DAQC-CI122260001-23
Site ID 12226 (B1)

MEMORANDUM

TO: **FILE – L3 TECHNOLOGIES INC. - Electronic Communications Equipment Manufacturing Plant**

THROUGH: Chad Gigen, Minor Source Compliance Section Manager CG

FROM: Susan Weisenberg, Environmental Scientist SW

DATE: May 30, 2023

SUBJECT: **FULL COMPLIANCE EVALUATION**, Minor, Salt Lake County

INSPECTION DATE:	May 9, 2023
SOURCE LOCATION:	640 North 2200 West Salt Lake City, 84116
DIRECTIONS:	Inspections may be scheduled in advanced as this facility maintains a security protocol as a defense contractor. Access the operations through the security desk located in Building C. Enter the building from 2200 West.
SOURCE CONTACTS:	Daren Koldewyn, Lead, Environmental Health and Safety 801-594-7210
OPERATING STATUS:	Operating normally
PROCESS DESCRIPTION:	L3 Technologies manufactures communication equipment (electronic assembly such as printed circuit boards) for defense contracts. Degreasers are open top degreasers. Parts are placed in holders in the degreaser, and submerged in a Xeroxeral solution cleaning station. The top is closed and the machine is turned on to apply heat and vibration to the parts for cleaning. After this cycle, the top is opened and the parts racks are hung above the solution to dry with the lid closed. After drying, the parts are removed from the machine. Cold cleaning stations have vents to release fumes to the outside air. Each station has a lid to reduce vaporization and evaporative loss.
APPLICABLE REGULATIONS:	Approval Order (AO) DAQE-AN122260020-22, dated September 15, 2022 NSPS (Part 60) IIII : Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, NSPS (Part 60) JJJJ : Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, MACT (Part 63) -HHHHHH : National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, MACT (Part 63) -WWWWWW : National Emission Standards

DAQ-2023-003794

for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations,
MACT (Part 63) -ZZZZ: National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, UAC R307-335 for Degreasing Operations.

SOURCE EVALUATION:

Name of Permittee:	**Permitted Location:**
L3 Technologies, Inc. - Electronic Communications Equipment Manufacturing Plant 640 North 2200 West Salt Lake City, UT 84116	640 North 2200 West Salt Lake City, 84116

SIC Code: 3669: (Communications Equipment, NEC)

Section I: GENERAL PROVISIONS

I.1 All definitions, terms, abbreviations, and references used in this AO conform to those used in the UAC R307 and 40 CFR. Unless noted otherwise, references cited in these AO conditions refer to those rules. [R307-101]

I.2 The limits set forth in this AO shall not be exceeded without prior approval. [R307-401]

I.3 Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be reviewed and approved. [R307-401-1]

I.4 All records referenced in this AO or in other applicable rules, which are required to be kept by the owner/operator, shall be made available to the Director or Director's representative upon request, and the records shall include the two-year period prior to the date of the request. Unless otherwise specified in this AO or in other applicable state and federal rules, records shall be kept for a minimum of two (2) years. [R307-401-8]

I.5 At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this AO, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Director which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded. [R307-401-4]

I.6 The owner/operator shall comply with UAC R307-107. General Requirements: Breakdowns. [R307-107]

I.7 The owner/operator shall comply with UAC R307-150 Series. Emission Inventories. [R307-150]

I.8 The owner/operator shall submit documentation of the status of construction or modification to the Director within 18 months from the date of this AO. This AO may become invalid if construction is not commenced within 18 months from the date of this AO or if construction is discontinued for 18 months or more. To ensure proper credit when notifying the Director, send the documentation to the Director, attn.: NSR Section. [R307-401-18]

Status: In Compliance. Based upon the observations during this inspection and the submitted documents, no Approval Order (AO) limits were exceeded. No modifications were made to the equipment or the described process. Records are maintained as required and were provided upon request. All pollution control processes are operated properly. No applicable breakdowns have occurred. No Emissions Inventories are currently required for this site. A notification of Construction Letter for the new generator was submitted to the DAQ on October 6, 2022. See the attached Letter.

Section II: SPECIAL PROVISIONS

II.A The approved installations shall consist of the following equipment:

II.A.1 **L3 Technologies, Inc.**
A communications equipment manufacturing plant

II.A.2 **Paint Booth Area, Building CA**
A. Machine solvent recycler, vented
B. One (1) paint booth equipped with filters, located in Building C Annex, MACT Subpart HHHHHH equipment
C. Outside Product Painting areas
D. HVLP Spray guns

II.A.3 **Natural Gas-Fired Emergency Generator Engines**

L3 ID #	Description	Building	Federal Standards
FC 1003	Generac 100 kW	CA	MACT ZZZZ equipment
FC 2290	Generac 150 kW	D	NSPS JJJJ/MACT ZZZZ equipment
FC 1002	Generac 100 kW	E	MACT ZZZZ equipment
FC 1208	Generac 100 kW	F	NSPS JJJJ/MACT ZZZZ equipment
FC 1004	Generac 100 kW	Z	MACT ZZZZ equipment

II.A.4 **Diesel-Fired Emergency Generator engines**

L3 ID #	Rated Capacity	Building	Federal Standards
FC 2077	150 kW	X	NSPS IIII/MACT ZZZZ equipment
FC 2221	150 kW	C-Annex	NSPS IIII/MACT ZZZZ equipment
FC 2566	500 kW	O	NSPS IIII/MACT ZZZZ equipment
FC 891	375 kW	F	NSPS IIII/MACT ZZZZ equipment
FC 892	375 kW	F	NSPS IIII/MACT ZZZZ equipment
FC 3722*	755 hp	O	NSPS IIII/MACTZZZZ equipment

*New equipment

II.A.5 **Boilers (All boilers are fueled with natural gas)**
Various small boilers each rated at less than 5 MMBtu/hr (exempt per R307-401-10(1))
Included for information purposes only

II.A.6 **Alodine Process**
One (1) Alodine solution tank located in Building D, MACT Subpart WWWWWW equipment

II.A.7 **Two (2) SO_2 Test Cells**
New equipment
Location: Building O

II.A.8 **One (1) Diesel Fuel Storage Tank**
Capacity: 16 bbls
New equipment

II.A.9 **Miscellaneous Equipment**
A. Miscellaneous small boilers and hot water heaters, welding equipment, area heaters, bench-top soldering, stand-alone soldering machines, cleaning equipment, mobile pressure washers, and mobile generators (14 kW each)
B. Miscellaneous vents and electric ovens

Status: **In Compliance. All equipment was installed and operating as described with the exception of the natural gas-fired emergency generator referenced by II.A.3, FC2290 Generac 150 kW, located in Building D. This generator was down and may be permanently moved out.**

II.B Requirements and Limitations

II.B.1 **Plant-wide Requirements and Limitations.**

II.B.1.a The owner/operator shall not allow visible emissions from any emissions point to exceed 20% opacity except where specified otherwise. [R307-401-8]

Status: In Compliance. All outdoor stacks and vents were observed during the inspection. No visible emissions were detected from any point.

II.B.1.a.1 Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9. [R307-401-8]

Status: In Compliance. The observations were conducted in accordance with Method 9. See the attached VEO form.

II.B.2 **Conditions on Fuel Combustion Equipment.**

II.B.2.a The owner/operator shall not allow visible emissions from the fuel combustion equipment to exceed the following limits:

A. Natural gas/propane combustion - 10% opacity
B. Diesel fuel combustion - 20% opacity. [R307-401-8]

Status: In Compliance. No visible emissions were detected from the boiler stacks or vents. None of the natural gas or diesel fueled emergency engines were operating at the time of this inspection.

