Call Manager and Key Principal

Table of Contents

Firm Overview	1
Building on our leadership's history with you, we will leverage Garver's national resources for your success.	
Technical Approach	4
We will leverage our on-call experience and proven approach for task orders to deliver tailored solutions.	
Project Team & Key Principal	7
Garver pairs familiar leadership you can trust with the technical expertise to address all of your project needs.	
Relevant Experience & Contact Info	11
Our team's combined experience and proven track record reflect our dedication to quality, technical expertise, and responsiveness.	
Required Forms	i

1.

Firm Overview

Building on our leadership's history with you, we will leverage Garver's national resources for your success.



We are submitting for the following categories:

- 1 Wastewater Collection System Projects
- 2 Wastewater Treatment Projects
- 6 Construction Administration, Architecture, Structural, Plumbing, Mechanical and Electrical



Who We Are

Garver has grown tremendously since we first opened our doors in 1919, but one thing remains the same—providing effective client service through our local expertise and national resources.

With more than 1,450 employees in 60 offices across 20 states, Garver is a multidiscipline company offering a wide variety of services. For more than a century, we've been serving communities like Wayne County by providing **collaborative solutions** to water and wastewater infrastructure challenges, all while maintaining **schedule-driven** and **budget-conscious** design delivery methods that address **long-term needs**.

A Dedicated Local Team

Garver has built a reputation for delivering dedicated services in North Carolina, backed by our extensive Water Design Center resources and local leadership's experience in the state. We've established ourselves in communities across North Carolina by providing a **fresh perspective** to new and existing challenges, while staying true to our roots as experts in **operations-focused collaboration**. Now, Garver is ready to bring that same dedicated service and operations expertise to Wayne County.

Garver's Full-Service Capabilities

Garver offers a wide range of services focused on water, wastewater, transportation, aviation, buildings, construction, enterprise solutions, federal, and survey. Our regional in-house coordination saves valuable time and resources while producing quality work. We have the personnel and experience to deliver program and project management, planning, value engineering, cost estimating, scheduling, design, surveys construction management, financing support, and community engagement.



By the Numbers

107
Years in Business

2022
Opened our doors
in North Carolina

41
Clients across
the Carolinas

18
Current On-Call
Contracts & MSA's in
the Carolinas

A Familiar Face

Reed Barton will serve as your on-call manager and key principal, bringing Wayne County a trusted leader with whom your staff already has a proven working relationship. Reed is known for his responsive service, clear communication, and technically sound solutions that align with owner priorities. His familiarity with Wayne County's needs and goals will allow work to begin efficiently, with confidence from day one.

What's new is that Reed brings the full strength of Garver. In addition to your trusted partnership with Reed, Wayne County projects will be supported by a national, multidisciplinary firm with extensive water and wastewater expertise. Garver provides deep technical expertise, nationwide resources, and the ability to scale quickly to meet evolving demands. **Together, Reed and Garver offer continuity, leadership, and expanded capability; combining trusted experience with the stability and reach of a national engineering firm.**



Reed will work hand-in-hand with our local project managers to leverage Garver's three unique resource teams to address your needs.

No matter the project type or size, we have the resources to solve every challenge. The teams highlighted below are key to the reputation we've built around delivering efficient and cost-effective solutions.

Water Design Center

Garver's Water Design Center (WDC) houses multidisciplinary service experts all under one roof, promoting **collaborative and efficient** design delivery for your on-call projects. A full-service team of more than 60 water and wastewater professionals sits in Greenville, South Carolina, and they are ready to tackle any challenge using the latest technologies.



Chris Kolkhorst, PE
Conveyance & Linear

Chris's extensive background in treatment and conveyance helps him see projects from all angles and deliver tailored solutions that meet the needs of each facility and operator.



Subject Matter Experts

These subject matter experts (SMEs) were strategically assembled to balance academia with common-sense delivery. They address clients' most pressing concerns, using expertise across the water and wastewater spectrum to develop **operable and efficient solutions** that are tailored to your system.



Tim MacVittie, PE, LEED AP, ENV SP
National Pumping Expert

Tim has extensive experience designing and optimizing water, wastewater, and stormwater pumping facilities of all sizes. He focuses on aligning client goals with practical solutions.



Modeling and Planning Team

Our planning and modeling team specializes in hydraulic modeling, alternatives evaluation, optimization, master planning, and data analytics to evaluate and properly plan a path forward for your infrastructure, providing a **fresh perspective** to meet your long-term operational goals.



Ian Toohey, PE
Modeling and Master Planning

Ian leads our modeling and planning team. He brings an adaptable approach, understanding that clients' needs evolve over time, prepared to adjust accordingly to establish trust.



Our team is built to address your various on-call needs.

Garver has the resources and expertise to support a wide range of projects for Wayne County. We will leverage our experiences and lessons learned to customize our services so that you receive the best-value solutions for your system goals. Many members of Garver's leadership have utility operations backgrounds, and as a company, we take pride in bringing an operations-focused mindset into our design process. Below, we have included a summary of the support we will provide for the work listed in each category we are submitting on.



Wastewater Collection System Projects

Garver's modeling and planning team is comprised of engineers who specialize in hydraulic modeling, alternatives evaluations, optimization, master planning, and data analytics to properly plan and evaluate your infrastructure project. This team works closely with the WDC to efficiently bring high-quality, practical results.



Wastewater Treatment Projects

The industry's tradition of empirical methods and rule-of-thumb criteria often result in one-size-fits-all designs, which fail to address the differences between treatment plants. However, Garver embraces a tailored evaluation and an innovative approach to design. Large or small, we can deliver custom designs and rehabilitation for any plant.



Construction Administration

Garver will take your project beyond design with our bidding and construction administration services. Our Construction Services team includes 58 construction engineers and observers company-wide. They provide services ranging from periodic observation to full-time resident observation.



Architecture

Garver's architectural design services facilitate a holistic approach, allowing us to seamlessly meet our client's needs. Garver's architects create well-conceived, appealing, and embraceable designs that blend aesthetic concepts and functional requirements.



Structural Engineering

Our structural engineering team designs solutions that maintain integrity and increase longevity in both new and rehabilitation projects. These professionals work collaboratively with other discipline-specific engineers in the WDC to maximize efficiency and provide consistency on your facility design projects.



Plumbing

Garver's WDC is built to deliver a comprehensive, full-service approach for our clients. Our team of multidiscipline professionals will leverage combined expertise and shared lessons learned to tackle any plumbing challenge your facilities and systems may face.



Mechanical

Garver's mechanical capabilities include design of energy-efficient HVAC systems; fire protection and suppression systems; geothermal heat pump systems; stormwater and wastewater pumping stations; compressed air systems; ventilation systems; and hydraulic systems.



Electrical

Our electrical team can design any type of system to address any needs you have, including SCADA, I&C, and interface systems. They work collaboratively with our process design teams to make sure that the electrical elements within your plant provide redundancy for the processes put in place.

2.

Technical Approach

We will leverage our on-call experience and proven approach for task orders to deliver tailored solutions.

Proposed Approach to Fulfilling On-Call Projects

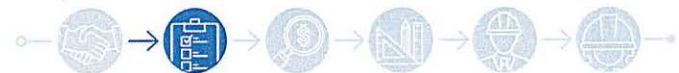
We have developed a general on-call project approach based on our experience supporting similar programs across the Carolinas and the region. This proven approach follows a clearly defined path shown in the graphic below and can be tailored to fit your project requirements. If needed, emergency and maintenance projects can be delivered using a streamlined approach, as required by Wayne County.



Initial Scoping Meeting

Garver's approach to project scoping starts with **actively listening to the needs of our client in an initial scoping meeting**. We believe understanding scope early positions a project for success. We'll use this valuable time to confirm project needs, staff preferences, key constraints, and other important considerations. We also recognize that for on-call task orders, timing is even more important, especially for repair and rehabilitation projects which require immediate attention.

Reed Barton is focused on providing unmatched client service, and will work with our team's practitioners and design staff to provide an initial response back to the County regarding new task orders within 1-2 business days. Further, we will develop thoughtful scopes and fees that accurately reflect your project goals, saving time from multiple iterations. Garver's team routinely responds to our client's requests for rapid scope development to keep their systems running efficiently.



Project Kickoff

Garver's project management strategy is built on a foundation of **proactive coordination and schedule-driven execution**. During the project kickoff, we will reiterate the scope, schedule, and goals identified in the initial scoping meeting. This meeting also gives Wayne County the opportunity to meet key design team members. We will develop a detailed project management plan to establish the project's budget and schedule for the necessary milestones to achieve the project goals.



Preliminary Design

While each on-call task order is unique, Garver follows a proven design process for optimum efficiency and quality. Each design is customized to the specific project but follows the design process, outlined on the following page:

PRELIMINARY INVESTIGATION AND COORDINATION

While each project has its own specific requirements and design elements, Garver will obtain input from our deep bench of qualified engineers while coordinating the necessary site investigations and County/Stakeholder input to produce preliminary engineering submittals.

PERMITTING COORDINATION

Preliminary design will identify necessary permits and summarize them in a permitting coordination memo.

30% PRELIMINARY DESIGN DOCUMENTS

The results of the preliminary design phase will be compiled into a set of 30% preliminary design documents. This design package will include initial survey documents, geotechnical and other preliminary investigation reports, as well as 30% design drawings, outline for technical specifications, and initial Opinion of Probable Construction Cost (OPCC).



Detailed Design

Following approval of 30% preliminary design documents, Garver will proceed to detailed design with milestones to include 60% draft documents, 90% permitting documents, and 100% bid-ready documents.

Each design package will contain design drawings, technical specifications, permitting requirements, and an updated OPCC. If required by Wayne County, condensed design submittals allow Garver to compress the project design schedule, optimize the review period for Wayne County, and expedite construction. If project scope, complexity, or timeline requires a different submittal or milestone approach, Garver can adapt accordingly.



Bidding Services

Garver will plan for and assist Wayne County with all project activities during the bid period of the project. We have experience developing bid-phase documents that increase the successful selection of a highly qualified and skilled contractor. When developing these documents, we understand that every project is different and requires specific experience.

If desired, we'll host a pre-bid meeting with Wayne County and contractors to inform interested bidders of the project's specific details. We'll prepare a presentation and

Garver's Quality Management Plan (QMP)

Garver is committed to instituting our robust quality assurance and quality control (QA/QC) Process that further extends the quality of designs that we provide.

1. Deliverable Creation Design team creates deliverable under engineer of record (EOR) guidance.

2. Preliminary Review EORs review documents. Documents are improved if necessary.

3. QC Review Qualified team of QC reviewers performs thorough review.

4. Feedback Loop Review comments are addressed and documents are updated.

5. QC Review Documents are backchecked by EOR and QC review team. Documents are improved if necessary before final deliverable.

Garver's Cost Accuracy

Garver provides accurate cost estimates throughout the design process. At each phase of design, we provide an Opinion of Probable Construction Cost (OPCC), so you will have up-to-date estimates to properly plan for construction.

The best evidence for Garver's ability to eliminate costs and bid within budget is our past performance. The examples below show our proven history of accurately estimating projects when compared to the final bid amount. In fact, **our current company-wide change order percentage is less than 1%.**

Concord Coddle Creek WTP Improvements

\$2,688,000
Engineer's OPCC

\$2,677,400
Awarded Bid Amount

-0.39%
Award to OPCC

Greenville Water Adkins WTP Tank Replacement

\$1,729,000
Engineer's OPCC

\$1,630,000
Awarded Bid Amount

-5.73%
Award to OPCC

complete agenda, and we'll take meeting notes that will be included in a project addendum to the bidders. **Garver will assist Wayne County with the bid opening, review all bids, and make a recommendation to award a contract to the successful bidder.**

Upon bid acceptance, Garver will issue a set of conformed documents that incorporate any addenda issued during the bid period to reduce potential confusion during construction.



Construction and Startup

We take proactive measures to maintain quality of construction. Garver's construction services team includes more than 50 construction engineers and observers. Our qualified construction services staff will work as part of your team, keeping you informed of the project's progress. In the field, we'll serve as your representative, working with contractors and monitoring construction quality.

From bid tabulation through construction, commissioning, and closeout, we'll provide project

support every step of the way. We understand that construction phase services provide professional management throughout the entire construction project and can achieve multiple goals. Through our construction management experience, our staff understands the requirements and responsibilities of each entity involved in the construction process: the owner, engineer, contractor, and funding agency. **We actively anticipate issues, review plans and construction methods ahead of each phase, and maintain a constant line of communication with all project stakeholders.**

At Garver, we understand that construction observation and administration are professional management processes that can achieve multiple goals for you, such as controlling construction timeframe and costs, promoting job site safety, and monitoring construction quality. From sequencing projects, minimizing community disruption, and solving inevitable construction problems that arise, our staff is committed to establishing strong working relationships with your team and contractors. **Our proven approach to construction project management promotes quality construction and helps minimize challenges that cause budget and schedule overruns.**

Garver's Dedicated Funding Team

Navigating the world of project funding can be challenging at times, especially with all of the growth throughout North Carolina. From grants to loans, to federal, state, or privately-sourced funds, the options available today are abundant. Garver is here to help you identify and pursue the optimal funding opportunities for your projects.

We recognize the importance of developing these opportunities early in the process, to confirm the County is prioritized on the program waiting lists and the identified program requirements are incorporated in the design and construction documents. Early in the project, we will hold a workshop with the County to establish the project budget and identify available funding mechanisms. From there, we'll assist you with applications and tailor our design to maximize the funding potential.

Led by Reed Barton and supported by Tonya White, Garver's funding expert, our team has an exceptional record of helping clients solve the challenge of how to fund capital projects. This includes NCDEQ (SRF, SRP), USDA, WIFIA, FEMA, STAG, and other state and federal programs.



Over the years, Reed has helped his clients secure grants and loans for their critical infrastructure projects. *Please note: projects listed below are Reed's previous firm experience.*



I-85 Sewer Improvements: \$75M through a combination of USDA, SRF, and state appropriations.



Pender County New Water Treatment Plant: \$80M, which included funding from NCDEQ.



Eureka Sewer Replacement: \$15M in grants and loans.

3.

Project Team & Key Principal

Garver pairs familiar leadership you can trust with the technical expertise to address all of your project needs.

Team Organization

Our expert team has experience leading wastewater projects across the Carolinas. With discipline specific leaders in-house, and the resources to address any design project, we will serve as your dedicated on-call partner.



On-Call Manager and Key Principal

Reed Barton, PE, Assoc. DBIA

QA / QC

Harry Elliott, PE

Task Order Managers

Rob McIntyre, PE

Chris Kolkhorst, PE

Jonathan Williams, PE

Kevin Levesque, PE

Technical Leads

Hydraulic Modeling & Master Planning

Ian Toohey, PE

WW Treatment

Greg Knight, CEng

Conveyance/Linear

Chris Kolkhorst, PE

Site/Civil

Chris Gatling, PE

Pump Stations

Tim MacVittie, PE, LEED AP, ENV SP

Structural

Jimmy Tsai, PE

Electrical/I&C

Derek Scott, PE

HVAC

Jack Dorminey, PE

BIM/Design

Rodolfo Fernandez

Architecture

Greg Archer, AIA, LEED AP BD+C

Pipeline Rehab & Trenchless Technology

Maureen Carlin, PhD

Funding & Mergers

Reed Barton, PE

Funding Administration

Tonya White

Permitting

Rob McIntyre, PE

Environmental

Cassie Schmidt

Subconsultants

Geotech and Materials

Froehling and Robertson

Survey

Stratus

Local Support

In addition to the individuals in the org chart, Garver has more than 1,450 experienced professionals nationwide, including 70 located across the Carolinas representing the disciplines below:



8

Process
Mechanical



5

BIM



10

Civil



5

Electrical



6

Structural



35+

Additional
+ Support



Reed Barton, PE, Assoc. DBIA

ON-CALL MANAGER AND KEY PRINCIPAL, FUNDING

Reed is an accomplished environmental engineer with 21 years of experience in the water and wastewater industry. He leads Garver's Water Practice in Central and Eastern NC, serving local municipalities as they plan, design, construct and operate their water and wastewater infrastructure. As a civil and environmental engineer, his experience covers a broad range of topics, including the permitting and design of water & wastewater treatment facilities, collection and distribution system infrastructure, and specialty consulting services, to support project funding and regionalization/mergers for utilities. **Reed has worked shoulder-to-shoulder with Wayne County's staff and leadership for years, supporting 10 projects with the County since 2022. Those task orders are highlighted on page 12.**

License(s)

PE, NC#039912
PE, VA #049992

Education

MS, Environmental Engineering
BS, Integrated Science & Technology

Years of Experience

21

Throughout his career, Reed has provided trusted on-call services to clients across North Carolina, including:

- » City of Greensboro
- » Town of Cary
- » Raleigh Water
- » City of Oxford
- » Wake Co.
- » NCDEQ
- » Town of Clayton
- » Fayetteville PWC
- » Brunswick County
- » New Hanover County
- » City of Goldsboro
- » Wayne Co
- » Town of Eureka
- » Neuse Regional Water and Sewer Authority
- » South Granville Water and Sewer Authority

A trusted advisor to his clients, Reed brings a collaborative, value-driven approach to solving their core challenges. Beyond the technical aspects of projects, he helps clients navigate the nuances of securing state and federal funding, including low-interest loans. **Reed will serve as your primary point of contact under this on-call program, leveraging resources from across Garver's teams to support the County's projects.**

On-Call Professional Engineering Services, City of Greensboro | Greensboro, NC (*previous firm experience*)

As principal-in-charge, Reed has supported more than 30 successful projects for the City of Greensboro since 2013, including planning, design, and construction of improvements for the City's 56 MGD TZO Wastewater Treatment Plant, the 24 MGD Mitchell Water Treatment Plant (WTP), and the 30 MGD Townsend WTP. Additional projects include operations training for utility staff, design and construction admin for collection system rehabilitation and improvements, asset management program implementation, and environmental services to support City owned properties.

I-85 Sewer Improvements Project, South Granville Water and Sewer Authority | Butner, NC (*previous firm experience*)

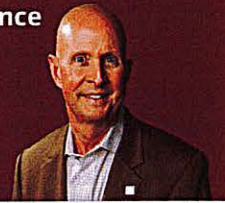
Principal-in-charge for the planning, design, and construction of three separate construction packages to address critical sewer capacity issues that were preventing efficient growth throughout the wastewater collection system. The design included approximately 55,000 linear feet of new gravity sewer and force main infrastructure, as well as three new lift stations and the abandonment of outdated lift stations facilities.

On-Call Professional Engineering Services, City of Oxford | Oxford, NC (*previous firm experience*)

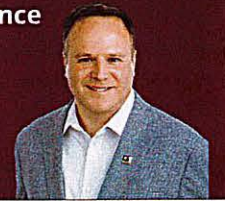
As principal-in-charge, Reed has supported numerous projects at the City of Oxford's Wastewater Treatment Plant since 2020, including a condition assessment of the City's 3.5 MGD WWTP facilities and equipment, SCADA and electrical upgrades, an expansion feasibility study for the WWTP, assistance with multiple permitting challenges and responding to permit agency requests, and two construction projects to upgrade the facilities.

Chris Kolkhorst, PE**TASK ORDER MANAGER, CONVEYANCE/LINEAR****Education:** MS, Environmental Health Engineering | BS, Civil Engineering

With 32 years of experience in treatment and conveyance projects, Chris leads his clients through the unique complexities to find alternatives that best fit their system's individual needs.

Years of Experience
32**License**
PE, NC
#032162**Kevin Levesque, PE****TASK ORDER MANAGER****Education:** ME, Environmental Engineering | BS, Chemical Engineering

Kevin's experience managing the design and field installation of treatment systems and remediation systems helps him guide his teams through the concerns of each individual facility, including environmental concerns.

Years of Experience
23**License**
PE, NC
#050418**Jonathan Williams, PE****TASK ORDER MANAGER****Education:** MS, Civil Engineering | BS, Civil Engineering

Jonathan is an accomplished project leader with over two decades of experience. He successfully drives large projects and teams to deliver on budget, on schedule, and beyond expectations.

Years of Experience
20**License**
PE, NC
#036342**Rob McIntyre, PE****TASK ORDER MANAGER, PERMITTING****Education:** BS, Civil Engineering

Rob specializes in water distribution and conveyance, wastewater collection, and hydraulic analysis and modeling. He brings an in-depth knowledge of funding administration and the NCDEQ permitting process.

Years of Experience
18**License**
PE, NC
#040325**Harry Elliott, PE • QA/QC**

Harry has 20 years of industry experience, specializing in structural design for treatment plants. As Quality Manager for Garver's Water Business Line, he prioritizes minimizing risk for clients for a smooth project delivery. **Education:** BS in Civil Engineering, Structural Engineering | **Years of Experience:** 20 | **License:** PE, NC #055981

**Ian Toohey, PE • HYDRAULIC MODELING & MASTER PLANNING**

Ian helps utilities build comprehensive capital improvement programs, manage growth and development, troubleshoot operational issues, and increase the efficiency of their water distribution and wastewater collection systems. **Education:** MS, Water Resources Engineering; BS, Civil Engineering | **Years of Experience:** 18 | **License:** PE, NC #058881

**Greg Knight, CEng • WASTEWATER TREATMENT**

Greg is a wastewater and biosolids treatment specialist. His work focuses on advanced treatment methods, such as nutrient removal processes, advanced digestion, thermal hydrolysis, and biogas utilization. **Education:** MS, Environmental Engineering; BS, Physics; Btec PD, Water Treatment Management | **Years of Experience:** 25 | **License:** CEng #604414

**Chris Gatling, PE** • SITE/CIVIL

Chris leads our Greenville Water Design Center and has more than 16 years of experience leading civil engineering design to water and wastewater system projects of all sizes. **Education:** ME, Geotechnics; BS, Civil Engineering | **Years of Experience:** 16 | **License:** PE, NC #054674

**Tim MacVittie, PE, LEED AP, ENV SP** • PUMPING

Tim has focused his career on the design and optimization of water, wastewater, and stormwater pumping facilities, ranging from small community pump stations to some of the largest in the country. **Education:** ME, Civil Engineering; BS, Civil Engineering | **Years of Experience:** 19 | **License:** PE, NC #046754; LEED AP #0010223138

**Jimmy Tsai, PE** • STRUCTURAL

Jimmy brings a practical engineering approach to structural design, delivering cost- and schedule-effective solutions built to optimize efficiency. **Education:** MS, Civil Engineering, Transportation; BS, Civil and Environmental Engineering | **Years of Experience:** 14 | **License:** PE, NC #056615

**Derek Scott, PE** • ELECTRICAL/I&C

Derek is a licensed PE in five states with board records in both civil and electrical engineering. He has extensive experience collaborating with plant operators on treatment and conveyance projects. **Education:** BS, Civil Engineering | **Years of Experience:** 23 | **License:** PE, NC #042925

**Jack Dorminey, PE** • HVAC

Jack has provided building mechanical design for wastewater treatment facilities across the region. His experience includes HAP heat load modeling, equipment sizing for heating and cooling loads, and plumbing designs of facility drains and supply water. **Education:** BS, Mechanical Engineering | **Years of Experience:** 7 | **License:** PE, NC #059456

**Rodolfo Fernandez** • BIM/DESIGN

Rodolfo's expertise focuses on 3D structural modeling and detailed project documentation, supporting projects from design development through plan submittal. **Education:** BS, Architecture | **Years of Experience:** 9

**Greg Archer, AIA, LEED AP BD+C** • ARCHITECTURE

Greg is a seasoned architect known for providing sustainable, energy-efficient designs for projects across all project sectors while consistently delivering creative solutions on time and within budget. **Education:** MS, Architecture; BS, Architecture | **Years of Experience:** 36 | **License:** AIA #30097312; LEED AP (BD+C) #10163558

**Maureen Carlin, PhD** • PIPELINE REHAB & TRENCHLESS TECHNOLOGY

As Garver's trenchless pipeline and tunneling national practice leader, Dr. Carlin has worked on large diameter infrastructure projects across the country. **Education:** PhD Civil, Environmental & Sustainable Engineering; BS, Architectural & Civil Engineering | **Years of Experience:** 24

**Tonya White** • FUNDING ADMINISTRATION

Tonya's funding acumen and expertise in application approach strategy has helped clients across Garver's footprint secure federal and state funding for their infrastructure projects. **Education:** BA, Mass Communications and Public Relations | **Years of Experience:** 31

**Cassie Schmidt** • ENVIRONMENTAL

Cassie is an environmental scientist with extensive experience in local, state, and federal environmental regulations and guidelines. She assists clients with environmental-related permitting, assessments, and evaluations for all project needs. **Education:** MS, Biology; BS, Zoology | **Years of Experience:** 14

4.

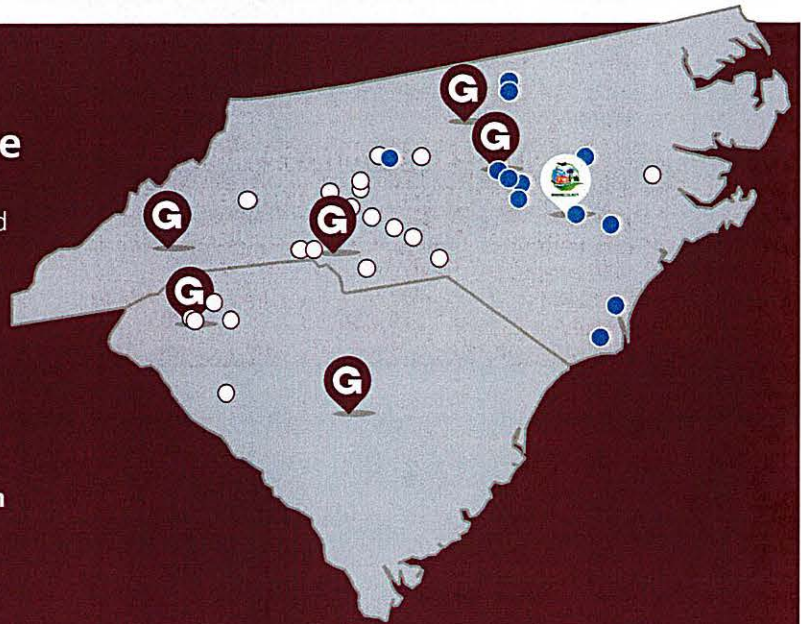
Relevant Experience & Contact Info

Our team's combined experience and proven track record reflect our dedication to quality, technical expertise, and responsiveness.

Strong, Local On-Call Expertise

Garver is committed to the timely completion of projects while minimizing costs, maintaining quality, and providing unmatched service. We understand open communication, a proactive management approach, and itemized schedules are critical steps to managing the tasks that come from on-call contracts.

This can be seen in our responsive support of on-call projects. **Through our on-call experience across the Carolinas and Garver's footprint, we've developed proven processes, procedures, and tools to maintain project schedules and meet project deadlines.**



Garver Office



Current On-Calls and MSAs



Reed's Previous On-Call Experience

Our team's project experience is second to none.

Our team serves as a trusted advisor for clients across the Carolinas supporting a wide range of studies, improvements, and rehabilitation projects for each. We are proud to share that our history of success and collaborative partnership has earned us trusted advisor status with these clients. On the following pages, we have highlighted our recent work with six clients including Reed's previous firm experience with Wayne County.

We will note the services provided to each client by using the key below and icons to the right.



Reed's Relevant Experience
(Prior to Garver)



Garver's Relevant Experience





Wayne County Project Experience

Wayne County, NC (*Reed's previous firm experience*)

Asset Inventory and Assessment Grant Project: Prior to Garver, Reed was the principal-in-charge for an engineering planning study that took assessment of the County's wastewater collection system assets; and created a plan for sustainable maintenance of those assets over a 10-year planning period. From this study, a 10-year plan for capital improvements was prepared; and subsequent sewer improvements projects are currently underway.

New County Jail - Commissioning Support Services: As principal-in-charge, Reed oversaw the work to provide third-party commissioning services as a part of the completion of the new county jail.

New Health Department and Department of Social Services Building - Commissioning Support Services: As principal-in-charge, Reed oversaw the work to provide third-party commissioning services as a part of the completion of the new building to house the Health Department and Department of Social Services.

Manhole Replacement and Relocation Project: As principal-in-charge, Reed assisted with the task order to provide design services for the relocation of a failing manhole and associated gravity sewer.

NCDEQ State Revolving Loan Funding Application for Sewer Improvements: Reed led the preparation of a SRF application to design and construct sewer rehabilitation and improvements on the Genoa Wastewater System. The application was successful, and the improvements project is ongoing.

2025 Genoa Wastewater System Rehabilitation Project: This task order includes the design, permitting, and bidding of pipeline and manhole rehabilitation in selected areas of the Genoa collection system.

Environmental Assessment for the Emergency Management Site: In support of a new emergency management site development project, Reed assisted with completion of an environmental assessment study, which was required by regulatory agencies.

Building Energy Audit: In support of the County's Facilities Department, Reed was the principal-in-charge of a building energy audit, which was a necessary step for funding agencies.

Merger/Regionalization Feasibility Study: Reed was the principal-in-charge and lead engineer in the MRF Study that included two phases (1a and 1b) over the past three years. While contracted through another stakeholder, the County has been a major stakeholder in this project, and was a part of selected Reed as the lead engineer when the project began in 2022. Reed continues to support the County in ongoing talks with the other five municipal stakeholders, as the group works towards building consensus around a unified wastewater utility to serve the greater Wayne County area.



City of Morganton Morganton, NC

Comprehensive Water & Wastewater Master Plan: Garver is developing a comprehensive master plan for the City's wastewater collection, water distribution, and treatment facilities, along with a utility rate study. The master plan includes updated demand and flow projections, new system models, and a 20-year capital improvement strategy.

Lead Service Line Inventory and Investigation: Garver helped the City secure \$450,000 in funding for lead service line identification activities in support of the City's Lead and Copper Rule Revisions compliance efforts.

Catawba River Pollution Control Facility (CRPCF) Task Orders: Garver is reviewing and updating the City's Risk Management and Emergency Response Plans and performing a headworks analysis at the CRPCF.

WWTP Design Flow Capacity Study: Garver identified treatment and flow capacity limitations and prepared a capacity improvements plan for necessary infrastructure upgrades and their applicable costs.

WWTP Disinfection Alternatives Evaluation: Garver conducted a disinfection alternatives study to evaluate the replacement of the existing treatment system (gaseous chlorination) with alternative technologies.

WWTP Copper Corrective Action Plan: Garver identified two industrial customers that were discharging excess copper, causing the City to exceed their permit limits, and prepared a letter to the NCDEQ to explain the corrective measures that were taken.

Raw Water Intake and Pump Station Repair and Rehab: Garver is assisting with the repair and rehabilitation of raw water facilities that were damaged by Hurricane Helene. Garver is also designing improvements for increased resiliency to reduce the risk of catastrophic failure in the future.