II.B.2.b The owner/operator shall not consume more than 31,298 decatherms of natural gas per rolling 12-month period. [R307-401-8]

Status: In Compliance. The submitted 12-month rolling total for the time period of April 2022 through March 2023 was 29503.8 decatherms. See the attached Natural Gas Usage sheet.

II.B.2.b.1 The owner/operator shall:

A. Determine natural gas consumption by monthly billing statements from the utility company

B. Use the monthly billing statements to calculate a new rolling 12-month total by the 20th day of each month using data from the previous 12 months

C. Keep the natural gas consumption records for all periods the plant is in operation. [R307-401-8]

Status: In Compliance. Natural gas usage totals are based on utility invoices. Totals for the previous month are entered into a spreadsheet by the 20th day of each month.

II.B.2.c The owner/operator shall not operate each of the emergency generator engines for more than 100 hours per rolling 12-month period for testing and maintenance operations. [R307-401-8]

Status: In Compliance. Weekly Check Records were provided for each of the emergency generators. The hours operated for the generators ranged from 5.1 hours to 39.6 hours of operation for maintenance and testing for the 12-month time period of April of 2022, through March of 2023.

II.B.2.c.1 The owner/operator shall:

A. Determine hours of operation by monitoring and maintaining an operations log showing the date the generator engine was used, the type of fuel burned, the duration in hours of the engine usage, and the reason for each generator engine usage

B. Use the hours of operation to calculate a new rolling 12-month total by the 20th day of each month using data from the previous 12-months.

C. Keep hours of operation records for all periods the plant is in operation. [R307-401-8]

Status: In Compliance. The weekly Check Records included the ID number for the generator, the date of operation, the duration of time, and the maintenance check for oil levels, coolant, and battery performance. All startups for the engines were for standard maintenance as there were no electrical curtailments for the time period recorded. See the attached emergency generator records.

II.B.2.d The owner/operator shall not test:

A. Each emergency generator engine before 10:00 am or after 4:00 pm each day

B. Each emergency generator engine more than once per week. This does not apply if the engine is retested after it is maintained or repaired.

C. More than one emergency generator engines at a time. [R307-410-4]

Status: In Compliance. The L3 Lead Environmental Health and Safety Manager, Daren Koldewyn, stated that each generator has an installed timer to ensure that the maintenance and testing startup and duration occurs within the limits established by this AO. See the May 10, 2023, email correspondence.

II.B.2.d.1 The owner/operator shall:

A. Determine compliance by monitoring and maintaining an operations log showing the date, the time, and the duration in hours each generator engine was tested

B. Keep the testing records in A for all periods the plant is in operation, and

C. Keep records of retesting associated with engine maintenance/repair. [R307-410-4]

Status: In Compliance. Computerized records are kept for each generator as required for at least 5 years. All records of engine maintenance and repairs will be maintained for the life of the engine.

II.B.2.e The owner/operator shall install a 755-hp emergency engine that is certified to meet a NO_x + NMHC emission rate of 4.8 g/hp-hr. [R307-401-8]

Status: In Compliance. The installed engine meets current EPA requirements for 750 hp engines. Submitted emissions for the engine indicate compliance with the established limit. See the attached correspondence, emission calculations, and Cummins data sheet for this engine.

II.B.2.e.1 The owner/operator shall keep a record of the manufacturer's certification of the emission rate. The record shall be kept for the life of the equipment. [R307-401-8]

Status: In Compliance. L3 will keep a record of the emission calculations and Cummins' certification data sheet for the life of the engine.

II.B.2.f The owner/operator may use propane as an alternative fuel during natural gas curtailment. [R307-401-8]

Status: Not Applicable. Not currently applicable as no natural gas curtailments have occurred.

II.B.3 **Conditions on Diesel Fuel.**

II.B.3.a The owner/operator shall only use diesel fuel (e.g. fuel oil #1, #2, or diesel fuel oil additives) as fuel in each of the diesel-fired generator engines. [R307-401-8]

Status: In Compliance. Only #2 low sulfur diesel fuel is used.

II.B.3.a.1 The owner/operator shall only combust diesel fuel that meets the definition of ultra-low sulfur diesel (ULSD), which has a sulfur content of 15 ppm or less. [R307-401-8]

Status: In Compliance. Only ULSD fuel purchased from Sinclair Pioneer Pipeline is used.

II.B.3.a.2 To demonstrate compliance with the ULSD fuel requirement, the owner/operator shall maintain records of diesel fuel purchase invoices or obtain certification of sulfur content from the diesel fuel supplier. The diesel fuel purchase invoices shall indicate that the diesel fuel meets the ULSD requirements. [R307-203]

Status: In Compliance. See the attached Certificate of Analysis from Pioneer Pipeline for #2 diesel fuel.

II.B.4 **Conditions on Paint Booths, Degreasers and Cleaning Station**

II.B.4.a The owner/operator shall control emissions from the paint spray booths with a set of paint arrestor particulate filters, or equivalent, at all times. All air exiting the booths shall pass through this control system before being vented to the atmosphere (outside building/operation). The filters shall be operated and replaced in accordance with manufacturer's recommendations. Equivalency determinations, when requested by the owner/operator, shall be submitted to the Director for approval. [R307-401-8]

Status: In Compliance. Spray painting occurs in a closed system paint booth with arrestor particulate filters. All air vents through the system before being vented to the atmosphere.

II.B.4.b The owner/operator shall not allow visible emissions from all degreasing stations and painting operations to exceed 5% opacity. [R307-401-8]

Status: In Compliance. No visible emissions were observed exiting the exterior vents from the degreasing or painting operations during this inspection.

II.B.4.c The owner/operator shall not emit more than the following from evaporative sources (painting, printing, coating, and/or cleaning) on site:

9.54 tons per rolling 12-month period of VOCs
1.56 tons per rolling 12-month period of toluene
1.52 tons per rolling 12-month period of xylenes
5.88 tons per rolling 12-month period of all HAPs combined. [R307-401-8]

Status: In Compliance. Rolling 12-month totals for the time period of April 2022, through March of 2023, were as follows:
VOC = 3.230 tons (6,460.25 pounds)
toluene = 0.072 tons (144.73 pounds)
xylenes = 0.227 tons (454.88 pounds)
HAPs = 0.496 tons (992.17 pounds)
See the attached summary table.

II.B.4.c.1 The owner/operator shall calculate a new 12-month total by the 20th day of each month using data from the previous 12 months. The owner/operator shall use a mass-balance method to calculate emissions from evaporative sources. The owner/operator may use the following equations with applicable units to comply with the mass-balance method:

VOCs = [% VOCs by Weight/100] x [Density] x [Volume Consumed]

HAP = [% HAP by Weight/100] x [Density] x [Volume Consumed]. [R307-401-8]

Status: In Compliance. New month totals are calculated by the 20th day of each month. A mass-balance method is employed using the above calculations to determine emissions.

II.B.4.c.2 The owner/operator shall use a mass-balance method to quantify any amount of VOCs and HAPs reclaimed. The owner/operator shall subtract the amount of VOCs and HAPs reclaimed from the quantities calculated above to provide the monthly total emissions of VOCs and HAPs. [R307-401-8]

Status: In Compliance. A mass-balance method is used to quantify the amount of VOCs reclaimed see the attached WASTE SHIPPED summary at the bottom of the attached product spreadsheet.

II.B.4.c.3 The owner/operator shall keep records each month of the following:

A. The name (as per SDS) of the VOC- and HAP-emitting material

B. The maximum percent by weight of VOCs and each HAP in each material used

C. The density of each material used

D. The volume of each VOC- and HAP-emitting material used

E. The amount of VOCs and the amount of each HAP emitted from each material

F. The amount of VOCs and the amount of each HAP reclaimed and/or controlled from each material

G. The total amount of VOCs, the total amount of each HAP, and the total amount of all HAPs combined emitted from all materials (in tons) [R307-401-8]

Status: In Compliance. A product list spreadsheet, including the description, usage, density, and VOC contents were provided. VOC/HAPs emission totals are derived from this spreadsheet. See the attached.