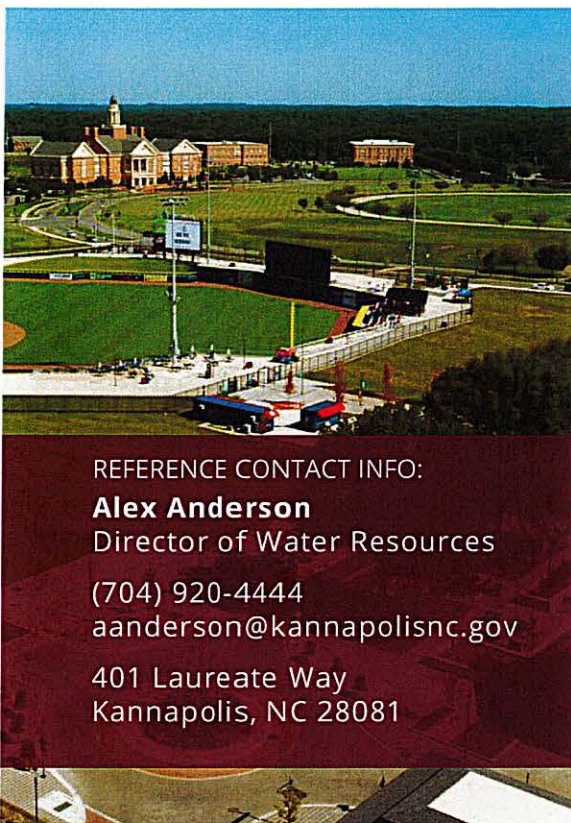
REFERENCE CONTACT INFO:

Brad Boris
(Recently Retired) Director of
Water Resources

(828) 437-8863
bboris@morgantonnc.gov

638 Old Neal Road
Marion, NC 28752





City of Kannapolis Kannapolis, NC

LCRR Compliance Support: Garver is providing Lead and Copper Rule compliance services to promote the long-term security and safety of their systems.

Comprehensive Water and Wastewater Master Plan: Garver is developing a 25-year water and wastewater master plan that includes comprehensive system evaluations, updated hydraulic modeling, and long range flow and demand projections.

Highway 136 Pump Station Decommissioning and Gravity Sewer Connection: Garver provided surveying, detailed design, and permitting services to connect the existing gravity sewer outfall feeding the Highway 136 Pump Station to a newly installed outfall.

NPDES Sewer Collection System Permit Renewal: Garver coordinated with the City to update their necessary documents and submit their renewal application

REFERENCE CONTACT INFO:

Alex Anderson

Director of Water Resources

(704) 920-4444

aanderson@kannapolisnc.gov

401 Laureate Way
Kannapolis, NC 28081



Renewable Water Resources (ReWa) Greenville, SC

Lower Reedy Water Resource Recovery Facility Headworks Repairs: Garver is providing design and construction support services for improvements to the headworks at the Lower Reedy Water Resource Recovery Facility. These improvements include repairs to aged electrical and mechanical equipment.

Gilder Creek Water Resource Recovery Facility Aeration Cycling Study: Garver is providing process modeling services to optimize the aeration cycling at the Gilder Creek Water Resource Recover Facility.

Gilder Creek Water Resource Recovery Facility Switchgear Controls Upgrade: Garver is serving as the Owner's Advisor for the installation of a new switchgear for the facility's generator.

System-wide HVAC Condition Assessment: Garver is performing a system-wide HVAC inspection and assessment for NFPA 820 and NEC compliance. This includes nine water resource recovery facilities and 17 collection pump stations.

REFERENCE CONTACT INFO:

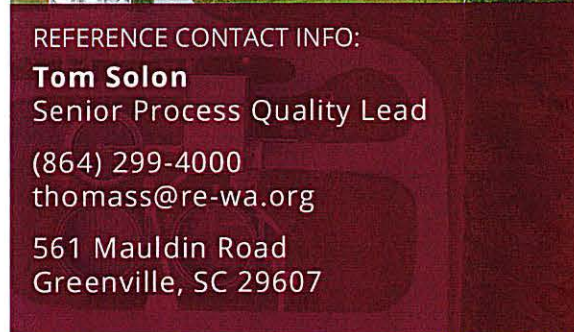
Tom Solon

Senior Process Quality Lead

(864) 299-4000

thomass@re-wa.org

561 Mauldin Road
Greenville, SC 29607





Cumming Utilities Cumming, GA

Bethelview Wastewater Treatment Plant Solids Improvements:

Garver is designing improvements for the Bethelview Wastewater Treatment Plant's solids management facilities. By modernizing this essential infrastructure, the wastewater treatment plant will be able to manage solids effectively as it reaches buildout.

Clay Creek Pump Station Design: Garver performed a sewer capacity evaluation and sanitary sewer routing study for the City of Cumming and is now designing a sewer pump station. Garver is also sizing the City's sewer lines to position for growth through 2060 and providing assistance in the state funding application process.

Greenfield Lanier Wastewater Treatment Plant: Garver is completing a design development report for the proposed Lanier Water Reclamation Recovery Campus. For this report, Garver will perform initial evaluations, determine capital projects necessary and associated cost estimates, and coordinate with Georgia Environmental Protection Division.

REFERENCE CONTACT INFO:

Jon Heard
Director

(770) 781-2020
jon.heard@cityofcumming.net

100 Main Street
Floor 4, Suite 401
Cumming, GA 30040



Beaufort-Jasper Water and Sewer Authority Okatie, SC

On-Call Task Orders: Garver has supported several projects at BJWSA's facilities and linear assets in addition to the capital projects listed below. These include the Chelsea Water Treatment Plant Sedimentation Basin Rehabilitation and Chemical Feed Improvements projects.

Hardeeville Water Reclamation Facility Preliminary Engineering Report, Design, and Construction Phase Services: After completing the first on-call task order, Garver was selected for design and construction support for the expansion to 6 MGD.

Cherry Point Flow Routing Detail Design and Construction Phase Services: Garver is providing design and construction phase services in this two phase project to divert wastewater flows from the Cherry Point Water Reclamation Facility to the Hardeeville Water Reclamation Facility.



REFERENCE CONTACT INFO:

Michael Hansen
Assistant GM

(843) 987-9200
michael.hansen@bjwsa.org

6 Snake Road
Okatie, SC 29909



Additional Project Experience

We know having an experienced team is important to Wayne County. Garver has extensive experience beyond what we've been able to show in the previous pages. This table highlights some of our other recent projects throughout the region.

	WW COLLECTION SYSTEM	WW TREATMENT	CONSTRUCTION ADMIN	ARCHITECTURE	STRUCTURAL	PLUMBING	MECHANICAL	ELECTRICAL
Mallard Creek Wastewater Treatment Plant Non-Potable Water System Improvements // Charlotte, NC	✓	✓			✓	✓	✓	✓
Asheville William DeBruhl Water Treatment Plant Improvements // Asheville, NC			✓	✓	✓	✓	✓	✓
Belmont Raw Water Intake Structural Rehabilitation // Belmont, NC			✓		✓			
Concord Coddle Creek Water Treatment Plant Chlorine Improvements // Concord, NC			✓		✓		✓	✓
Broad River Water Authority Poors Ford Pump Station Design // Rutherfordton, NC				✓	✓		✓	✓
SJWD SC Hwy 29 Booster Pump Station Improvements // Spartanburg, SC			✓	✓	✓		✓	✓
Cheraw New Water Treatment Plant PER // Cheraw, SC					✓	✓	✓	✓
Beaufort-Jasper WSA Hardeeville Wastewater Treatment Plant PER, Design, and CPS // Okatie, SC		✓	✓		✓	✓	✓	✓
Beaufort-Jasper WSA Cherry Point Flow Routing Design and CPS // Okatie, SC	✓		✓					✓
Cumming Bethelview Wastewater Treatment Plant Solids Improvements // Cumming, GA		✓		✓	✓		✓	✓
Coweta County WSA Chattahoochee River Raw Water Supply Ongoing Program // Coweta County, GA			✓	✓	✓	✓	✓	✓
Tuscaloosa Hilliard N Fletcher Water Resource Recovery Facility's Anaerobic Improvements // Tuscaloosa, AL		✓	✓		✓		✓	✓
Tuscumbia Wastewater Treatment Plant Process Improvements // Tuscumbia, AL		✓	✓	✓	✓	✓	✓	✓
Huntsville WPC Western Area Wastewater Treatment Plant Expansion // Huntsville, AL		✓	✓		✓		✓	✓
Huntsville WPC I-565 Force Main // Huntsville, AL	✓		✓		✓			✓

Scanned copy: please find original notarized copy included in envelope with submission.

STATE OF NORTH CAROLINA
COUNTY OF WAYNE

AFFIDAVIT of COMPLIANCE
with N.C. E-Verify Statutes

I, Brian Shannon (hereinafter the "Affiant"), duly authorized by and on behalf of
Garver, LLC (hereinafter the "Employer") after being first duly sworn deposes
and says as follows:

1. I am the Vice President (President, Manager, CEO, etc.) of the Employer and possess the full authority to speak for and on behalf of the Employer identified above.
2. Employer understands that "E-Verify" means the federal E-Verify program operated by the United States Dept. of Homeland Security and other federal agencies, or any successor or equivalent program used to verify the work authorization of newly hired employees pursuant to federal law in accordance with NCGS §143-133.3 (c)(2).
3. Employer is a person, business entity, or other organization that transacts business in this State and that employs 25 or more employees in the State. (mark Yes or No)
 - a. YES, or _____
 - b. NO X
4. All subcontractors engaged by or to be engaged by Employer have or will have likewise complied with the provisions of NCGS §143-133.3 (c) (2).
5. Employer shall keep the County informed of any change in its status pursuant to Article 2 of Chapter 64 of the North Carolina General Statutes.

This the 18th day of May, 20 26.



Signature of Affiant

Print or Type Name: Brian Shannon

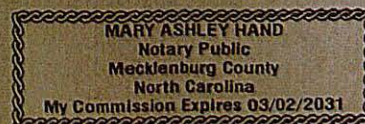
STATE OF NORTH CAROLINA
COUNTY OF mecklenburg

Sworn to and subscribed before me, this the 13th
day of May, 20 26.

Mary Ashley Hand

Notary Public

My commission expires: 03/02/2031



(Affix Official/Notarial Seal)

Scanned copy: please find original notarized copy included in envelope with submission.

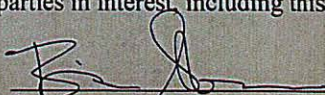
NON-COLLUSION AFFIDAVIT

State of North Carolina

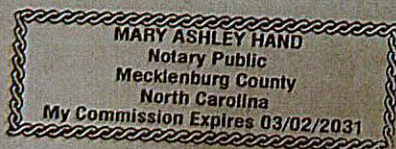
County of Wayne

Brian Shannon (name of individual), being first duly sworn, deposes and says that:

1. He/She is the Vice President (title) of Garver, LLC (company name), the proposer that has submitted the attached proposal;
2. He/She is fully informed respecting the preparation and contents of the attached proposal and of all pertinent circumstances respecting such proposal;
3. Such proposal is genuine and is not a collusive or sham proposal;
4. Neither the said proposer nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly, with any other proposer firm or Person to submit a collusive or sham proposal in connection with the contract for which the attached proposal has been submitted or to refrain from proposing in connection with such contract, or has in any manner, directly or indirectly sought by agreement or collusion of communication or conference with any other proposer, firm or person to fix the price or prices in the attached proposal or of any other proposers, or to fix any overhead, profit or cost element of the proposal price of the proposal of any other proposer or to secure through collusion, conspiracy, connivance or unlawful agreement any advantage against the County of Wayne or any person interested in the proposed contract; and
5. The price or prices quoted in the attached proposal are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the proposer or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.


Signature

Seal



Vice President

Title

Date: 5/18/26

This form must be notarized

SUBSCRIBED AND SWORN TO BEFORE ME,
This 13th day of May, 2026

Notary Public Mary Ashley Hand

My Commission Expires: 03/02/2031

PROPOSER'S CERTIFICATION FORM

To Whom It May Concern:

I have carefully examined the Request for Proposals and any other documents accompanying or make a part of this Request for Proposals.

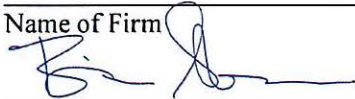
I certify that all information contained in this proposal is truthful to the best of my knowledge and belief. I further certify that I am duly authorized to submit this proposal on behalf of the company and that the company is ready, willing and able to perform the services if awarded the contract.

I further certify, under oath, that this proposal is made without prior understanding, agreement, connection, discussion, or collusion with any other person, firm or corporation submitting a proposal for the same service; no officer employee or agent of the County of Wayne or any other proposer is interested in said proposal; and that the undersigned executed this Proposer's Certification with full knowledge and understanding of the matters therein contained and was duly authorized to do so.

It is distinctly understood that the County reserves the right to reject any or all Proposals.

Garver, LLC

Name of Firm



Authorized Signature

Brian Shannon, Vice President

Printed or Typed Name and Title

2500 Regency Parkway, Office 223

Mailing Address

Cary, NC 27518

City/State/Zip Code

Federal Tax ID: 01-0733400

Phone: 980-467-7230

Fax:

Email: BSShannon@GarverUSA.com

Date: 5/18/26

(SEAL, if Corporation)



Scanned copy: please find original notarized copy included in envelope with submission.

CERTIFICATION REGARDING DEBARMENT AND SUSPENSION

The undersigned applicant certifies to the best of his or her knowledge and belief, that he applicant and its principals:

- (a) are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal Department or agency;
- (b) have not within a 3-year period preceding this proposal been convicted of or had a valid judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- (c) are not presently indicted or otherwise criminally or civilly charged by a governmental entitle (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (b) of this certification; and
- (d) Have not within a 3-year period preceding this application/proposal had one or more public transactions (Federal, State, or local) terminated for cause or default.

Should the applicant not be able to provide this certification, an explanation as to why should be placed after the assurances page in the application package.

The applicant agrees by submitting the proposal that it will include, without modification, the clause titled "Certification Regarding Debarment, Suspension, in eligibility, and Voluntary Exclusion-Lower Tier Covered Transactions" in all lower tier covered transactions (i.e., transactions with sub- grantees and/or contractors) and in all solicitations for lower tier covered transactions.



(Seal if Corporation)

Signature
Vice President

Title
Date: 5/18/26

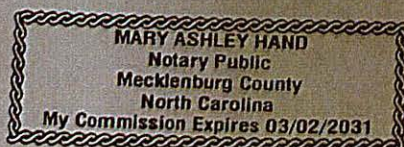
NOTARIZE

SUBSCRIBED AND SWORN TO BEFORE ME,

This 13th day of May, 2026

NOTARY PUBLIC Mary Ashley Hand

My Commission Expires: 03/02/2031



CERTIFICATION REGARDING LOBBYING

"Byrd Anti-Lobbying Amendment, 31 U.S.C. § 1352 (as amended)"

This certification requirement applies to all FEMA grant and cooperative agreement programs. Contractors that apply or bid for an award of \$100,000 or more shall file the required certification required by 49 CFR Part 20, "New Restrictions on Lobbying." Each tier certifies to the tier above that it will not and has not used federally appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Each tier shall also disclose the name of any registrant under the Lobby Disclosure Act of 1995 who has made lobbying contacts on its behalf with non-federal funds with respect to that federal contract, grant or award covered by 31 U.S.C. 1352. Such disclosures are forwarded from tier to tier up to the County.

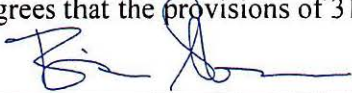
The offeror, by signing its offer, hereby certifies, to the best of his or her knowledge and belief that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form- LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
3. The undersigned shall require that the language of this certification be included in the award documents for all sub awards at all tiers (including subcontracts, sub grants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31,

U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Contractor, Garver, LLC, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. § 3801 et seq., apply to this certification and disclosure, if any.

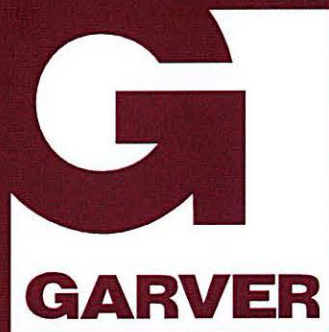


Signature of Contractor's Authorized Official

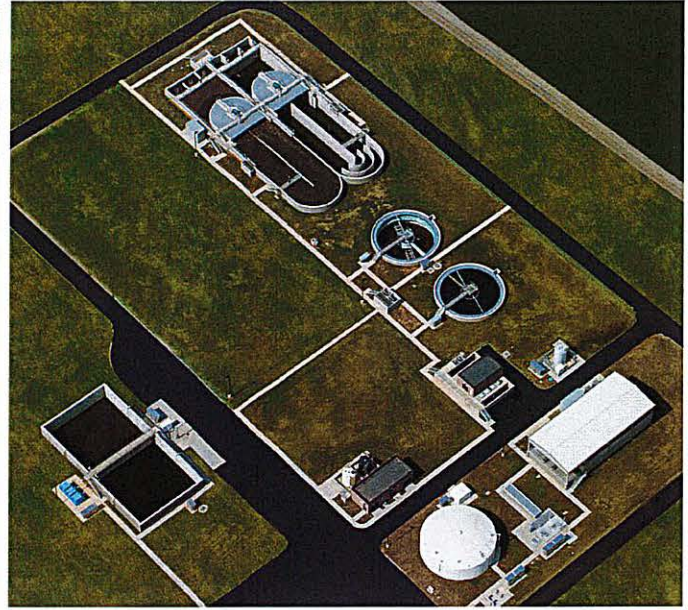
Brian Shannon, Vice President

Printed Name & Title of Contractor's
Authorized Official

Date: 5/18/26



Garver, LLC
2500 Regency Parkway, Office 223
Cary, NC 27518
www.GarverUSA.com



Wayne County

RFQ-2026-PROFESSIONAL ENGINEERING ON CALL SERVICES

MONDAY, MAY 18, 2026



WAYNECOUNTY
NORTH CAROLINA

Wooten

Letter of Interest



May 18, 2026

Mandy Trujillo, Purchasing Manager
Wayne County
224-226 East Walnut Street, 4th Floor Room 480
Goldsboro, NC 27530



Dear Ms. Trujillo:

We recognize that Wayne County must maintain reliable public infrastructure while responding to the evolving needs of its residents, businesses, institutions, and communities. From wastewater collection and treatment to stormwater management, facility support, and construction administration, the County's infrastructure needs require engineering partners who are responsive, practical, and capable of supporting both planned improvements and time-sensitive assignments.

The Wooten Company understands that the County is seeking qualified firms to provide on-call, as-needed professional services across multiple engineering disciplines, and that firms may be selected for more than one project category. We are submitting qualifications for the following project types:

- **Type 1: Wastewater Collection System Projects**
- **Type 2: Wastewater Treatment Projects**
- **Type 3: Stormwater Projects**

Several strengths distinguish our team:

We understand on-call delivery. Wooten provides on-call and general consulting engineering services for more than 60 public entities statewide, including Apex, Raleigh Water, Winterville, Grifton, Pamlico County, Edgecombe County, and Kinston. On-call success requires clear communication, quick task-order scoping, realistic schedules, budget awareness, and the flexibility to address projects of varying size and urgency.

We know eastern North Carolina and Wayne County. Wooten has invested in relationships across eastern North Carolina for decades. Our experience with utility, stormwater, and public infrastructure projects in and around Wayne County gives us a practical understanding of regional conditions, agency expectations, constructability considerations, and the importance of designing improvements that are fundable, maintainable, and responsive to local needs.

We bring a local and accessible team. With our headquarters in Raleigh and regional office in Greenville, Wooten is well positioned to serve Wayne County. Our proposed team includes staff with direct regional experience designing and administering public infrastructure projects in the region.

We offer depth, redundancy, and responsiveness. Wayne County needs an on-call partner that can respond quickly without sacrificing quality. Wooten's team includes professional engineers, surveyors, designers, construction administrators, resident project representatives, GIS and modeling staff, and

- **Type 6: Construction Administration, Architecture, Structural, Plumbing, Mechanical, and Electrical Projects**

specialty support personnel. This depth allows us to assign the right resources to each task while maintaining continuity, accountability, and schedule control.

We provide continuity from planning through construction. Our team can assist Wayne County with early project definition, field investigation, modeling, alternatives evaluation, design, permitting, funding support, bidding, construction administration, observation, pay application review, and project closeout. This full-service capability is especially valuable for on-call assignments where the County may need anything from a quick technical review to a complete design and construction-phase effort.

Our goal is to continue being a trusted engineering partner to Wayne County by delivering projects that serve the County's long-term infrastructure needs. We appreciate the opportunity to submit our qualifications and look forward to the opportunity to support Wayne County through this important on-call contract.

Best Regards,

The Wooten Company

W. Brian Johnson, PE - Vice President
(919) 828-0531 • bjohnson@thewootencompany.com

Table of Contents



Executive Summary	1
Firm Overview	2
Understanding	3
Technical Approach	4
On Call Task Order Startup Checklist	8
Project Team	9
Capacity, Responsiveness & Schedule	12
Relevant Experience	13
References	16
Forms	Appendix



Executive Summary



A RESPONSIVE ON-CALL PARTNER FOR WAYNE COUNTY

For nearly 90 years, The Wooten Company has served North Carolina municipalities, counties, authorities, and public agencies with practical engineering solutions grounded in responsiveness, technical quality, and long-term client relationships. A North Carolina founded engineering firm, Wooten understands that County-scale infrastructure requires more than design expertise. It requires local knowledge, funding awareness, constructability, and the ability to help public staff move projects from need identification to implementation.

Wooten is familiar with the infrastructure priorities of eastern North Carolina communities. Our team has supported utility, stormwater, planning, funding, and construction-phase assignments for regional counties and communities including Edgecombe, Nash, Martin, Washington, Lenoir, Pitt, Greene, Beaufort, Carteret, and others. This experience gives us a practical understanding of aging infrastructure, wastewater capacity needs, drainage limitations, permitting requirements, public funding constraints, and the importance of maintaining reliable service during design and construction.

On-call delivery is a core part of how Wooten serves public clients. Company-wide, we currently support more than 60 similar on-call, general engineering, and task-order based agreements across North Carolina. These contracts require the same qualities Wayne County is seeking: quick response, clear communication, accurate scoping, schedule awareness, budget control, and the ability to assign the right technical resources when needs arise.

Our team is directly aligned with Wayne County's requested service categories, including wastewater collection, wastewater treatment planning, stormwater modeling and design, and construction administration. Wooten can assist with field investigations, system evaluations, modeling, rehabilitation planning, permitting, funding support, design, bidding, construction observation, pay application review, change order support, and closeout. This continuity helps reduce handoff risk and provides Wayne County with a dependable partner from early problem definition through final project completion.

WHAT WAYNE COUNTY GETS



RAPID TASK ORDER STARTUP

Quick response, early scoping, and efficient mobilization.



SENIOR-LEVEL TECHNICAL REVIEW

Experienced oversight to improve quality and reduce rework.



FIELD-FIRST DESIGN APPROACH

Solutions grounded in actual site, utility, and constructability conditions.



FUNDING-AWARE PROJECT DELIVERY

Scope, schedule, permitting & documentation aligned with public funding requirements.

In addition to the four areas described above, we also offer Wayne County continuity through bidding, construction observation, pay applications, change management, and closeout. Wooten's regional relationships, on-call experience, and full-service municipal engineering capabilities position our team to serve as a responsive and reliable extension of Wayne County staff.

Firm Overview



The Wooten Company is a privately held, multi-disciplinary firm with 100 employees focused on providing municipal architectural, engineering, and surveying services. Founded in 1936 and incorporated in 1949 in North Carolina, L.E. Wooten and Company (dba The Wooten Company) is now in its 89th year of continuous operation and is licensed by the State of North Carolina to practice engineering and surveying (NC Certificate of Registration F-0115), and architecture (NC Board of Architecture Certificate 50430).

A comprehensive range of capabilities including architecture, environmental engineering, general civil engineering, geomatics, mechanical engineering, electrical engineering, and plumbing engineering affords our clients a singular point of contact and responsibility for a majority of their facility needs, and therefore efficient and reliable solutions that keep the taxpayer front of mind.

SPECIALTIES

- Civil Utility Engineering
- Water & Wastewater Treatment
- Wastewater System Modeling
- Wastewater Collection
- Wastewater Pump Stations
- Construction Administration
- Architectural Services
- Mechanical & HVAC Design
- Electrical Design
- Plumbing System Design
- Water System Modeling
- Water Storage & Distribution
- Pavement Assessment
- Infrastructure Planning
- Preliminary Engineering

CONTACT

Principal-in-Charge
Brian Johnson, PE
 bjohnson@thewootencompany.com
 (919) 828-0531 x865

Project Manager
Will Larsen, PE
 wlarsen@thewootencompany.com
 (252) 757-1096 x229

Hickory

Winston-Salem

Raleigh

Greenville

Wayne County

Wilmington

Columbia

89 Years of Continuous Business Operation

76 Years Incorporated as The Wooten Company

100 Employees Across Six Regional Offices

Wooten



Understanding

UNDERSTANDING OF WAYNE COUNTY'S ON-CALL NEEDS

Wayne County is seeking responsive engineering partners who can support a wide range of infrastructure needs on an as-needed basis. The County's RFQ reflects the practical nature of on-call work: assignments may vary from quick field reviews and technical advisement to full planning, design, permitting, bidding, construction administration, and closeout. Wooten understands that successful on-call service depends on rapid mobilization, clear communication, accurate scoping, and the ability to assign the right technical resources to each task...all areas where Wooten has active contracts and proven experience.

For this RFQ, Wooten is submitting qualifications for **Type 1, Type 2, Type 3, and Type 6**. These categories align directly with Wooten's municipal engineering practice and our experience serving our partners across North Carolina.



WASTEWATER COLLECTION SYSTEM PROJECTS

Understanding of Need: Collection system work requires accurate field data, utility coordination, hydraulic understanding, and practical rehabilitation or extension strategies.

Wooten's Approach: Provide manhole inspections, rim/invert surveys, SSES support, hydraulic modeling, rehabilitation planning, sewer extensions, details, specifications, permitting, bidding, and construction support.



WASTEWATER TREATMENT PROJECTS

Understanding of Need: Treatment projects must balance regulatory compliance, capacity, operator needs, capital cost, life-cycle cost, and future growth.

Wooten's Approach: Assist with facility evaluations, treatment planning, process alternatives, site and permitting support, technology review, funding coordination, cost estimating, and implementation planning.



STORMWATER PROJECTS

Understanding of Need: Stormwater needs in eastern North Carolina often involve flat terrain, groundwater influence, tailwater conditions, aging conveyance systems, property impacts, and maintenance access.

Wooten's Approach: Provide drainage investigations, hydrologic and hydraulic modeling, ditch and conveyance improvements, SCM design, stormwater rehabilitation, floodplain support, permitting, and development review assistance.



CONSTRUCTION ADMINISTRATION • ARCHITECTURE • STRUCTURAL • PM&E

Understanding of Need: Wayne County needs dependable construction-phase support and technical advisement for both Wooten-designed projects and projects designed or administered by others.

Wooten's Approach: Provide general review, construction observation, pay application review, RFI and submittal coordination, change order review, punch lists, closeout documentation, and utilization of Wooten staff with specialty building, structural, mechanical, electrical, and plumbing resources.

Wooten's approach to each task order begins with confirming the County's objective, reviewing available information, identifying schedule and budget constraints, and determining the appropriate level of effort. From there, our team can mobilize field staff, evaluate alternatives, coordinate with regulatory agencies, prepare design documents, assist with bidding, and remain accountable through construction and closeout.

Wayne County needs an on-call partner that is technically capable, responsive, and easy to work with. Wooten is prepared to serve as an extension of County staff by providing timely support, senior-level guidance, field-informed recommendations, funding-aware project delivery, and construction-phase accountability across the County's utility, stormwater, and facility-related assignments.

Technical Approach



ON-CALL TECHNICAL APPROACH DELIVERY MODEL

Wayne County's on-call engineering needs require a consultant that can respond quickly, define assignments clearly, and provide practical technical support across **wastewater collection, wastewater treatment, stormwater, construction administration, and related facility needs**. Wooten understands that on-call assignments vary in size and urgency. Some tasks may require a quick field review, technical memorandum, or review of existing conditions, while others may advance into full design, permitting, bidding, construction administration, inspection, and closeout. Our approach is built around early communication, field-informed recommendations, regulatory awareness, and clear documentation so Wayne County can make timely decisions and move projects forward efficiently.

Step	Approach	Purpose
1. Task Order Intake / Problem Definition	Meet with County staff to confirm project goals, urgency, budget, schedule, funding source, known constraints, existing information, and expectations for deliverables.	Establish a clear scope, avoid unnecessary effort, and align the task with the County's priorities.
2. Field Verification and Data Collection	Conduct site visits, survey, GIS review, record drawing review, utility coordination, permit research, and documentation of existing conditions.	Ground recommendations in actual field conditions and reduce design, permitting, and construction risks.
3. Alternatives / Recommendations	Develop practical alternatives with consideration of cost, schedule, permitting, constructability, operations, maintenance, and long-term service needs.	Help Wayne County select solutions that are technically sound, fundable, and maintainable.
4. Design / Permitting / Agency Coordination	Prepare plans, specifications, calculations, cost estimates, permit applications, and supporting documentation. Coordinate with local, state, and federal agencies as needed.	Advance the selected solution into a complete and approvable project package.
5. Bidding / Procurement Support	Prepare bid documents, respond to bidder questions, issue addenda, review bids, evaluate responsiveness, and provide recommendation of award.	Support a smooth procurement process and reduce bid-phase uncertainty.
6. Construction Administration / Observation / Closeout	Provide submittal review, RFI response, pay application review, resident project representative services, change order support, field observation, punch lists, record drawings, and closeout documentation.	Maintain accountability through construction and help protect the County's investment.

Wooten's services will be structured to provide Wayne County with dependable support across a range of assignments. Our goal is to make on-call assignments easier for Wayne County to initiate, manage, fund, permit, construct, and close out.

TYPE 1 — WASTEWATER COLLECTION SYSTEM PROJECTS

Technical Approach and Typical Scope of Services

Wayne County's wastewater collection system projects may include manhole inspection and survey, collection system modeling and rehabilitation, extensions, standard details and specifications, hydraulic modeling, and other related collection system needs. Wooten's approach to these assignments begins with understanding the County's operational concern, confirming available records, and quickly mobilizing the appropriate field, modeling, design, and construction-phase resources. Because collection system issues are often driven by field conditions, aging infrastructure, I&I, capacity constraints, and constructability limitations, Wooten uses a field-first process to confirm the problem before advancing recommendations or design.

For a typical collection system task order, Wooten would begin with a kickoff meeting with County staff to define the assignment, review available GIS, record drawings, flow data, maintenance history, known problem areas, and planned development impacts. Our team would then develop a focused work plan identifying needed survey, manhole inspections, CCTV coordination, utility locates, easement research, hydraulic modeling, permitting requirements, deliverables, schedule, and County review points as well as the steps to collect this information. Review of the findings by our **NASSCO certified staff members** allows the team to distinguish between structural defects, capacity limitations, I/I sources, maintenance issues, and constraints associated with existing utilities or right-of-way.

Technical Approach



Once the system condition and capacity needs are understood, Wooten can prepare alternatives ranging from targeted manhole rehabilitation to pipe replacement, sewer extension, cured-in-place pipe lining, point repairs, pump station/force main evaluation, or system rerouting. Alternatives are evaluated based on cost, constructability, permitting, easement needs, maintenance impact, schedule, and ability to maintain service during construction. For hydraulic modeling assignments, Wooten can evaluate existing and future flows, identify capacity bottlenecks, test improvement alternatives, and support capital improvement planning.

Typical design-phase services include preparation of plans, profiles, technical specifications, standard details, quantity takeoffs, opinions of probable construction cost, permit applications, easement exhibits, and bid documents. Our Wooten team can also assist Wayne County with agency coordination, funding documentation, bidding, addenda, bid review, and recommendation of award. During construction, our team can provide submittal review, RFI response, pay application review, change order review, field observation, punch lists, record drawings, and closeout support.