II.B.4.d The VOC-containing materials and VOC-laden rags shall be stored in sealed containers (except when in use). [R307-401-8]

Status: In Compliance. All VOC-containing materials are kept sealed. All VOC contaminated rags are disposed of in sealed bags and transported to Clean Harbors.

II.B.4.e The owner/operator shall comply with the applicable requirements in R307-304, 335, and 350. [R307-304, R307-335, R307-350]

Status: In Compliance. R307-335 is adhered to by maintaining a control mechanism of having freeboard ratio of greater than 0.75 for the vapor degreaser. R307-304-3 and R307-350-3 Department of Defense Contractor exemptions apply to this operation.

Section III: APPLICABLE FEDERAL REQUIREMENTS

In addition to the requirements of this AO, all applicable provisions of the following federal programs have been found to apply to this installation. This AO in no way releases the owner or operator from any liability for compliance with all other applicable federal, state, and local regulations including UAC R307.

NSPS (Part 60) IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Status: In Compliance. The NSPS IIII applicable generators are operated using the required testing and maintenance schedules. All engines were operated under the established hourly limits.

NSPS (Part 60) JJJJ: Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

Status: In Compliance. The remaining NSPS JJJJ engine, FC 1208 Natural gas-fired emergency generator is operated using the required testing and maintenance schedule and is operated under the required hourly limit. Engine FC1208 is included in the weekly check list submission.

MACT (Part 63) -HHHHHH: National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources

Status: In Compliance. The paint booth filters have a manufacturer efficiency rating of 99.43%. All of the spray application guns use a high efficiency HVLP transfer system. The facility maintains a mixing room for the transferring/mixing of coatings, solvents, and thinners. All containers are kept closed except for when adding or removing materials. L3 maintains training certifications for operators. See the attached EPA certification form and Training Roster.

MACT (Part 63) -WWWWWW: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations

Status: In Compliance. L3 employs the "Alodine" chromate conversion coating process consisting of a chemical conversion coating used to protect aluminum from corrosion. The outer portion of the metal surface is chemically transformed into a protective layer. Emission controls are conducted as per 40 CFR 63 standards. See the attached WWWWWW notification form and control check list dated January 30, 2023.

MACT (Part 63) -ZZZZ: National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Status: In Compliance. All emergency generators operated for under the federally established limits for testing and maintenance. See the attached generator check records. Regular maintenance activities are conducted with weekly, quarterly and annual Preventative Maintenance schedules. Each generator is equipped with a non-resettable hour meter. The diesel-fired engines use certified ultra-low sulfur fuel.

AREA SOURCE RULES EVALUATION:

The following Area Source Rules were evaluated during this inspection:
Degreasing and Solvent Cleaning Operations [R307-335]

Status: In Compliance. This facility uses a vapor degreaser that has a control maintaining a freeboard ratio of >0.75.

EMISSION INVENTORY:
No Emission Inventories have yet been required for this site id. The emissions listed below are an estimate of the total potential emissions (PTE) from L3 Technologies, Inc. - Electronic Communications Equipment Manufacturing Plant on the Approval Order (AO) DAQE-AN122260021-23, dated May 22, 2023. (PTE) are supplied for supplemental purposes only.

Criteria Pollutant	PTE tons/yr
CO_2 Equivalent	1996.00
Carbon Monoxide	9.52
Nitrogen Oxides	14.12
Particulate Matter - PM_{10}	1.69
Particulate Matter - $PM_{2.5}$	1.69
Sulfur Oxides	0.52
Volatile Organic Compounds	9.83

Hazardous Air Pollutant	PTE lbs/yr
Chromium Compounds (CAS #CMJ500)	44
Chromium VI (CAS #18540299)	1
Formaldehyde (CAS #50000)	12
Generic HAPs (CAS #GHAPS)	5561
Toluene (CAS #108883)	3110
Xylenes (Isomers and Mixture) (CAS #1330207)	3036

PREVIOUS ENFORCEMENT ACTIONS: No enforcement actions within the past five years.

COMPLIANCE STATUS & RECOMMENDATIONS: L3 Technologies, Inc., site 12226, should be considered to be in compliance with the AO AN122260020-22, dated September 15, 2022, NSPS IIII, JJJJ, MACT ZZZZ, HHHHHH, and WWWWWW, and UAC R307-335, at the time of this inspection.

HPV STATUS: Not Applicable.

RECOMMENDATION FOR NEXT INSPECTION: Inspect as usual using the same targeting frequency. A new Modified AO dated May 22, 2023, was issued after the May 9, 2023, date of this inspection. The new AO increases the natural gas consumption limit. The next inspection should use the AO DAQE-AN122260021-23.

ATTACHMENTS: VEO, site access information, Notification of Emergency Engine installation, natural gas usage summary, emergency engine details (certifications, and check list) diesel fuel certification, VOC/HAPs records (product spreadsheet and 12-month rolling totals), Subpart HHHHHH forms, and Subpart WWWWWW forms.

STATE OF UTAH, DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF AIR QUALITY

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EPA METHOD 9 – VISIBLE EMISSION OBSERVATION FORM

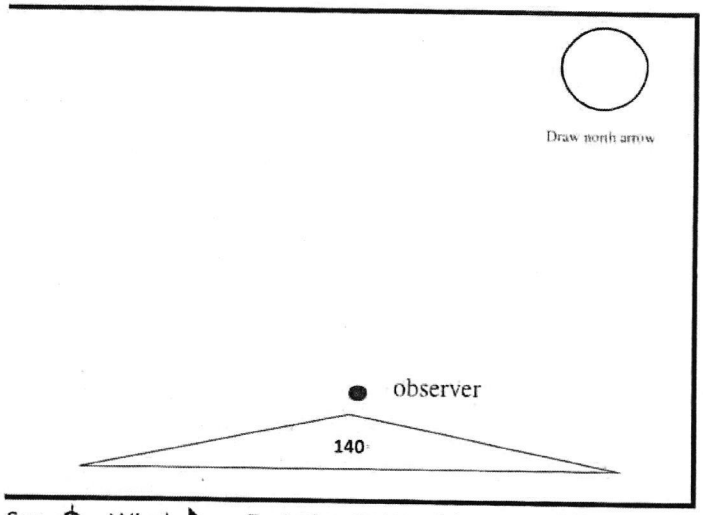
Source Name: L3 TECHNOLOGIES, Inc.
Street Address: 640 N 2200 W
City/County: SLC SL CO.
Phone: 801-594-7210
Site ID: 12226
Facility: electronic assembly circuit boards
Equipment/Process:
Control Equipment: Filters, Natural Gas
Emission Point: Stacks, Vents

OBSERVATION DATE: 5-9-23
Start time: 2:30 Stop time: 2:36

min \ sec	0	15	30	45
1	0			
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				

Sky Conditions: Clear [ ] Partly Cloudy [ ] Overcast [X]
Precipitation: No [X] Yes [ ] _____
Wind: Direction: _____ Speed: _____ mph
Ambient Temp: _____ °F RH: _____ %
Height Relative to Observer: _____
Distance From Observer: _____
Condensed Water Vapor Present: No [ ] Yes [ ]
Attached [ ] Detached [ ]
Length of Condensed Water Vapor Plume: _____
Background: _____

Sketch process unit: indicate observer position relative to source; indicate potential emission points and/or actual emission points.