Phase	Services
Startup / Scoping	Kickoff meeting, records review, GIS review, task-order scope, schedule, and budget development
Field Investigation	Manhole inspections, rim/invert survey, utility conflict review, condition documentation, CCTV/flow monitoring coordination
Analysis / Planning	Hydraulic modeling, I/I evaluation, rehabilitation prioritization, capacity analysis, alternatives evaluation
Design / Permitting	Plans, profiles, details, specifications, cost estimates, easement support, permit applications
Bidding / Construction	Bid support, submittal/RFI review, pay application review, field observation, change order review, closeout

Wooten’s collection system approach gives Wayne County practical recommendations grounded in actual field conditions, supported by sound engineering analysis, and carried through design and construction with accountability.

TYPE 2 — WASTEWATER TREATMENT PROJECTS

Technical Approach and Typical Scope of Services

Wayne County’s wastewater treatment needs may include treatment plant development and planning, plant location and permitting services, and evaluation of new technology in wastewater treatment processes. Wooten understands that treatment-related assignments require careful coordination among regulatory compliance, capacity, operations, maintenance, cost, future growth, site constraints, and funding eligibility. Our approach focuses on developing practical, operator-informed, and fundable recommendations that help the County make confident decisions before committing to major capital improvements.

For a typical wastewater treatment task order, Wooten would begin by confirming the County’s objective. The assignment may involve evaluating an existing facility, planning for capacity expansion, reviewing process performance, assessing compliance risk, comparing treatment alternatives, supporting permitting, or developing a phased implementation plan. Early work would include coordination with County staff and operators, review of available permits, flow and loading data, discharge monitoring reports, record drawings, equipment information, prior studies, maintenance history, and known operational concerns.

The evaluation phase may include site visits, process observations, condition assessments, hydraulic and treatment capacity review, identification of bottlenecks, and evaluation of current and future regulatory drivers. Wooten can assess treatment process performance, equipment age and reliability, redundancy, resiliency, energy use, operator access, chemical feed systems, solids handling, controls, SCADA, electrical needs, and maintenance limitations. Where future growth or service expansion is a concern, our team can help develop flow and loading projections and evaluate when additional treatment capacity or process upgrades may be required, all with consideration of the County’s location within the Neuse River Basin.

Alternatives development is a critical component of treatment planning. Wooten can compare rehabilitation, expansion, replacement, process modification, technology upgrades, operational improvements, and phased capital improvements. Each alternative should be evaluated not only for technical feasibility, but also for construction cost, life-cycle cost, operational complexity, regulatory risk, permitting path, funding eligibility, schedule, and ability to maintain treatment during construction. For assignments involving new treatment technologies, Wooten’s role is to help the County distinguish between proven, appropriate technologies and solutions that may create unnecessary operational or financial risk.

Technical Approach



Typical design and implementation services may include preliminary engineering reports, technical memoranda, site layouts, process design, hydraulic profiles, permitting support, environmental documentation, construction plans and specifications, opinions of probable construction cost, bidding assistance, and construction administration. Wooten can also support public funding applications, regulatory meetings, grant/loan documentation, and compliance with state or federal funding requirements when applicable.

Phase	Services
Startup / Data Review	Kickoff meeting, permit review, flow/loading data review, operator interviews, records review
Facility Evaluation	Site assessment, process review, capacity evaluation, equipment condition review, compliance risk identification
Alternatives Analysis	Treatment alternatives, technology review, phasing, life-cycle cost, funding and permitting considerations
Design / Permitting	PERs, technical memoranda, plans, specifications, cost estimates, permit applications, agency coordination
Bidding / Construction	Bid support, submittal/RFI review, pay application review, observation, startup coordination, closeout

Wooten's treatment approach helps Wayne County plan improvements that are technically sound, operationally practical, regulatory-compliant, and positioned for successful funding and implementation.

TYPE 3 — STORMWATER PROJECTS

Technical Approach and Typical Scope of Services

Wayne County's stormwater projects may include stormwater conveyance system modeling that considers stormwater and groundwater hydrology, system rehabilitation and capacity improvements, development review and ordinance compliance, stormwater details and specifications, ditch design and maintenance, SCM design, and other stormwater assignments as needed. Wooten understands the stormwater challenges in eastern North Carolina, and the Neuse River Basin.

For a typical stormwater task order, Wooten would begin by defining the drainage concern with County staff. The issue may involve recurring flooding, failing infrastructure, development impacts, ditch maintenance, erosion, undersized conveyance, regulatory compliance, SCM performance, or floodplain considerations. Early work would include reviewing available GIS, drainage complaints, maintenance records, record drawings, topography, rainfall data, soils, FEMA mapping, stream/wetland information, and prior studies.

Field investigation is essential for stormwater work. Wooten can perform site reconnaissance, survey, culvert and pipe inventory, ditch cross-section review, outfall verification, structure condition assessment, erosion documentation, tailwater observation, and identification of maintenance or access constraints. For larger or more complex assignments, our team can prepare hydrologic and hydraulic models to evaluate existing conditions, confirm capacity limitations, assess groundwater or tailwater influence, and test improvement alternatives. Typical design services may include calculations, storm drainage plans, profiles, ditch grading plans, SCM design, erosion and sediment control plans, stream stabilization details, specifications, quantities, opinions of probable construction cost, and permit applications in addition to standard construction administration and funding support services.

A common task in which our Wooten staff provide is assisting within the development/compliance review of plat and construction submittals with stormwater ordinances and regulations. Objective review of submittals prioritizing drainage benefit, property impacts, environmental permitting, constructability, long-term maintenance, cost, public safety, and compatibility with County standards and stormwater regulations provides County staff with assurance that intentional and consistent standards are being upheld.

Phase	Services
Startup / Problem Definition	Drainage concern review, records/GIS review, complaint history, scope and schedule development
Field Investigation	Site reconnaissance, survey, culvert/ditch inventory, outfall verification, erosion and condition documentation
Modeling / Analysis	Hydrologic and hydraulic modeling, capacity evaluation, groundwater/tailwater considerations, floodplain review
Design / Permitting	Drainage plans, ditch design, SCM design, stream stabilization, specifications, cost estimates, permit applications
Bidding / Construction	Bid support, construction observation, pay application review, RFI/change order support, punch list and closeout

Wooten's stormwater approach provides Wayne County with solutions that are technically defensible, constructible, permit-aware, and maintainable by County staff over the long term.

Technical Approach



TYPE 6 — CONSTRUCTION ADMINISTRATION, ARCHITECTURE, STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL

Technical Approach and Typical Scope of Services

Wayne County's Type 6 needs are wide ranging, and Wooten is well positioned to provide these services through our civil, construction administration, architecture, and building systems groups. Having in-house staff in both our Civil, Construction Administration and Building System Groups provide a consistent source for support services including general review and advisement, general construction observation, pay application review, and other related projects as needed. These services are especially important under an on-call contract because the County may need assistance during active construction, technical review of existing facilities, support for projects designed by others, or specialized architectural, structural, mechanical, electrical, and plumbing input. Wooten's approach is built around timely response, clear documentation, practical field support, and accountability from design through closeout.

For construction administration assignments, Wooten begins by confirming the County's expectations, project delivery method, funding requirements, contract documents, schedule, communication protocols, and decision-making authority. If Wooten is continuing from design into construction, our team carries forward the design intent, permit requirements, quantities, and project constraints. If Wooten is supporting a project designed by others or administered by County staff, we first review available plans, specifications, contracts, permits, schedules, and open issues to identify risks and provide immediate value.

Construction administration services may include preconstruction meetings, agenda and minutes, submittal review, shop drawing review, RFI coordination, interpretation of contract documents, change order review, pay application review, progress meeting support, construction schedule monitoring, permit compliance support, funding documentation, and coordination with contractors, testing firms, regulatory agencies, and County staff. Wooten can also provide resident project representative or construction observation services, including daily reports, photo documentation, quantity verification, field issue tracking, utility conflict documentation, and punch list preparation. For architectural, structural, plumbing, mechanical, and electrical support, Wooten can coordinate appropriate specialty resources for County facility-related assignments.

Closeout is a key part of Wooten's Type 6 approach. Our team helps the County confirm that work is complete, deficiencies are resolved, warranties and O&M materials are received, record drawings are prepared, final quantities are verified, permit closeout requirements are addressed, and funding documentation is complete. This level of construction-phase accountability helps protect the County's investment and reduces the administrative burden on County staff.

Phase	Services
Startup / Review	Contract document review, project status review, communication protocol, risk identification
Construction Administration	Meetings, submittals, RFIs, change orders, pay applications, schedule review, permit/funding documentation
Field Observation	Site visits, resident observation, daily reports, photos, quantity verification, utility conflict tracking
Specialty Support	Architectural, structural, plumbing, mechanical, electrical, controls/SCADA, testing/inspection coordination
Closeout	Punch lists, final observation, record drawings, O&M review, warranty documentation, final pay application support

Wooten's Type 6 approach gives Wayne County a dependable construction-phase partner capable of supporting both infrastructure and facility-related needs with timely review, sound technical judgment, and clear documentation.

On-Call Task Order Startup Checklist



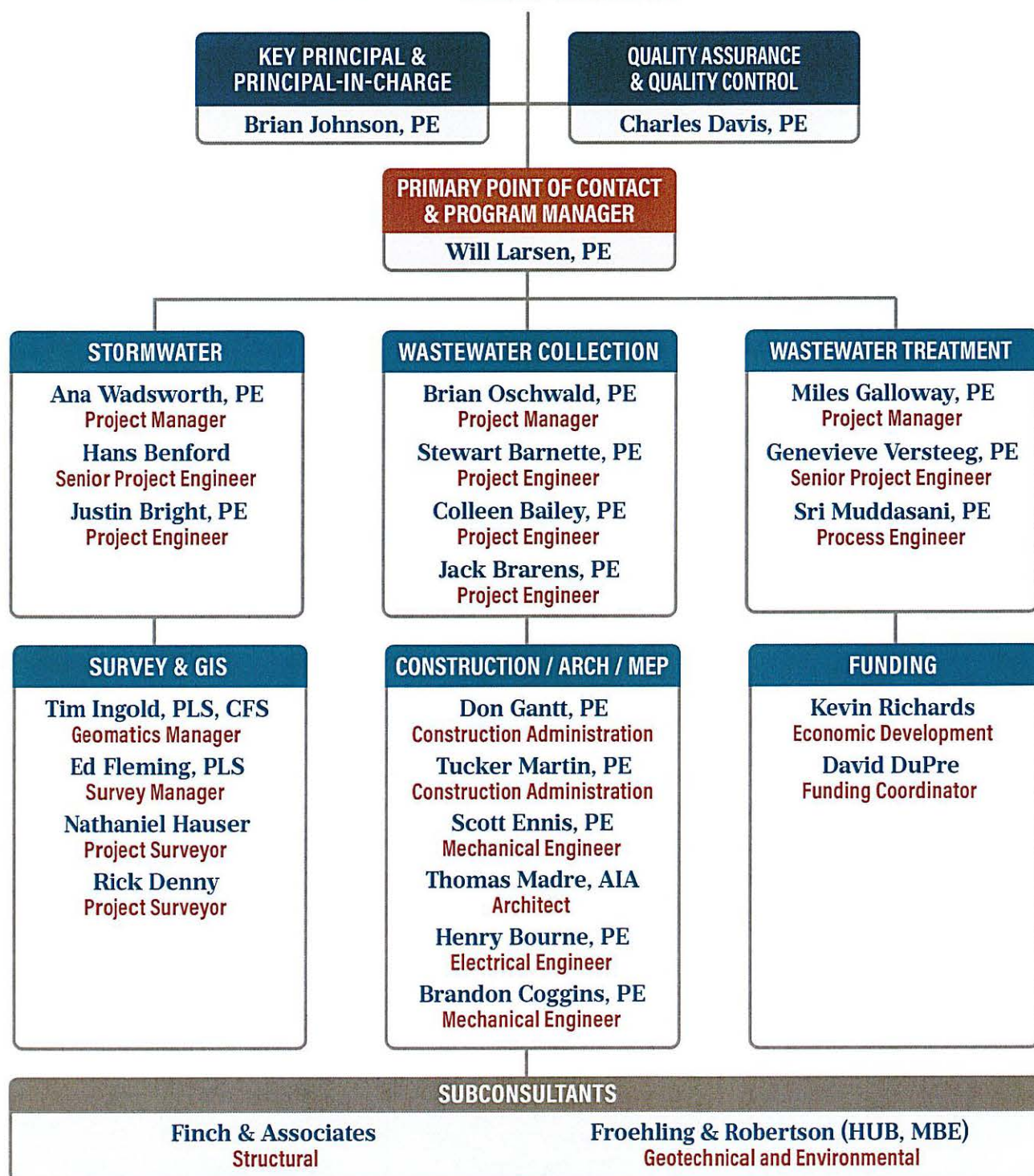
A structured kickoff process helps Wayne County and Wooten align on a defined scope, confirmed priorities, and clarity on next steps to move each task order forward efficiently.

CHECKLIST ITEM	KEY QUESTION / ACTION	WHY IT MATTERS
 County Request	What problem, need, or opportunity is Wayne County asking Wooten to address?	 Defines the purpose of the task order
 Project Type	Does the assignment involve wastewater collection, wastewater treatment, stormwater, construction administration, facility support, or multiple categories?	 Ensures the right technical team is assigned
 Primary County Contact	Identify the County representative responsible for direction, review, and decision-making	 Creates a clear path for communication
 Wooten Lead	Confirm the Project Manager and the discipline leads needed for the assignment	 Establishes accountability from day one
 Project Goals	Define the needed outcome: technical memo, field review, design, permit package, bid documents, construction support, or closeout	 Aligns effort with the County's expectations
 Available Information	Collect available GIS, record drawings, prior reports, maintenance history, permits, complaints, photos, development plans, or construction documents	 Builds the assignment on the best available data
 Field Verification Needed	Determine whether site visits, survey, utility locates, manhole inspection, drainage inventory, treatment review, or construction observation are needed	 Confirms existing conditions and reduces risk
 Funding Source	Identify whether the task is locally funded or tied to grant, loan, or reimbursement requirements	 Helps align documentation and delivery with funding needs
 Permitting/Agency Coordination	Identify required agency coordination such as NCDEQ, DWI, erosion control, 401/404, floodplain, local approvals, or utility owners	 Prevents delays and compliance issues
 Schedule Drivers	Confirm deadlines, funding milestones, permit durations, bidding windows, construction constraints, and seasonal considerations	 Supports a realistic and manageable schedule
 Budget / Level of Effort	Confirm the authorized budget, scope assumptions, exclusions, and potential additional services	 Helps control cost and avoid scope creep
 Deliverables	Define the expected outputs: memo, cost opinion, plans, specifications, permit package, bid documents, review comments, reports, or closeout files	 Clarifies what will be produced and when
 Communication Plan	Set meeting frequency, status updates, review periods, decision points, and emergency contact protocol	 Keeps the task order moving efficiently
 Risks / Constraints	Note utility conflicts, easements, right-of-way, access, environmental impacts, operations, public impacts, or construction sequencing issues	 Helps manage issues before they impact delivery
 Next Action	Confirm the next steps: scope approval, fee, schedule, notice to proceed, and immediate field or data needs	 Creates momentum and a clear path forward

Project Team



WAYNE COUNTY NORTH CAROLINA



* Wooten has included HUB/MBE geotechnical and environmental support through Froehling & Robertson and will continue to identify opportunities for minority business participation as task orders are defined.



Project Team



Will Larsen, PE
Program Manager
GREENVILLE OFFICE

Will Larsen joined The Wooten Company in 2010 and as head of the Greenville Regional Office, works with the Greenville team on projects covering all aspects of municipal infrastructure. His experience with local governments allows his teams greater insight into potential challenges/solutions, improved relationships, and more efficient project design. On a daily basis Will deals with aspects of projects at every stage in the process, from the preliminary stages of design through permitting. Some of his additional responsibilities include reviewing and approving water, wastewater, and stormwater permits for compliance with North Carolina rules and regulations, as well as leveraging his National Association of Sewer Service Companies certifications in the assessment of manholes, laterals and pipelines.

EDUCATION

BS, Civil Engineering, NCSU
Masters of Civil Engineering, NCSU

REGISTRATIONS

Professional Engineer, NC, SC
NASSCO (PACP, MACP, LACP)
Stormwater SCM Inspection & Maintenance

YEARS OF EXPERIENCE: 16



Brian Johnson, PE
Principal-in-Charge
RALEIGH OFFICE

Brian Johnson, PE, is the Director of Engineering Services for The Wooten Company as well as a member of Wooten's Board of Directors. Since 1996 Brian has applied his engineering expertise to provide planning, analysis, and design of many infrastructure projects for local governments throughout North Carolina and South Carolina. He has worked on and managed numerous projects, large and small, for Wake County. Brian's project responsibilities have included preliminary studies, design, permitting, and construction administration, and the details included with each project phase. In addition to his departmental duties, he continues to work as a Senior Project Manager working on projects from inception to completion, working closely with clients to ensure they receive a quality project, on time and within budget. Maintaining client satisfaction and a quality project are his ultimate goals.

EDUCATION

BS, Civil Engineering, NCSU
Master of Civil Engineering, NCSU

REGISTRATIONS

Professional Engineer, NC, SC; LEED AP

YEARS OF EXPERIENCE: 30



Charlie Davis, PE
QA/QC
RALEIGH OFFICE

Since joining Wooten in 1995, Charlie Davis has delivered on an array of municipal plans, collection system projects, and has led the design and construction administration of award-winning water and wastewater treatment plants. Charlie has designed large water and wastewater pump stations, and managed the design of water distribution system and wastewater collection system projects. A Senior Project Manager for civil projects, Charlie supports a team of professionals focused on treatment and pump station designs across the state. Before transitioning to Business Development lead, Charlie was the Environmental Practice lead. He maintains a senior role within the Environmental Practice Group and serves on the Board of Directors.

EDUCATION

BS, Civil Engineering, NCSU
MS, Civil Engineering, NCSU

REGISTRATIONS

Professional Engineer, NC, SC

YEARS OF EXPERIENCE: 33



Brian Oswald, PE
Project Manager - Wastewater Collection
RALEIGH OFFICE

Brian Oswald, PE now leads Wooten's Water Resources practice, starting his professional career with the firm in 2007. Now with more than 20 years of industry experience, Brian has worked with municipal governments and utilities across North Carolina. He is personally vested in managing successful projects on time and within budget, recognizing the equal importance of technical expertise and fostering trusted relationships with clients and colleagues alike. He has led projects for both new and rehabilitated water distribution and transmission systems and wastewater conveyance systems, including collection and interceptor sewer mains, and wastewater pump stations and force mains.

EDUCATION

BS, Civil Engineering, NCSU

REGISTRATIONS

Professional Engineer, NC, SC
NASSCO Certified

YEARS OF EXPERIENCE: 20



Project Team



Miles Galloway, PE
Project Manager - Wastewater Treatment
RALEIGH OFFICE

Miles Galloway is The Wooten Company's Environmental Practice Leader in Raleigh. Since 2011, Miles has applied his educational background and experience to assist clients in the evaluation of water treatment and wastewater treatment processes, planning and evaluation of capital improvement needs, and development of projects from conception to design to address both expansion needs or to meet regulatory compliance. Miles' educational background gives him a unique understanding in the fundamentals of engineering, and biological/chemical processes in the application of engineering process systems.

EDUCATION

BS, Biological Engineering, NCSU

REGISTRATIONS

Professional Engineer, NC, SC

YEARS OF EXPERIENCE: 15



Ana Wadsworth, PE
Project Manager - Stormwater
RALEIGH OFFICE

Ana Wadsworth leads the Site Development Group at The Wooten Company located in Raleigh, North Carolina. Ms. Wadsworth has almost 18 years of experience in the site/land development industry and continues to expand her knowledge for both public and private sector projects in the area. Her background mainly includes project site design, permitting and construction administration for residential, commercial, and industrial projects. Ms. Wadsworth is responsible for site layout, grading and earthwork analysis, erosion and sediment control design, stormwater management, storm drainage and wastewater system design, water distribution, and roadway design.

EDUCATION

BS, Civil Engineering, University of Central Florida

REGISTRATIONS

Professional Engineer, NC

LEED AP

YEARS OF EXPERIENCE: 18



Don Gantt, PE
Project Manager - Construction
RALEIGH OFFICE

Don Gantt has been involved in construction administration of utility projects since 1987. Don has worked on a wide variety of projects including water and wastewater system improvements as well as revitalization projects in conjunction with NCDOT and local municipalities. He has administered construction contracts for water distribution lines, wastewater collection systems and pump stations, and sewer rehabilitations in both urban and rural areas throughout North Carolina. His additional duties include coordinating projects with contractors, reviewing project shop drawings, payment requests, change orders, contract claims analysis, running project meetings, and certifying the project to regulatory agencies as well as record drawings after project completion.

EDUCATION

AAS, Civil Engineering Technology, Central Piedmont Comm. College

BS, Civil Engineering - Construction Option, NCSU

REGISTRATIONS

Professional Engineer, NC, SC

NASSCO (PACP, MACP, LACP)

YEARS OF EXPERIENCE: 39



Scott Ennis, PE
Mechanical Engineer
RALEIGH OFFICE

Scott Ennis is the Director of the Building Systems Group at The Wooten Company. He is experienced in all facets of mechanical, plumbing and HVAC engineering design. He brings experience in test & balance, commissioning, building controls, laboratory ventilation and healthcare systems as well as project management for mechanical, electrical, plumbing and fire protection systems projects. Mr. Ennis has earned Commissioning Authority Certification through ACG to help enhance his knowledge of commissioning. Since beginning his career in the engineering field Mr. Ennis has helped design and/or overseen the installation of systems for many different clients and owners including corporate entities, public schools, universities, medical facilities, data centers, municipal building, LEED certified and WELL certified projects.

EDUCATION

BS, Aerospace Engineering, NCSU

REGISTRATIONS

Professional Engineer, NC, VA

CxA – with ACG (commissioning)

YEARS OF EXPERIENCE: 31

Capacity, Responsiveness & Schedule

W

CAPACITY, RESPONSIVENESS, AND SCHEDULE CONTROL

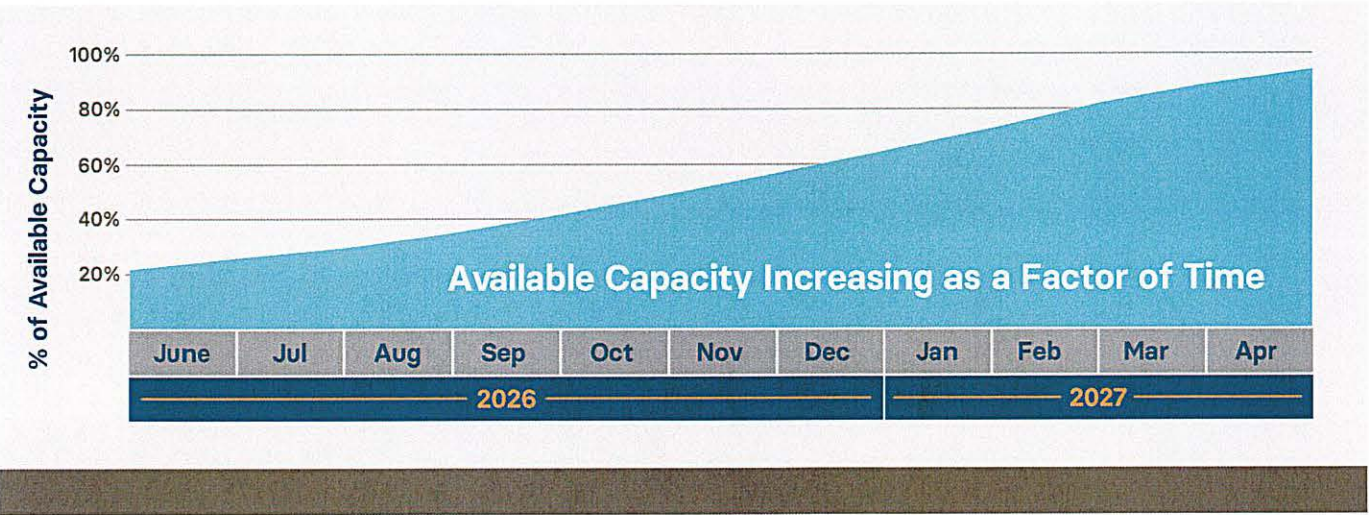
Successful on-call engineering begins with communication. Wooten’s team will collaborate with Wayne County as an extension of County staff, providing clear direction, timely responses, and practical technical support from task initiation through closeout. Because on-call assignments can range from quick technical reviews to full design and construction-phase services, our approach emphasizes early scope definition, realistic scheduling, and proactive budget control. This allows the County to make informed decisions, manage priorities, and move projects forward without unnecessary delay.

Clear and Consistent Communication. At the start of each task order, Wooten’s Project Manager will work with County staff to confirm the purpose of the assignment, expected deliverables, schedule drivers, available budget, funding requirements, known constraints, and decision points. A clear scope must be established early because scope, schedule, and budget are directly connected. Once the scope is defined, the Project Manager will communicate expectations to the appropriate discipline leads and maintain regular contact with the County throughout the assignment. If conditions change or additional services are needed, Wooten will notify Wayne County promptly so decisions can be made before schedule or budget impacts occur.

Staying on Schedule. Wooten understands that responsiveness is one of the most important measures of success under an on-call contract. Our team will establish a task-specific schedule for each assignment, identify critical path items, and track dependencies such as field work, survey, utility coordination, permitting, County review, bidding, and construction milestones. As work progresses, the Project Manager will coordinate with task managers to confirm progress, resolve issues, and adjust internal resources as needed. Wooten’s depth of professional, technical, survey, modeling, permitting, and construction-phase staff allows us to shift resources within the project team and draw from our broader company bench when deadlines or workload demands require additional support.

Controlling the Budget. Wooten has a strong record of completing public infrastructure projects within established budgets by defining scope early, tracking progress closely, and communicating potential changes before they become problems. Our team develops task-order budgets using recent experience with similar assignments, anticipated level of effort, permitting requirements, field needs, and construction-phase expectations. Once a budget is approved, the Project Manager monitors progress against authorized scope and notifies the County of any potential out-of-scope items. This disciplined approach helps prevent scope creep, supports transparent decision-making, and keeps Wayne County informed throughout the project.

Wooten’s approach directly supports the RFQ’s emphasis on on-call engineering services, including task-specific analysis, design, bid document preparation, bid process management, construction administration, inspection, and project administrative services. Our goal is to make each assignment easier for Wayne County to initiate, manage, and complete by providing the right technical resources, clear communication, schedule accountability, and practical solutions.





Relevant Experience

CITY OF RALEIGH

West Neuse Interceptor and Crabtree Creek Rehabilitations

The City of Raleigh identified via previous study that a significant portion of its large diameter gravity sewer interceptors were in need of upsizing in response to growth and also rehabilitation due to age. Several projects were identified and two of the larger projects included the West Neuse Interceptor Rehabilitation and Replacement and the Crabtree Creek Interceptor Rehabilitation. Approximately 19,500 LF of gravity sewer interceptor was identified for rehabilitation during the preliminary engineering phase. The Wooten Company is contracted by Black & Veatch International Company (B&V) to perform the rehabilitation design of the overall rehabilitation and replacement project. Our project met early challenges when pre-CCTV and preliminary design identified in-line bends on the existing 48" gravity sewer, tee manholes that do not allow for CIPP liner insertion, and brick barrel and cone manholes on the existing 66" gravity sewer. We worked with the City, B&V, CIPP manufacturers, and local installers to determine a best fit solution. The project is now in the permitting and easement acquisition phase for over 11,000 LF of 48" CIPP, 500 LF of 54" CIPP, 700 LF of 60" CIPP, 6,600 LF of 66" CIPP, 26 manhole replacements, 3 new manholes, 23 manhole rehabilitations, siphon box rehabilitations, and reinstallation of tributary lines as needed. Unique solutions have been implemented to lessen the bypass pumping burden, permanently remove the gravity sewer in-line bends, and address brick manhole partial replacements to facilitate the CIPP installation. The project team has made a seamless transition to COVID procedures and held all progress meetings virtually without issue. Moving forward public outreach will be performed to discuss the temporary greenway closures and The Wooten Company will provide support for advertisement, bidding and construction phases. The project is on hold as Raleigh Water further assesses sewer treatment needs and impacts of potential flow through the project corridor.

Contact: Janeen Goodwin, PE, Public Utilities Admin Department, janeen.goodwin@raleighnc.gov, 919.996.3494

Similarities: Sewer collection, sewer rehabilitation



CMSD

Wastewater Treatment Plant Improvements

The Contentnea Metropolitan Sewerage District (CMSD) had a mid-1970s plant that served the Towns of Winterville, Ayden, and Grifton. The age of the system had left it struggling with high inflows, overflows and violations after heavy rains. The District was placed under a Consent Order that mandated repairs and upgrades. Additionally, the two-stage activated sludge process was running at the redline and enhanced nutrient removal was needed to meet the effluent limitations in the Neuse River Basin. Wooten helped develop a creative financing plan that packaged grant and loan funds between the District and its three member towns to pay for the improvements. Phase 1 included a new headworks with mechanical screen and screenings compactor, vortex grit removal and Parshall Flume, lift pump station, deep bed denitrification, UV disinfection, post aeration tank and outfall to Contentnea Creek. Phase 2 expanded the plant capacity to 3.5 mgd with five-stage biological nutrient removal, activated sludge process, secondary clarifiers, RAS/WAS pump station, sludge dewatering with dual screw presses and modifications to the existing basins for flow equalization and additional sludge stabilization/holding facilities. CMSD is now a leader in the Neuse River Compliance Association with exceptional total nitrogen and total phosphorous discharge concentrations. This project was funded by USDA-RD.



Contact: Chuck Smithwick, District Manager, cmsd100@embargmail.com, 252.524.5584

Similarities: BNR process, renovation of existing units, mechanical screening and compaction, UV disinfection



Relevant Experience

CITY OF GOLDSBORO

Stoney Creek Sewer Outfall Rehabilitation

The Wooten Company was contracted to provide design, technical and CWSRF funding assistance to the City of Goldsboro for the rehabilitation of the Stoney Creek Sewer Outfall to remedy extreme material degradation to existing RCP mains from years of exposure to corrosive gases. The project consisted of using cured-in-place (CIPP) lining to rehabilitate 2,170 LF of 24", 720 LF of 27", 7,590 LF of 42" and 180 LF of 48" gravity mains extending from Stephens Street to Westbrook Road. In addition, the project included the rebuilding and rehabilitation of 40 manholes. Challenges faced and mitigated during the project included providing vehicular access and water availability to the remote project site as well as increased project coordination given the project area's proximity to environmental features and Seymour Johnson Air Force Base. The project was completed in the Spring of 2017.



Contact: Marty Anderson, Director of Engineering, 919.580.4377

Relevance: Sewer condition assessment, rehabilitation, large diameter sewer, DWI funded

TOWN OF TARBORO

Sunset Avenue Road Repairs

During the aftermath and recovery of Hurricane Mathew in October 2016, the Town of Tarboro contacted The Wooten Company to assist the Town with the repair and replacement of a culvert drainage system located along Sunset Avenue in the Town of Tarboro. Damage from the Hurricane destroyed the existing corrugated metal culvert, waterline, sidewalks, roadway and other drainage structures. As part of the culvert analysis, it was determined that this particular culvert serviced a watershed of approximately 2,475 ac and was significantly undersized in its pre-hurricane form. The Wooten Company then provided the design of a new, dual 7'x8' reinforced box culvert system along with technical designs for the waterline, sidewalk, and roadway repairs. The project was completed in 2017.