Sun ⊕ Wind ▶ Emission Point with Plume ◯
Observer Position ✖

Observer's Signature: _____

Distrib: white-file; canary-inspector; pink-owner/operator

COMMENTS:
No Emissions obs. From any Point or Vent

~~X~~ Generator Records showing ~~Time~~ of DAY – ONE ENGINE AT A TIME

I have received a copy of these observations:

SIGNATURE: _____
Printed Name: DAREN KOLDEWYN
Title: LEAD, ENV. HEALTH + SAFETY

Susan Weisenberg <sweisenberg@utah.gov>

RE: Routine inspection May 9 information

1 message

daren.koldewyn@l3harris.com <daren.koldewyn@l3harris.com> Tue, May 9, 2023 at 7:06 AM
To: sweisenberg@utah.gov

Good morning Susan,

I'm looking forward to meeting with you and Jordan this afternoon. I have received clearance through our security department for you and Jordan to enter the facility. The easiest way to enter the facility is go to the Building C west entrance from 2200 West. Once you enter the building, there will be a security officer that will get you checked in and call me to meet you when you are ready. I have included a map of the Building C entrance with this email.

Feel free to call me with any questions or problems. My cell phone number is 801-388-7963.

See you soon,

Daren

From: Susan Weisenberg <sweisenberg@utah.gov>
Sent: Tuesday, April 25, 2023 10:55 AM
To: Koldewyn, Daren (US) - BCS <daren.koldewyn@L3Harris.com>
Subject: [EXTERNAL] Routine inspection May 9 information

WARNING: Email originated from an **EXTERNAL** source. Do NOT click links, open attachments or reply unless you recognize sender and know the content is safe.

As stated during our telephone conversation this morning, we have scheduled a routine inspection for 1:00 p.m. on Tuesday, May 9, 2023. My information is below, the second inspector is Jordan Garahana,

Environmental Scientist II • Division of Air Quality, DEQ AQ Compliance

Department of Environmental Quality

385 271-2871 • Work

L3HARRIS™

UTAH DEPARTMENT OF
ENVIRONMENTAL QUALITY
OCT - 6 2022
DIVISION OF AIR QUALITY

October 06, 2022

Bryce Bird, Director
Utah Division of Air Quality (UDAQ)
Utah Department of Environmental Quality
Attn: NSR Section
195 North 1950 West
P.O. Box 144820
Salt Lake City, Utah 84114-4820

Subject: L3 Technologies, Inc. - Notification of Construction of Emergency Generator Engine

Bryce Bird,

Pursuant to Approval Order DAQE-AN122260020-22, (dated September 15, 2022), Section I.8, L3Harris Technologies (L3Harris) is providing notice of commencement of construction and commissioning of newly authorized equipment at its Salt Lake City facility. This includes the new diesel-fired emergency generator engine (within Condition II.A.4, the engine identified as FC 3722) and new diesel fuel storage tank (per Condition II.A.8).

In addition, the emergency generator engine will be subject to 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ. Per 40 CFR 60.4218 and Table 8 to Subpart IIII, the general notification requirements at 40 CFR 60.7(a)(1) and (a)(3) do not apply.

For purposes of 40 CFR 63 Subpart ZZZZ, the engine meets the criteria of 40 CFR 63.6590(c)(1) and per 40 CFR 63.6590(c), compliance with Subpart ZZZZ is achieved by meeting the requirements of 40 CFR 60 Subpart IIII. Therefore, no further requirements apply for purposes of Subpart ZZZZ.

Should you have any questions, please contact me at (385) 285-5962 or Cynthia.Christenson@L3Harris.com.

Respectfully,

Cynthia B. Christenson

Cynthia Christenson
Senior Specialist, EHS

cc: Brad Theurer, Senior Manager EHS

NATURAL GAS USAGE (Bldgs. C, D, E, F, O, X, Z in Decatherms)

	January	February	March	April	May	June	July	August	September	October	November	December
2021	4076.3	3364	3079.1	2192.4	916	357.6	289.9	383.9	805.3	2527.7	2762.1	5630.4
2022	5293.6	4430.3	3710.2	2719.8	1797.2	877	561.3	842.4	729.4	1574	3587.9	4694.5
2023	4658.3	3659.7	3802.3									

12 Month - Total	29503.8	decatherm
AO Limit	37558.0	decatherm



Susan Weisenberg <sweisenberg@utah.gov>

L3Harris Air Compliance Audit Requested Information

1 message

daren.koldewyn@l3harris.com <daren.koldewyn@l3harris.com> Wed, May 10, 2023 at 1:41 PM
To: sweisenberg@utah.gov
Cc: bradley.theurer@l3harris.com, brett.anderson@l3harris.com

Hi Susan,

I have gathered some information in response to determining the generator operating times as specified in Approval Order (AO) DAQE-AN122260020-22 section II.B.2.d.

According to our facilities group, there isn't an L3Harris standard or workorder other than the AO that specifies the timing of the generator settings for the weekly maintenance operation. It was explained to me that each generator has a timer that is manually set to determine the operation time. Therefore, I asked for some photos of the two Building O diesel generators timer settings. The photos included with this email are of the FC2566 and FC3722 generator timers. One is set at 3:00 PM and the other at 3:30 PM. They run for 15 minutes with a 5 minute cool down before shutting off. The other generators throughout the campus would be set in a similar way; staggered so that they are not operating at the same time.

Please let me know if you have any questions regarding the operation of these generators.

Regards,

Daren Koldewyn

Environmental, Health & Safety

COMMUNICATION SYSTEMS / L3HARRIS TECHNOLOGIES

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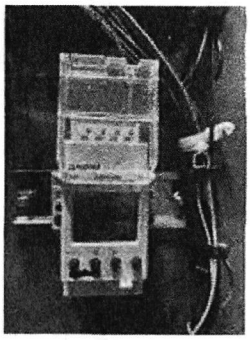
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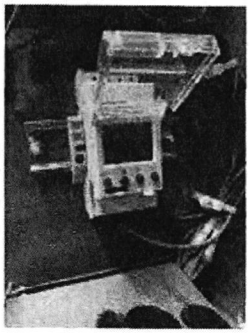
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2 attachments



FC3722 Operation Timmer Setting.jpeg
3760K



FC2566 Operation Timer Setting.jpeg
3786K

Koldewyn, Daren (US) - BCS

From: Christenson, Cynthia (US) - BC
Sent: Wednesday, September 15, 2021 10:15 AM
To: Evan A. Hunter
Subject: New Generator

Hi, Evan – I asked the contractor why a Tier 2 vs. Tier 4 was purchased and this was the response. Do you have a few minutes today or tomorrow to talk through what I need to get for BACT? I just want to ensure I'm understanding correctly the difference between NSPS and UDEQ permitting and what I should ask the contractor for. If I can request something more specific, I don't think there will be an issue getting it.

"The generator meets the current EPA requirements for Tier 2 based on the horse power rating of the generator (755 h.p.) The Tier 4 rating is only required on units less than 75 horse power for Standby Emergency Generators. Tier 2 is required above 750 horse power. The EPA compliance report in included in the submittal on page 24 showing compliance to the Tier 2 requirements."

Cynthia Christenson
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Emergency Generator Weekly Check Record

Tracking # FC1208 Bldg F Life Safety

Inspector	Date	Hour Meter	Oil Level	Coolant	Battery	Notes
Brett	4/28/2022	331.8	x	x	x	weekly
Brett	5/4/2022	331.8	x	x	x	weekly
Brett	5/10/2022	331.8	x	x	x	weekly
Brett	5/16/2022	331.8	x	x	x	weekly
Brett	5/25/2022	331.8	x	x	x	weekly
Brett	5/31/2022	331.8	x	x	x	weekly
Brett	6/6/2022	331.8	x	x	x	weekly
Brett	6/21/2022	331.8	x	x	x	weekly
Brett	6/27/2022	331.8	x	x	x	weekly
Brett	7/5/2022	331.8	x	x	x	weekly
Brett	7/12/2022	332.1	x	x	x	weekly
Brett	7/17/2022	332.4	x	x	x	weekly
Brett	7/24/2022	332.7	x	x	x	weekly
Brett	8/7/2022	333	x	x	x	weekly
Brett	8/14/2022	333.3	x	x	x	weekly
Brett	8/21/2022	333.9	x	x	x	weekly
Brett	8/28/2022	334.2	x	x	x	weekly
Brett	4-Sep	334.5	x	x	x	weekly
Brett	9/11/2022	334.8	x	x	x	weekly
Brett	9/18/2022	335.1	x	x	x	weekly
Brett	9/24/2022	335.1	x	x	x	weekly
Brett	10/2/2022	335.4	x	x	x	weekly
Brett	10/9/2022	335.7	x	x	x	weekly
Brett	16/16/2022	336	x	x	x	weekly
Brett	10/23/2022	336.3	x	x	x	weekly
Brett	10/30/2022	336.6	x	x	x	weekly
Brett	11/7/2022	336.9	x	x	x	weekly
Brett	11/15/2022	336.9	x	x	x	weekly
Brett	11/22/2022	336.9	x	x	x	weekly
Brett	11/29/2022	336.9	x	x	x	weekly
Brett	12/9/2022	336.9	x	x	x	weekly
Brett	12/12/2022	336.9	x	x	x	weekly
Brett	12/20/2022	336.9	x	x	x	weekly
Brett	1/3/2023	336.9	x	x	x	weekly
Brett	1/9/2023	336.9	x	x	x	weekly
Brett	1/17/2023	336.9	x	x	x	weekly
Brett	1/25/2023	336.9	x	x	x	weekly
Brett	1/30/2023	336.9	x	x	x	weekly
Brett	2/7/2023	336.9	x	x	x	weekly
Brett	2/14/2023	336.9	x	x	x	weekly
Brett	2/21/2023	336.9	x	x	x	weekly
Brett	2/27/2023	336.9	x	x	x	weekly
Brett	3/6/2023	336.9	x	x	x	weekly
Brett	3/13/2023	336.9	x	x	x	weekly
Brett	3/20/2023	336.9	x	x	x	weekly - 5.1
Brett	4/4/2023	336.9	x	x	x	weekly
Brett	4/10/2023	336.9	x	x	x	weekly
Brett	4/17/2023	336.9	x	x	x	weekly
Brett	4/25/2023	336.9	x	x	x	weekly

Emergency Generator Weekly Check Record

Tracking # FC891 Bldg F Data Center

Inspector	Date	Hour Meter	Oil Level	Coolant	Battery	Notes
Brett	4/21/2022	451.3	x	x	x	weekly
Brett	5/2/2022	452	x	x	x	weekly
Brett	5/16/2022	452.7	x	x	x	weekly
Brett	5/25/2022	453.4	x	x	x	weekly
Brett	5/31/2022	453.4	x	x	x	weekly
Brett	6/6/2022	453.7	x	x	x	weekly
Brett	6/21/2022	454.4	x	x	x	weekly
Brett	6/27/2022	454.8	x	x	x	weekly
Brett	7/5/2022	455.1	x	x	x	weekly
Brett	7/12/2022	455.4	x	x	x	weekly
Brett	7/17/2022	455.7	x	x	x	weekly
Brett	7/24/2022	456.1	x	x	x	weekly
Brett	7/31/2022	456.5	x	x	x	weekly
Brett	8/7/2022	457	x	x	x	weekly
Brett	8/14/2022	457.5	x	x	x	weekly
Brett	8/21/2022	458	x	x	x	weekly
Brett	8/28/2022	458.5	x	x	x	weekly
Brett	9/4/2022	459.1	x	x	x	weekly
Brett	9/11/2022	459.6	x	x	x	weekly
Brett	9/18/2022	460.1	x	x	x	weekly
Brett	9/25/2022	460.7	x	x	x	weekly
Brett	10/2/2022	461.6	x	x	x	weekly
Brett	10/9/2022	464.3	x	x	x	weekly
Brett	10/16/2022	464.9	x	x	x	weekly
Brett	10/23/2022	465.1	x	x	x	weekly
Brett	10/30/2022	465.9	x	x	x	weekly
Brett	11/7/2022	466.8	x	x	x	weekly
Brett	11/15/2022	467.2	x	x	x	weekly
Brett	11/22/2022	467.5	x	x	x	weekly
Brett	11/29/2022	467.9	x	x	x	weekly
Brett	12/9/2022	468.6	x	x	x	weekly
Brett	12/12/2022	468.6	x	x	x	weekly
Brett	12/20/2022	468.9	x	x	x	weekly
Brett	1/3/2023	469.3	x	x	x	weekly
Brett	1/9/2023	470	x	x	x	weekly
Brett	1/17/2023	470.4	x	x	x	weekly
Brett	1/25/2023	471.1	x	x	x	weekly
Brett	1/30/2023	471.1	x	x	x	weekly
Brett	2/7/2023	471.4	x	x	x	weekly
Brett	2/14/2023	471.8	x	x	x	weekly
Brett	2/21/2023	472.1	x	x	x	weekly
Brett	2/23/2023	472.5	x	x	x	weekly
Brett	3/6/2023	472.8	x	x	x	weekly
Brett	3/13/2023	473.2	x	x	x	weekly
Brett	3/20/2023	473.5	x	x	x	weekly - 22.2
Brett	4/4/2023	473.5	x	x	x	weekly
Brett	4/10/2023	474.6	x	x	x	weekly
Brett	4/17/2023	474.9	x	x	x	weekly
Brett	4/25/2023	475.3	x	x	x	weekly

Emergency Generator Weekly Check Record

Tracking # FC892 Bldg F Data Center

Inspector	Date	Hour Meter	Oil Level	Coolant	Battery	Notes
Brett	4/21/2022	479	x	x	x	weekly
Brett	5/2/2022	479.7	x	x	x	weekly
Brett	5/10/2022	480.4	x	x	x	weekly
Brett	5/16/2022	480.4	x	x	x	weekly
Brett	5/25/2022	481.1	x	x	x	weekly
Brett	5/31/2022	481.3	x	x	x	weekly
Brett	6/6/2022	481.5	x	x	x	weekly
Brett	6/6/2022	482.2	x	x	x	weekly
brett	6/27/2022	482.5	x	x	x	weekly
brett	7/5/2022	483.2	x	x	x	weekly
Brett	7/12/2022	484.6	x	x	x	weekly
Brett	7/17/2022	485.6	x	x	x	weekly
Brett	7/24/2022	486.5	x	x	x	weekly
Brett	8/7/2022	487.5	x	x	x	weekly
Brett	8/14/2022	488.6	x	x	x	weekly
Brett	8/21/2022	489.6	x	x	x	weekly
Brett	8/28/2022	490.2	x	x	x	weekly
Brett	4-Sep	490.7	x	x	x	weekly
Brett	9/11/2022	491.2	x	x	x	weekly
Brett	9/18/2022	491.7	x	x	x	weekly
Brett	9/24/2022	492.2	x	x	x	weekly
Brett	10/2/2022	492.9	x	x	x	weekly
Brett	10/9/2022	493.5	x	x	x	weekly
Brett	16/16/2022	494	x	x	x	weekly
Brett	10/23/2022	494.5	x	x	x	weekly
Brett	10/30/2022	495	x	x	x	weekly
Brett	11/7/2022	495.6	x	x	x	weekly
Brett	11/15/2022	496	x	x	x	weekly
Brett	11/22/2022	496.3	x	x	x	weekly
Brett	11/29/2022	496.7	x	x	x	weekly
Brett	12/9/2022	497	x	x	x	weekly
Brett	12/12/2022	497	x	x	x	weekly
Brett	12/20/2022	497.7	x	x	x	weekly
Brett	1/3/2023	498.4	x	x	x	weekly
Brett	1/9/2023	498.4	x	x	x	weekly
Brett	1/17/2023	499.2	x	x	x	weekly
Brett	1/25/2023	499.5	x	x	x	weekly
Brett	1/30/2023	499.5	x	x	x	weekly
Brett	2/7/2023	499.5	x	x	x	weekly
Brett	2/14/2023	499.9	x	x	x	weekly
Brett	2/21/2023	500.2	x	x	x	weekly
Brett	2/27/2023	500.2	x	x	x	weekly
Brett	3/6/2023	500.6	x	x	x	weekly
Brett	13-Mar	500.9	x	x	x	weekly
Brett	3/20/2023	501.3	x	x	x	weekly ~ 22.3
Brett	4/4/2023	501.3	x	x	x	weekly
Brett	4/10/2023	502.3	x	x	x	weekly
Brett	4/17/2023	502.7	x	x	x	weekly
Brett	4/25/2023	508.4	x	x	x	weekly