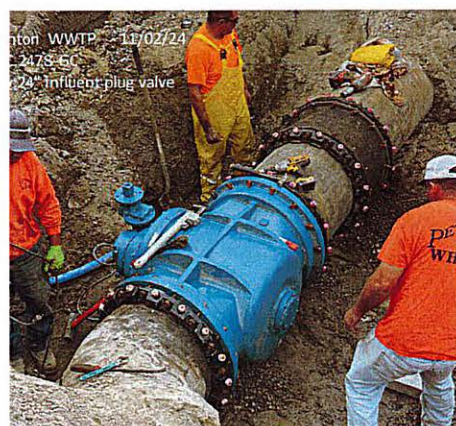
Contact: Jason Nichols, jasonnichols@tarboro-nc.com, 252.641.4229

Similarities: Stormwater conveyance/modeling, roadway/sidewalks, water pipelines

TOWN OF EDENTON

2018 Wastewater Treatment Plant Improvements

Edenton uses an aerated lagoon and sprayfield for treatment of municipal wastewater. The system is permitted for 1.076 MGD. The system is not performing as needed due to buildup of grit and fats, oil, and grease (FOG) within the lagoon, aged equipment within the lagoon and sprayfield, lack of SCADA system, and unaddressed maintenance issues within the sprayfield. The Wooten Company (TWC) was contracted to address issues with the lagoon and sprayfield and is currently in the design phase. TWC is addressing the grit and FOG accumulation in the lagoon with a multiple phased approach. The first phase is to prevent additional grit and FOG with the installation of a headworks system designed to remove grit and FOG. The second phase is to remove grit and FOG through targeted dredging. The third phase is to use aeration technology proven to convert organic sludge to a more bioavailable form for removal by microbes. These approaches will aid in reducing sludge within the lagoon allowing for additional residence time for wastewater along with providing improved treatment. TWC is also upgrading sprayfield pumps and valves, chlorine system, and adding a SCADA system. The sprayfield is being upgraded with SCADA operated zone valves, stormwater drainage improvements, replacement of inoperable sprayheads, and removal of overgrown trees. The trees are being replaced with a grass with commercial value to surrounding horse and cattle farmers. The construction activities commenced in late 2023 and are on-going.



Contact: Corey Gooden, Town Manager, 252.482.4111, corey.gooden@edenton.nc.gov

Similarities: Wastewater design for treatment lagoon, sprayfield, SCADA improvements

Relevant Experience

CITY OF CLINTON

Weeks Street and Beaver Dam Drive Neighborhoods

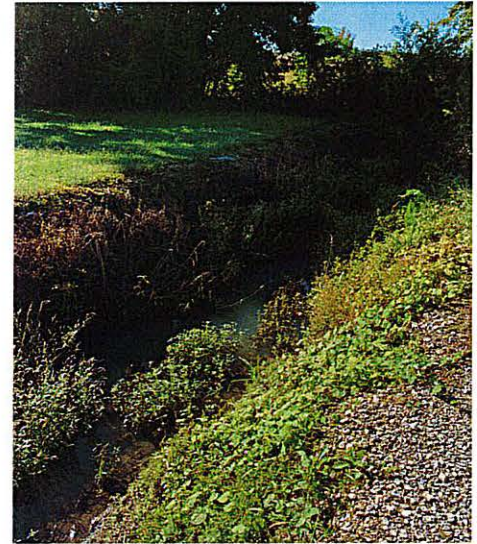
The City of Clinton has engaged The Wooten Company to determine the cause and provide solutions for localized flooding in two separate residential neighborhoods. Both areas, as well as most of the City of Clinton, have minimal topography change, therefore making drainage difficult to capture and manage since everything is flat.

Weeks Street Neighborhood

One of the neighborhoods is located at the intersection of Weeks Street and Hwy 24. This neighborhood has an existing storm drainage system that is undersized. After much analysis and observation, The Wooten Company prepared a conceptual design that would be able to isolate most of the drainage runoff contributing to the flooding and pipe it into a series of culverts away from the neighborhood into an existing farm ditch across Hwy 24.

Beaver Dam Drive Neighborhood

The second neighborhood is located off Beaver Dam Drive. Originally the intent was to manage the runoff into a series of roadside ditches and driveway culverts. At some point in time, most of these roadside ditches have been filled in and replaced with culverts. After modeling the existing system, it was determined that most of the pipes that replaced the roadside ditches are undersized or placed in a reverse direction. Most of this area from Beaver Dam Drive discharges into an existing channel between two residential homes. By rerouting a portion of the upstream drainage, resetting and/or upsizing existing culverts and grading back a series of roadside ditches, the flooding will be alleviated and managed properly in this area.



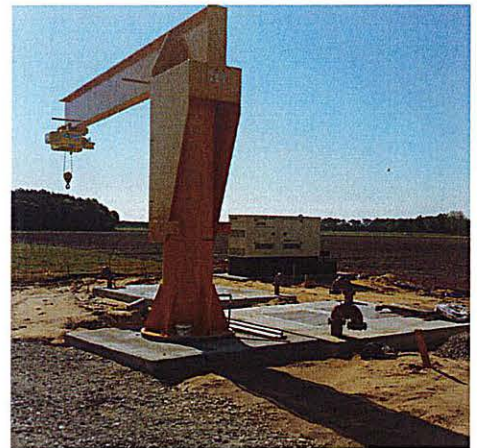
Contact: Chris Medlin, Public Works and Utilities Director, 910.299.4905, cmedlin@cityofclintonnc.com

Similarities: Study, hydraulic modeling, stormwater design, cost estimation/budgeting for future CIP

CITY OF KINSTON

Industrial Park Pump Station and Force Main Design

The Lenoir County Industrial Park is located north of Highway 70 and west of Highway 258 within the city limits of Kinston, NC. The industrial park is served by gravity sewer owned and operated by the City, and wastewater flow from the industrial park reaches the Oliver Glass Lift station in one of two ways: (1) by gravity to the Oliver Glass Lift Station; or (2) pump stations which pump via a common force main to Oliver Glass Lift Station. From there, wastewater flow is pumped by force main to the Neuse River Outfall. The Oliver Glass Lift Station had reached its recommended capacity, and as a result, there was no capacity available at the Oliver Glass Lift Station to accommodate new development in the industrial park. Additional sewer capacity was needed to relieve the load on the Oliver Glass Lift Station and to allow for future development within the Lenoir County Industrial Park. The project included construction of a new 1,090 gpm lift station and force main served by new gravity sewer that serves Smithfield Foods and future industrial users within the park. The lift station utilizes duplex, submersible pumps with variable frequency drives and is designed for a capacity expansion to 1,500 gpm in the future without additional modifications. The gravity sewer consists of 1,476 LF of 18-inch sanitary sewer line from the existing Smithfield Foods site to the new pump station location. The force main is 18,570 LF of 14-inch C905 PVC material. An additional length of approximately 2,200 LF of 4-inch force main was installed to maintain service to the existing Sanderson Farms Hatchery and fire station site.



Contact: Steve Miller, PE, Director of Public Services, 252.939.3285

Similarities: Pump station construction, sequencing of existing flow, system planning for future flows.

Relevant Experience



JONES COUNTY

Trenton EMS and EOC

In September of 2021, Jones County engaged with The Wooten Company to evaluate the condition, adequacy, and long-term use of existing facilities. The previous Jones County EMS and EOC functions were served out of the facility attached to the Jones County Sheriff's Office building. This space was insufficient for the EMS staff as office space, storage, and vehicular parking were in extreme deficit, resulting in response times more than twice the national average. To address this, the Wooten Company is working with the County to renovate the old EMS station into a new Emergency Operations Center (EOC) and create two new EMS Stations on strategically separated sites in the county. This involves renovating approximately 2,500 SF of the existing facility to include the main Emergency Operations room, two offices, two sleeping areas, PPE Supply Room, breakroom, bathrooms, laundry room, and associated circulation. For the new EMS stations, we created appealing solutions that met the County's needs in a single practical design. The buildings include a double wide EMS Bay, bedrooms, office, bathrooms, decontamination room, storage, and dayroom. These new stations will decrease response times, increase services and provide space to meet the demands brought on to the county due to the COVID-19 pandemic.



CONTACT: Kyle Smith - ksmith@jonescountync.gov

Similarities: Architectural and MEP Services

References



Mike Matthews - Assistant County Manager - Edgecombe County

(252) 823-7387 | michaelmatthews@edgecombeco.com
201 Saint Andrew Street, Tarboro, NC 27886

Stephen Penn - Director of Planning & Economic Development - Town of Winterville

(252) 756-2221 | Stephen.Penn@wintervillenc.com
2571 Railroad Street, Winterville, NC 28590

Catherine Grimm - Planning Director - Town of Tarboro

(252) 641-4249 | catherinegrimm@tarboro-nc.com
500 N. Main Street, Tarboro, NC 27886

Chuck Smithwick - District Manager - CMSD

(252) 524-5584 | cmsd100@embarqmail.com
P. O. Box 477, Grifton, NC 28530-0477

Steve Miller, PE - Director of Public Services - City of Kinston

(252) 939-3285 | steve.miller@ci.kinston.nc.us
P. O. Box 339, Kinston, NC 28502-0339

STATE OF NORTH CAROLINA
COUNTY OF WAYNE

AFFIDAVIT of COMPLIANCE
with N.C. E-Verify Statutes

I, W. Brian Johnson, PE (hereinafter the "Affiant"), duly authorized by and on behalf of
The Wooten Company (hereinafter the "Employer") after being first duly sworn deposes
and says as follows:

1. I am the Vice President (President, Manager, CEO, etc.) of the Employer and possess
the full authority to speak for and on behalf of the Employer identified above.
2. Employer understands that "E-Verify" means the federal E-Verify program operated by the
United States Dept. of Homeland Security and other federal agencies, or any successor or
equivalent program used to verify the work authorization of newly hired employees pursuant to
federal law in accordance with NCGS §143-133.3 (c)(2).
3. Employer is a person, business entity, or other organization that transacts business in this State
and that employs 25 or more employees in the State. (mark Yes or No)
a. YES, or X
b. NO _____
4. All subcontractors engaged by or to be engaged by Employer have or will have likewise
complied with the provisions of NCGS §143-133.3 (c) (2).
5. Employer shall keep the County informed of any change in its status pursuant to Article 2 of
Chapter 64 of the North Carolina General Statutes.

This the 15th day of May, 2026.

W. Brian Johnson

Signature of Affiant

Print or Type Name: W. Brian Johnson, PE

STATE OF NORTH CAROLINA
COUNTY OF Wake

Sworn to and subscribed before me, this the 15th
day of May, 2026.

Mary E. Laporte

Notary Public

My commission expires: 5-30-29



(Affix Official/Notarial Seal)

MINORITY BUSINESS PARTICIPATION REQUIREMENTS

Provide with the bid - Under GS 143-128.2(c) the undersigned bidder shall identify on its bid (Identification of Minority Business Participation Form) the minority businesses that it will use on the project with the total dollar value of the bids that will be performed by the minority businesses. Also, list the good faith efforts (Affidavit A) made to solicit minority participation in the bid effort

NOTE: A contractor that performs all of the work with its own workforce may submit an Affidavit (B) to that effect in lieu of Affidavit (A) required above. The MB Participation Form must still be submitted even if there is zero participation.

After the bid opening - The Owner will consider all bids and alternates and determine the lowest responsible, responsive bidder. Upon notification of being the apparent low bidder, the bidder shall then file within 72 hours of the notification of being the apparent lowest bidder, the following:

An Affidavit (C) that includes a description of the portion of work to be executed by minority businesses, expressed as a percentage of the total contract price, which is equal to or more than the 10% goal established. This affidavit shall give rise to the presumption that the bidder has made the required good faith effort and Affidavit D is not necessary;

OR

If less than the 10% goal, Affidavit (D) of its good faith effort to meet the goal shall be provided. The document must include evidence of all good faith efforts that were implemented, including any advertisements, solicitations and other specific actions demonstrating recruitment and selection of minority businesses for participation in the contract

NOTE: Bidders must always submit with their bid the Identification of Minority Business Participation Form listing all MB contractors, vendors, and suppliers that will be used. If there is no MB participation, then enter none or zero on the form. Affidavit A or Affidavit B, as applicable, also must be submitted with the bid. Failure to file a required affidavit or documentation with the bid or after being notified apparent low bidder is grounds for rejection of the bid

Identification of Minority Business Participation

I W. Brian Johnson, PE, The Wooten Company,
(Name of Bidder)

do hereby certify that on this project, we will use the following minority business as construction subcontractors, vendors, suppliers or providers of professional services.

[illegible]

*Minority categories: Black, African American (B), Hispanic (H), Asian American (A) American Indian (I), Female (F) Socially and Economically Disadvantaged (D)

The total value of Minority business contracting will be (\$) TBD.

Date: 5/15/2026 Name of Authorized Officer: W. Brian Johnson, PE

Signature: 

Title: Vice President



State of N.C., County of Wake

Subscribed and sworn to before me this 15 day of May 2026

Notary Public Mary E. Laporte My Commission expires 5-30-29

NON-COLLUSION AFFIDAVIT

State of North Carolina
County of Wayne

W. Brian Johnson, PE (name of individual), being first duly sworn, deposes and says

that:

1. He/She is the Vice President (title) of The Wooten Company (company name), the proposer that has submitted the attached proposal;
2. He/She is fully informed respecting the preparation and contents of the attached proposal and of all pertinent circumstances respecting such proposal;
3. Such proposal is genuine and is not a collusive or sham proposal;
4. Neither the said proposer nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly, with any other proposer firm or Person to submit a collusive or sham proposal in connection with the contract for which the attached proposal has been submitted or to refrain from proposing in connection with such contract, or has in any manner, directly or indirectly sought by agreement or collusion of communication or conference with any other proposer, firm or person to fix the price or prices in the attached proposal or of any other proposers, or to fix any overhead, profit or cost element of the proposal price of the proposal of any other proposer or to secure through collusion, conspiracy, connivance or unlawful agreement any advantage against the County of Wayne or any person interested in the proposed contract; and
5. The price or prices quoted in the attached proposal are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the proposer or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.


Signature

Seal

Vice President
Title
Date: 5/15/2026

This form must be notarized

SUBSCRIBED AND SWORN TO BEFORE ME,
This 15th day of May, 2026
Notary Public Mary E. Laporte
My Commission Expires: 5-30-29



PROPOSER'S CERTIFICATION FORM

To Whom It May Concern:

I have carefully examined the Request for Proposals and any other documents accompanying or make a part of this Request for Proposals.

I certify that all information contained in this proposal is truthful to the best of my knowledge and belief. I further certify that I am duly authorized to submit this proposal on behalf of the company and that the company is ready, willing and able to perform the services if awarded the contract.

I further certify, under oath, that this proposal is made without prior understanding, agreement, connection, discussion, or collusion with any other person, firm or corporation submitting a proposal for the same service; no officer employee or agent of the County of Wayne or any other proposer is interested in said proposal; and that the undersigned executed this Proposer's Certification with full knowledge and understanding of the matters therein contained and was duly authorized to do so.

It is distinctly understood that the County reserves the right to reject any or all Proposals.

The Wooten Company

Name of Firm



Authorized Signature

W. Brian Johnson, PE - Vice President

Printed or Typed Name and Title

120 N. Boylan Avenue

Mailing Address

Raleigh, NC 27603

City/State/Zip Code

Federal Tax ID: 56-0509703

Phone: (919) 828-0531

Fax: (919) 834-3589

Email: bjohnson@thewootencompany.com

Date: 5/15/2026

(SEAL, if Corporation)

CERTIFICATION REGARDING DEBARMENT AND SUSPENSION

The undersigned applicant certifies to the best of his or her knowledge and belief, that he applicant and its principals:

- (a) are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal Department or agency;
- (b) have not within a 3-year period preceding this proposal been convicted of or had a valid judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, Ste, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- (c) are not presently indicted or otherwise criminally or civilly charged by a governmental entitle (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (b) of this certification; and
- (d) Have not within a 3-year period preceding this application/proposal had one or more public transactions (Federal, State, or local) terminated for cause or default.