Emergency Generator Weekly Check Record

Tracking # FC1002 Bldg E Life Safety

Inspector	Date	Hour Meter	Oil Level	Coolant	Battery	Notes
Brett	4/21/2022	436.7	x	x	x	weekly
Brett	5/2/2022	436.8	x	x	x	weekly
Brett	5/10/2022	437	x	x	x	weekly
Brett	5/16/2022	438.2	x	x	x	weekly
Brett	5/25/2022	438.5	x	x	x	weekly
Brett	5/31/2022	438.8	x	x	x	weekly
Brett	6/6/2022	439.2	x	x	x	weekly
Brett	6/16/2022	439.5	x	x	x	weekly
Brett	6/21/2022	439.9	x	x	x	weekly
Brett	6/27/2022	440.2	x	x	x	weekly
Brett	7/5/2022	440.6	x	x	x	weekly
	7/12/2022	444.9	x	x	x	weekly
Brett	7/17/2022	445.4	x	x	x	weekly
Brett	7/24/2022	445.9	x	x	x	weekly
Brett	8/7/2022	446.5	x	x	x	weekly
Brett	8/14/2022	447	x	x	x	weekly
Brett	8/21/2022	447.6	x	x	x	weekly
Brett	8/28/2022	448.1	x	x	x	weekly
Brett	4-Sep	448.7	x	x	x	weekly
Brett	9/11/2022	449.3	x	x	x	weekly
Brett	9/18/2022	449.8	x	x	x	weekly
Brett	9/24/2022	450.1	x	x	x	weekly
Brett	10/2/2022	450.7	x	x	x	weekly
Brett	10/9/2022	451.1	x	x	x	weekly
Brett	16/16/2022	451.7	x	x	x	weekly
Brett	10/23/2022	452.1	x	x	x	weekly
Brett	10/30/2022	452.7	x	x	x	weekly
Brett	11/7/2022	453.2	x	x	x	weekly
Brett	11/15/2022	453.5	x	x	x	weekly
Brett	11/22/2022	453.9	x	x	x	weekly
Brett	11/29/2022	454.2	x	x	x	weekly
Brett	12/9/2022	454.5	x	x	x	weekly
Brett	12/12/2022	454.9	x	x	x	weekly
Brett	12/20/2022	455.2	x	x	x	weekly
Brett	1/3/2023	456.3	x	x	x	weekly
Brett	1/9/2023	456.3	x	x	x	weekly
Brett	1/17/2023	456.6	x	x	x	weekly
Brett	1/22/2023	457	x	x	x	weekly
Brett	1/30/2023	457.3	x	x	x	weekly
Brett	2/7/2023	457.3	x	x	x	weekly
Brett	2/14/2023	458	x	x	x	weekly
Brett	2/21/2023	458.4	x	x	x	weekly
Brett	2/27/2023	458.7	x	x	x	weekly
Brett	3/6/2023	459.1	x	x	x	weekly
Brett	3/13/2023	459.4	x	x	x	weekly
Brett	3/20/2023	459.8	x	x	x	weekly - 23.1
Brett	4/10/2023	460.8	x	x	x	weekly
Brett	4/17/2023	461.2	x	x	x	weekly
Brett	4/25/2023	461.5	x	x	x	weekly

Emergency Generator Weekly Check Record

Tracking # FC2221 Bldg CA Data Center Backup

Inspector	Date	Hour Meter	Oil Level	Coolant	Battery	Notes
Brett	4/21/2022	272.9	x	x	x	weekly
Brett	5/2/2022	275.2	x	x	x	weekly
Brett	5/10/2022	275.7	x	x	x	weekly
Brett	5/16/2022	276.2	x	x	x	weekly
Brett	5/25/2022	277.2	x	x	x	weekly
Brett	5/31/2022	277.2	x	x	x	weekly
Brett	6/6/2022	277.7	x	x	x	weekly
Brett	6/21/2022	279.3	x	x	x	weekly
Brett	6/27/2022	279.4	x	x	x	weekly
Brett	7/5/2022	280.1	x	x	x	weekly
Brett	7/12/2022	287.9	x	x	x	weekly
Brett	7/17/2022	294.6	x	x	x	weekly
Brett	7/24/2022	295	x	x	x	weekly
Brett	8/7/2022	295.6	x	x	x	weekly
Brett	8/14/2022	296.1	x	x	x	weekly
Brett	8/21/2022	296.6	x	x	x	weekly
Brett	8/28/2022	296.1	x	x	x	weekly
Brett	4-Sep	296.5	x	x	x	weekly
Brett	9/11/2022	297	x	x	x	weekly
Brett	9/18/2022	297.6	x	x	x	weekly
Brett	9/24/2022	298.2	x	x	x	weekly
Brett	10/2/2022	298.8	x	x	x	weekly
Brett	10/9/2022	293.2	x	x	x	weekly
Brett	16/16/2022	293.8	x	x	x	weekly
Brett	10/23/2022	294.4	x	x	x	weekly
Brett	10/30/2022	294.8	x	x	x	weekly
Brett	11/7/2022	295.4	x	x	x	weekly
Brett	11/15/2022	296.4	x	x	x	weekly
Brett	11/22/2022	296.4	x	x	x	weekly
Brett	11/29/2022	297.4	x	x	x	weekly
Brett	12/9/2022	297.9	x	x	x	weekly
Brett	12/12/2022	297.9	x	x	x	weekly
Brett	12/20/2022	298.4	x	x	x	weekly
Brett	1/3/2023	299.9	x	x	x	weekly
Brett	1/9/2023	299.9	x	x	x	weekly
Brett	1/17/2023	300.9	x	x	x	weekly
Brett	1/25/2023	301.4	x	x	x	weekly
Brett	1/30/2023	301.4	x	x	x	weekly
Brett	2/7/2023	301.9	x	x	x	weekly
Brett	2/14/2023	302.4	x	x	x	weekly
Brett	2/21/2023	302.9	x	x	x	weekly
Brett	2/27/2023	303.4	x	x	x	weekly
Brett	3/6/2023	303.9	x	x	x	weekly
Brett	3/13/2023	304.4	x	x	x	weekly
Brett	3/20/2023	304.9	x	x	x	weekly -32
Brett	4/4/2023	304.9	x	x	x	weekly
Brett	4/10/2023	306.4	x	x	x	weekly
Brett	4/17/2023	306.9	x	x	x	weekly
Brett	4/25/2023	307.4	x	x	x	weekly

Emergency Generator Weekly Check Record

Tracking # FC1003 Bldg C Life Safety

Inspector	Date	Hour Meter	Oil Level	Coolant	Battery	Notes
Brett	4/21/2022	412.4	x	x	x	weekly
Brett	5/2/2022	413.1	x	x	x	weekly
Brett	5/10/2022	413.4	x	x	x	weekly
Brett	5/16/2022	413.8	x	x	x	weekly
Brett	5/25/2022	413.9	x	x	x	weekly
Brett	5/31/2022	414.4	x	x	x	weekly
Brett	6/6/2022	414.6	x	x	x	weekly
Brett	6/16/2022	414.8	x	x	x	weekly
Brett	6/21/2022	414.9	x	x	x	weekly
Brett	6/27/2022	415.1	x	x	x	weekly
Brett	7/5/2022	416.1	x	x	x	weekly
Brett	7/12/2022	416.7	x	x	x	weekly
Brett	7/17/2022	417.6	x	x	x	weekly
Brett	7/24/2022	419.2	x	x	x	weekly
Brett	8/7/2022	419.8	x	x	x	weekly
Brett	8/14/2022	420.4	x	x	x	weekly
Brett	8/21/2022	421	x	x	x	weekly
Brett	8/28/2022	422.5	x	x	x	weekly
Brett	4-Sep	423	x	x	x	weekly
Brett	9/11/2022	423.6	x	x	x	weekly
Brett	9/18/2022	424.1	x	x	x	weekly
Brett	9/24/2022	424.6	x	x	x	weekly
Brett	10/2/2022	425.1	x	x	x	weekly
Brett	10/9/2022	425.6	x	x	x	weekly
Brett	16/16/2022	426	x	x	x	weekly
Brett	10/23/2022	426.6	x	x	x	weekly
Brett	10/30/2022	427.2	x	x	x	weekly
Brett	11/7/2022	427.8	x	x	x	weekly
Brett	11/15/2022	428.2	x	x	x	weekly
Brett	11/22/2022	428.5	x	x	x	weekly
Brett	11/29/2022	428.8	x	x	x	weekly
brett	12/9/2022	429.5	x	x	x	weekly
Brett	12/12/2022	429.5	x	x	x	weekly
Brett	12/20/2022	429.8	x	x	x	weekly
Brett	1/3/2023	430.8	x	x	x	weekly
Brett`	1/9/2023	430.8	x	x	x	weekly
Brett	1/17/2023	431.1	x	x	x	weekly
Brett	1/25/2023	431.5	x	x	x	weekly
Brett	1/30/2023	431.8	x	x	x	weekly
Brett	2/7/2023	432.1	x	x	x	weekly
Brett	2/14/2023	436.8	x	x	x	weekly
Brett	2/21/2023	438.8	x	x	x	weekly
Brett	2/27/2023	439.2	x	x	x	weekly
Brett	3/6/2023	433.5	x	x	x	weekly
Brett	3/13/2023	433.5	x	x	x	weekly
Brett	3/20/2023	434.1	x	x	x	weekly ~ 21.7
Brett	4/4/2023	435.1	x	x	x	weekly
Brett	4/10/2023	435.1	x	x	x	weekly
Brett	4/17/2023	435.5	x	x	x	weekly
Brett	4/25/2023	435.8	x	x	x	weekly

Emergency Generator Weekly Check Record

Tracking # FC1004 Bldg Z Life Safety

Inspector	Date	Hour Meter	Oil Level	Coolant	Battery	Notes
Brett	4/21/2022	428.2	x	x	x	weekly
Brett	5/2/2022	428.4	x	x	x	weekly
Brett	5/16/2022	428..6	x	x	x	weekly
Brett	5/25/2022	429.6	x	x	x	weekly
Brett	5/31/2022	429.8	x	x	x	weekly
Brett	6/6/2022	429.9	x	x	x	weekly
Brett	6/16/2016	430.2	x	x	x	weekly
Brett	6/21/2022	430.2	X	X	X	weekly
Brett	6/27/2022	430.2	x	x	x	weekly
Brett	7/5/2022	430.5	x	x	x	weekly
Brett	7/12/2022	434.1	x	x	x	weekly
Brett	7/17/2022	434.6	x	x	x	weekly
Brett	7/24/2022	435	x	x	x	weekly
Brett	8/7/2022	435.6	x	x	x	weekly
Brett	8/14/2022	436	x	x	x	weekly
Brett	8/21/2022	436.6	x	x	x	weekly
Brett	8/28/2022	437.1	x	x	x	weekly
Brett	4-Sep	437.7	x	x	x	weekly
Brett	9/11/2022	438.3	x	x	x	weekly
Brett	9/18/2022	438.9	x	x	x	weekly
Brett	9/24/2022	439.5	x	x	x	weekly
Brett	10/2/2022	440	x	x	x	weekly
Brett	10/9/2022	440.6	x	x	x	weekly
Brett	16/16/2022	441.2	x	x	x	weekly
Brett	10/23/2022	441.8	x	x	x	weekly
Brett	10/30/2022	440.2	x	x	x	weekly
Brett	11/7/2022	440.8	x	x	x	weekly
Brett	11/15/2022	441.1	x	x	x	weekly
Brett	11/22/2022	441.1	x	x	x	weekly
Brett	11/29/2022	441.1	x	x	x	weekly
Brett	12/9/2022	441.1	x	x	x	weekly
Brett	12/12/2022	441.1	x	x	x	weekly
Brett	12/20/2022	441.1	x	x	x	weekly
Brett	1/3/2023	441.1	x	x	x	weekly
Brett	1/9/2023	441.1	x	x	x	weekly
Brett	1/17/2023	441.1	x	x	x	weekly
Brett	1/25/2023	441.1	x	x	x	weekly
Brett	1/30/2023	441.1	x	x	x	weekly
Brett	2/7/2023	441.1	x	x	x	weekly
Brett	2/14/2023	441.1	x	x	x	weekly
Brett	2/21/2023	441.1	x	x	x	weekly
Brett	2/27/2023	441.1	x	x	x	weekly
Brett	3/6/2023	441.1	x	x	x	weekly
Brett	3/13/2023	441.1	x	x	x	weekly
Brett	3/20/2023	441.1	x	x	x	weekly - 12.9
Brett	4/4/2023	441.1	x	x	x	weekly
Brett	4/10/2023	441.1	x	x	x	weekly
Brett	4/17/2023	441.1	x	x	x	weekly
Brett	4/25/2023	441.1	x	x	x	weekly