Should the applicant not be able to provide this certification, an explanation as to why should be placed after the assurances page in the application package.

The applicant agrees by submitting the proposal that it will include, without modification, the clause titled "Certification Regarding Debarment, Suspension, in eligibility, and Voluntary Exclusion-Lower Tier Covered Transactions" in all lower tier covered transactions (i.e., transactions with sub- grantees and/or contractors) and in all solicitations for lower tier covered transactions.



Signature Vice President

Title
Date: 5/15/2026

(Seal if Corporation)

NOTARIZE

SUBSCRIBED AND SWORN TO BEFORE ME,
This 15th day of May, 2026
NOTARY PUBLIC Mary E. Laporte
My Commission Expires: 5-30-29



CERTIFICATION REGARDING LOBBYING

"Byrd Anti-Lobbying Amendment, 31 U.S.C. § 1352 (as amended)"

This certification requirement applies to all FEMA grant and cooperative agreement programs. Contractors that apply or bid for an award of \$100,000 or more shall file the required certification required by 49 CFR Part 20, "New Restrictions on Lobbying." Each tier certifies to the tier above that it will not and has not used federally appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Each tier shall also disclose the name of any registrant under the Lobby Disclosure Act of 1995 who has made lobbying contacts on its behalf with non-federal funds with respect to that federal contract, grant or award covered by 31 U.S.C. 1352. Such disclosures are forwarded from tier to tier up to the County.

The offeror, by signing its offer, hereby certifies, to the best of his or her knowledge and belief that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

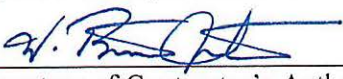
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form- LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

3. The undersigned shall require that the language of this certification be included in the award documents for all sub awards at all tiers (including subcontracts, sub grants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31,

U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Contractor, The Wooten Company, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. § 3801 et seq., apply to this certification and disclosure, if any.


Signature of Contractor's Authorized Official

W. Brian Johnson, PE - Vice President

Printed Name & Title of Contractor's
Authorized Official

Date: 5/15/2026

Statutorily Mandated, Hybrid, and Optional Functions

The purpose of this report is to distinguish between services that Wayne County is legally required to provide under North Carolina law, services that are partially mandated but allow local discretion in funding levels, and services that are authorized by law but not required. The report also identifies the current annual local funding impact associated with these functions.

-

MANDATED COUNTY FUNCTIONS

Required by North Carolina General Statutes and the North Carolina Constitution

These functions must be provided by Wayne County. The Board of Commissioners may determine funding levels necessary to meet statutory requirements, but the County cannot eliminate these functions.

Function	Statutory Authority	Annual County Impact
Sheriff, Jail Operations, Court Security, Detention Services	NC Constitution Art. VII §2; Chapter 162; N.C.G.S. §§162-22, 162-24	\$25.0 million
Court Facilities, Courtrooms, Holding Areas, Courthouse Maintenance and Security	N.C.G.S. §153A-149(b)(1)	\$641,000
Elections Administration	Chapter 163; N.C.G.S. §153A-149(b)(4)	\$992,000
Register of Deeds	Chapter 161	Self-supporting
Property Tax Revaluation	Chapter 105 (Machinery Act)	\$109,000
Department of Social Services (including Medicaid Administration, Child Protective Services, Adult Protective Services, Foster Care)	Chapters 108A and 7B; N.C.G.S. §153A-255	\$9.1 million
Public Health Department (including Communicable Disease Control and Environmental Health Functions)	Chapter 130A	\$4.2 million
Public School Current Expense Funding	Chapter 115C; N.C.G.S. §153A-149(b)(7)	\$29.0 million
School Capital Facilities	Chapter 115C	\$2.5 million

Function	Statutory Authority	Annual County Impact
County Debt Service	N.C.G.S. §153A-149(b)(2)	\$7.8 million
School Debt Service	N.C.G.S. §153A-149(b)(2)	\$4.2 million
County Governing Board (Board of Commissioners)	Chapter 153A, Article 2	\$479,000
County Administration, Finance, Budget, Tax Collection Functions	N.C.G.S. §§153A-81 et seq.; §159-25 et seq.; §153A-149(c)(1)	Included in Administrative Services

Total Identified Annual Cost of Major Mandated Functions

Approximately \$82.9 million annually, including retirement obligations, healthcare costs, and certain administrative support functions.

HYBRID FUNCTIONS

These functions contain mandatory elements, but counties have discretion regarding staffing levels, facilities, service enhancements, and program scope.

Function	Statutory Basis	Annual County Impact
Emergency Medical Services (EMS)	Emergency response obligations and local service responsibilities	\$8.5 million
911 Telecommunications	Supports mandated public safety functions	\$3.2 million
Emergency Management	State emergency management requirements	\$1.5 million
Medical Examiner Support Functions	State medical examiner system with local responsibilities	\$187,500
Animal Control and Shelter Operations	Rabies control and public health responsibilities under state law	\$1.6 million
Law Enforcement Separation Allowance	State-required retirement benefit for eligible officers	\$215,000
Community College Support	Local support requirements under NC Community College System	\$6.7 million
Cooperative Extension	Shared federal, state, and local program	\$1.4 million
Soil and Water Conservation Support	State-authorized conservation districts requiring local support	\$431,000
Veterans Services	State-supported local assistance programs	\$423,000

Total Annual Hybrid Function Cost

Approximately \$23.2 million annually

AUTHORIZED BUT NOT REQUIRED FUNCTIONS

The Board of Commissioners has discretion regarding the continuation, expansion, reduction, or elimination of these services.

Function	Annual County Cost After Revenues
Library	\$3.6 million
Services on Aging	\$1.3 million
Economic Development	\$662,000
Planning	\$685,000
GIS	\$62,000
Maxwell Center	\$1.9 million
Community Development and outside agencies	\$593,625
GWTA	\$149,000

Total Optional Function Cost

Approximately \$8.95 million annually

FUNCTIONS THAT ARE SELF- SUPPORTING OR GENERATE SUFFICIENT REVENUE

The following functions are not generally dependent upon local tax support based on current operations:

Function
Solid Waste
Inspections

Function

Register of Deeds

Sewer Operations

4-H Programs

Wayne Executive Jetport

Key Takeaway for the Board

North Carolina law requires Wayne County to provide core governmental functions including:

- Law enforcement and jail operations
- Court facilities
- Elections
- Register of Deeds
- Property tax administration
- Social Services
- Public Health
- Public School funding
- Debt service
- Basic county administration

These mandated functions account for the overwhelming majority of County expenditures and cannot be eliminated by local policy decisions. The Board has greater discretion over hybrid functions and full discretion over optional functions, which currently represent approximately **\$9 million annually** in County expenditures.

Journal Proof Report



Journal Number: 714 Year: 2026 Period: 11

Description:

Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
Formatted Project String						
BUA	1106110-549100	Dues & Subscriptions	realign the budget to cover			\$600.00
BUA	1106110-531100	Travel-Meals & Lodging	realign the budget to cover		\$600.00	
BUA	1106110-562000	Grant Expenditures	realign the budget to cover			\$4000.00
	E-X2601 -State -Recurring -Lib Mat					
BUA	1106110-562000	Grant Expenditures	realign the budget to cover		\$1500.00	
	E-X2601 -State -Travel -					
BUA	1106110-562000	Grant Expenditures	realign the budget to cover		\$2500.00	
	E-X2601 -State -Recurring -NonCapFF&E					
Journal 2026/11/714				Total	\$4600.00	\$4600.00

Journal Proof Report



Journal Number: 695 Year: 2026 Period: 11

Description:

Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	1315153-522000	Food & Provisions	realign the health Ed Healthy		\$250.00	
BUA	1315153-523100	Program Supplies	realign the health Ed Healthy		\$780.00	
BUA	1315153-526000	Office Supplies	realign the health Ed Healthy		\$170.00	
BUA	1315153-531100	Travel-Meals & Lodging	realign the health Ed Healthy		\$1234.90	
BUA	1315153-539500	Training	realign the health Ed Healthy		\$1370.00	
BUA	1315153-549750	Incentive Payments	realign the health Ed Healthy			\$3804.90
			Journal 2026/11/695	Total	\$3804.90	\$3804.90

Journal Proof Report



Journal Number: 697 Year: 2026 Period: 11 Description: Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	1315124-529100	Data Processing Supplies	realign CMHRP and TB			\$35.00
BUA	1315124-532900	Other Communications	realign CMHRP and TB		\$35.00	
BUA	1315160-529100	Data Processing Supplies	realign CMHRP and TB			\$290.00
BUA	1315160-532900	Other Communications	realign CMHRP and TB		\$290.00	
			Journal 2026/11/697	Total	\$325.00	\$325.00

Journal Proof Report



Journal Number: 698 Year: 2026 Period: 11 Description: Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	1104140-531100	Travel-Meals & Lodging	transfer funds from training t		\$1000.00	
BUA	1104140-539500	Training	transfer funds from training t			\$1000.00
			Journal 2026/11/698	Total	\$1000.00	\$1000.00

Journal Proof Report



Journal Number: 699 Year: 2026 Period: 11 Description: Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	1104310-531100-HnrGd	Travel-Meals & Lodging	realign funds to cover shortfa		\$1155.00	
BUA	1104310-531100	Travel-Meals & Lodging	realign funds to cover shortfa			\$1155.00
			Journal 2026/11/699	Total	\$1155.00	\$1155.00

Journal Proof Report



Journal Number: 700 Year: 2026 Period: 11 Description: Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	1315153-534100	Printing	realign the Health Ed budget		\$1100.00	
BUA	1315153-549750	Incentive Payments	realign the Health Ed budget			\$1100.00
			Journal 2026/11/700	Total	\$1100.00	\$1100.00

Journal Proof Report



Journal Number: 619 Year: 2026 Period: 11 Description: Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	1104140-537000	Advertising			\$1000.00	
BUA	1104140-519000	Professional Services				\$1000.00
			Journal 2026/11/619	Total	\$1000.00	\$1000.00

Journal Proof Report



Journal Number: 620 Year: 2026 Period: 11 Description: Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	1104180-518200	Retirement Contribution			\$1539.51	
BUA	1104180-512100	Salaries and Wages				\$1539.51
Journal 2026/11/620				Total	\$1539.51	\$1539.51

Journal Proof Report



Journal Number: 621 Year: 2026 Period: 11 Description: Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	1104310-551000	Capital Outlay-Equipment			\$494.00	
BUA	1104310-539500	Training				\$494.00
Journal 2026/11/621				Total	\$494.00	\$494.00

Journal Proof Report



Journal Number: 32 Year: 2026 Period: 12 Description: Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	1104310-539500-Dive	Training			\$1.50	
BUA	1104310-535200-Dive	Repairs & Maint-Equipment				\$1.50
Journal 2026/12/32				Total	\$1.50	\$1.50

Journal Proof Report



Journal Number: 33 Year: 2026 Period: 12 Description: Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	1104140-526000	Office Supplies			\$1500.00	
BUA	1104140-519000	Professional Services				\$1500.00
Journal 2026/12/33				Total	\$1500.00	\$1500.00

Journal Proof Report



Journal Number: 34 Year: 2026 Period: 12 Description: Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	1104310-518340	Health Savings Account Contrib			\$250.00	
BUA	1104310-512100	Salaries and Wages				\$250.00
Journal 2026/12/34				Total	\$250.00	\$250.00

Journal Proof Report



Journal Number: 35 Year: 2026 Period: 12 Description: Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	1104330-542016	Expen: Interest			\$2488.88	
BUA	1104330-544000	Service & Maintenance Contract				\$2488.88
Journal 2026/12/35				Total	\$2488.88	\$2488.88

Journal Proof Report



Journal Number: 36 Year: 2026 Period: 12 Description: Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	1265300-531100	Travel-Meals & Lodging				\$500.00
BUA	1265306-531100	Travel-Meals & Lodging			\$500.00	
Journal 2026/12/36				Total	\$500.00	\$500.00

Journal Proof Report



Journal Number: 37 Year: 2026 Period: 12 Description: Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	1104180-543100	Rental of Copier Equipment			\$100.00	
BUA	1104180-526000	Office Supplies				\$100.00
Journal 2026/12/37				Total	\$100.00	\$100.00

Journal Proof Report



Journal Number: 38 Year: 2026 Period: 12

Description:

Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	1104310-539600	Imaging & Shredding			\$800.00	
BUA	1104310-537000	Advertising				\$800.00
			Journal 2026/12/38	Total	\$800.00	\$800.00

Journal Proof Report



Journal Number: 39 Year: 2026 Period: 12

Description:

Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	6676160-529000	Other Supplies & Materials			\$4200.00	
BUA	6676160-537000	Advertising				\$4200.00
Journal 2026/12/39				Total	\$4200.00	\$4200.00

Journal Proof Report



Journal Number: 40 Year: 2026 Period: 12 Description: Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	1107140-519500	Prof Services-Lab Services			\$1500.00	
BUA	1107140-533510	Sewer-Goldsboro WWTP Charges				\$1500.00
Journal 2026/12/40				Total	\$1500.00	\$1500.00

Journal Proof Report



Journal Number: 41 Year: 2026 Period: 12

Description:

Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	1106110-544000	Service & Maintenance Contract				\$299.75
BUA	1106110-543100	Rental of Copier Equipment			\$299.75	
Journal 2026/12/41				Total	\$299.75	\$299.75

Journal Proof Report



Journal Number: 78 Year: 2026 Period: 12 Description: Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	1104310-531300	Client/Inmate Transport Reimb			\$4500.00	
BUA	1104310-526000	Office Supplies				\$2250.00
BUA	1104310-539500	Training				\$2250.00
			Journal 2026/12/78	Total	\$4500.00	\$4500.00

Journal Proof Report



Journal Number: 79 Year: 2026 Period: 12 Description: Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	1104311-519700	Prof Services-Background Check			\$4500.00	
BUA	1104311-519200	Professional Services-Legal				\$2000.00
BUA	1104311-521100	Janitorial Supplies				\$1300.00
BUA	1104311-522100	Kitchen Supplies				\$500.00
BUA	1104311-539500	Training				\$700.00
Journal 2026/12/79				Total	\$4500.00	\$4500.00

Journal Proof Report



Journal Number: 80 Year: 2026 Period: 12 Description: Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	1104180-518200	Retirement Contribution			\$40.35	
BUA	1104180-512100	Salaries and Wages				\$40.35
			Journal 2026/12/80	Total	\$40.35	\$40.35

Journal Proof Report



Journal Number: 81 Year: 2026 Period: 12 Description: Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	1107140-519000	Professional Services			\$4000.00	
BUA	1107140-533510	Sewer-Goldsboro WWTP Charges				\$4000.00
Journal 2026/12/81				Total	\$4000.00	\$4000.00

Journal Proof Report



Journal Number: 82 Year: 2026 Period: 12 Description: Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	1104250-533100	Electricity			\$500.00	
BUA	1104250-595130	Purchase of Inventory-Parts				\$500.00
Journal 2026/12/82				Total	\$500.00	\$500.00

Journal Proof Report



Journal Number: 83 Year: 2026 Period: 12 Description: Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	1104120-522000	Food & Provisions			\$200.00	
BUA	1104930-569900	Appropriations				\$200.00
Journal 2026/12/83				Total	\$200.00	\$200.00

Journal Proof Report



Journal Number: 84 Year: 2026 Period: 12

Description:

Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	1104200-518320	Hospitalization-Retirees			\$2500.00	
BUA	1104200-522000	Food & Provisions				\$2500.00
Journal 2026/12/84				Total	\$2500.00	\$2500.00