Emergency Generator Weekly Check Record

Tracking # FC2077 Bldg X Life Safety

Inspector	Date	Hour Meter	Oil Level	Coolant	Battery	Notes
Brett	4/21/2022	528.8	x	x	x	weekly
Brett	5/2/2022	529.6	x	x	x	weekly
Brett	5/10/2022	529.9	x	x	x	weekly
Brett	5/16/2022	530	x	x	x	weekly
Brett	5/25/2022	531	x	x	x	weekly
Brett	6/6/2022	531.4	x	x	x	weekly
Brett	6/21/2022	532.1	x	x	x	weekly
Brett	6/27/2022	532.5	x	x	x	weekly
Brett	7/5/2022	532.9	x	x	x	weekly
Brett	7/12/2022	539.9	x	x	x	weekly
Brett	7/17/2022	540.6	x	x	x	weekly
Brett	7/24/2022	541.1	x	x	x	weekly
Brett	8/7/2022	541.6	x	x	x	weekly
Brett	8/14/2022	542	x	x	x	weekly
Brett	8/21/2022	542.6	x	x	x	weekly
Brett	8/28/2022	543.1	x	x	x	weekly
Brett	4-Sep	542.1	x	x	x	weekly
Brett	9/11/2022	542.7	x	x	x	weekly
Brett	9/18/2022	543	x	x	x	weekly
Brett	9/24/2022	543.6	x	x	x	weekly
Brett	10/2/2022	544.1	x	x	x	weekly
Brett	10/9/2022	544.5	x	x	x	weekly
Brett	16/16/2022	545	x	x	x	weekly
Brett	10/23/2022	545.6	x	x	x	weekly
Brett	10/30/2022	546.1	x	x	x	weekly
Brett	11/7/2022	546.7	x	x	x	weekly
Brett	11/15/2022	547.5	x	x	x	weekly
Brett	11/22/2022	547.5	x	x	x	weekly
Brett	11/29/2022	548.2	x	x	x	weekly
Brett	12/9/2022	548.6	x	x	x	weekly
Brett	12/12/2022	548.6	x	x	x	weekly
Brett	12/20/2022	548.9	x	x	x	weekly
Brett	1/3/2023	549.3	x	x	x	weekly
Brett	1/9/2023	550	x	x	x	weekly
Brett	1/17/2023	550.4	x	x	x	weekly
Brett	1/25/2023	551.1	x	x	x	weekly
Brett	1/30/2023	551.1	x	x	x	weekly
Brett	2/7/2023	551.5	x	x	x	weekly
Brett	2/14/2023	551.9	x	x	x	weekly
Brett	2/21/2023	552.6	x	x	x	weekly
Brett	2/27/2023	552.6	x	x	x	weekly
Brett	3/6/2023	553	x	x	x	weekly
Brett	3/13/2023	553.4	x	x	x	weekly
Brett	3/20/2023	553.7	x	x	x	weekly - 24.9
Brett	4/4/2023	554.8	x	x	x	weekly
Brett	4/10/2023	554.8	x	x	x	weekly
Brett	4/17/2023	555.2	x	x	x	weekly
Brett	4/25/2023	555.6	z	z	z	weekly

Emergency Generator Weekly Check Record

Tracking # FC2566 Bldg D SCIF ONAN

Inspector	Date	Hour Meter	Oil Level	Coolant	Battery	Notes
Brett	4/21/2022	165.8	x	x	x	all checks ok
Brett	5/2/2022	168.9	x	x	x	all checks ok
Brett	5/10/2022	169.4	x	x	x	all checks ok
Brett	5/16/2022	170	x	x	x	all checks ok
Brett	5/25/2022	171	x	x	x	all checks ok
Brett	5/31/2022	171.3	x	x	x	all check ok
Brett	6/6/2022	171.6	x	x	x	all checks ok
Brett	6/21/2022	172.6	x	x	x	all checks ok
Brett	6/27/2022	173.2	x	x	x	all ckecks ok
Brett	7/5/2022	173.3	x	x	x	all checks ok
Brett	7/12/2022	183.4	x	x	x	all checks ok
Brett	7/17/2022	183.9	x	x	x	all checks ok
Brett	7/24/2022	184.5	x	x	x	all checks ok
Brett	8/7/2022	185	x	x	x	all checks ok
Brett	8/14/2022	186.3	x	x	x	all checks ok
Brett	8/21/2022	189.2	x	x	x	all checks ok
Brett	8/28/2022	194	x	x	x	all checks ok
Brett	4-Sep	194.5	x	x	x	all checks ok
Brett	9/11/2022	195	x	x	x	all checks ok
Brett	9/18/2022	195.5	x	x	x	all checks ok
Brett	9/24/2022	196.2	x	x	x	all checks ok
Brett	10/2/2022	196.7	x	x	x	all checks ok
Brett	10/9/2022	197.1	x	x	x	all checks ok
Brett	16/16/2022	197.6	x	x	x	all checks ok
Brett	10/23/2022	198	x	x	x	all checks ok
Brett	10/30/2022	198.5	x	x	x	all checks ok
Brett	11/7/2022	190	x	x	x	all checks ok
Brett	11/15/2022	191.1	x	x	x	all checks ok
Brett	11/22/2022	191.1	x	x	x	
Brett	11/29/2022	191.6	X	X	X	weekly
Brett	12/9/2022	192.2	x	x	x	weekly
Brett	12/12/2022	192.7	x	x	x	weekly
Brett	12/20/2022	193.3	x	x	x	weekly
Brett	1/3/2023	194.9	x	x	x	weekly
Brett	1/9/2023	194.9	x	x	x	weekly
Brett	1/17/2023	195.4	x	x	x	weekly
Brett	1/25/2023	196	x	x	x	weekly
Brett	1/30/2023	196.5	x	x	x	weekly
Brett	2/7/2023	197	x	x	x	weekly
Brett	2/14/2023	197.6	x	x	x	weekly
Brett	2/21/2023	198.1	x	x	x	weekly
Brett	2/27/2023	198.6	x	x	x	weekly
Brett	3/6/2023	199.2	x	x	x	weekly
Brett	3/13/2023	199.7	x	x	x	weekly
Brett	3/20/2023	200.3	x	x	x	weekly 34.5
Brett	4/4/2023	201.9	x	x	x	weekly
Brett	4/10/2023	201.9	x	x	x	weekly
Brett	4/17/2023	202.4	X	X	X	weekly
Brett	4/25/2023	202.9	x	x	x	weekly

Emergency Generator Weekly Check Record

Tracking # FC3722 Bldg 0

Inspector	Date	Hour Meter	Oil Level	Coolant	Battery	Notes
Brett	4/4/2022	32.5	x	x	x	all checks ok
Brett	4/11/2022	33	x	x	x	all checks ok
Brett	4/21/2022	33.5	x	x	x	all checks ok
Brett	5/2/2022	34	x	x	x	all checks ok
Brett	5/10/2022	34.5	x	x	x	all checks ok
Brett	5/16/2022	35	x	x	x	all checks ok
Brett	5/25/2022	35.5	x	x	x	all checks ok
Brett	5/31/2022	36	x	x	x	all check ok
Brett	6/6/2022	36.5	x	x	x	all checks ok
Brett	6/21/2022	37..5	x	x	x	all checks ok
Brett	6/27/2022	38	x	x	x	all ckecks ok
Brett	7/5/2022	38.5	x	x	x	all checks ok
Brett	7/12/2022	48.9	x	x	x	all checks ok
Brett	7/17/2022	49.4	x	x	x	all checks ok
Brett	7/24/2022	49.9	x	x	x	all checks ok
Brett	8/7/2022	50.4	x	x	x	all checks ok
Brett	8/14/2022	50.9	x	x	x	all checks ok
Brett	8/21/2022	51.4	x	x	x	all checks ok
Brett	8/28/2022	53.8	x	x	x	all checks ok
Brett	4-Sep	54.4	x	x	x	all checks ok
Brett	9/11/2022	54.9	x	x	x	all checks ok
Brett	9/18/2022	55.4	x	x	x	all checks ok
Brett	9/24/2022	57.6	x	x	x	all checks ok
Brett	10/2/2022	58.1	x	x	x	all checks ok
Brett	10/9/2022	58.6	x	x	x	all checks ok
Brett	16/16/2022	59.4	x	x	x	all checks ok
Brett	10/23/2022	60.9	x	x	x	all checks ok
Brett	10/30/2022	61.4	x	x	x	all checks ok
Brett	11/7/2022	61.9	x	x	x	all checks ok
Brett	11/15/2022	62.9	x	x	x	weekly
Brett	11/22/2022	62.9	x	x	x	weekly
Brett	11/29/2022	63.6	x	x	x	weekly
Brett	12/9/2022	64.1	x	x	x	weekly
Brett	12/12/2022	64.6	x	x	x	weekly
Brett	12/20/2022	65.2	x	x	x	weekly
Brett	1/3/2023	66.2	x	x	x	all checks ok
Brett	1/9/2023	66.8	x	x	x	all checks ok
Brett	1/17/2023	67.3	x	x	x	all checks ok
Brett	1/25/2023	67.8	x	x	x	weekly
Brett	1/30/2023	68.4	x	x	x	weekly
Brett	2/7/2023	68.9	x	x	x	weekly
Brett	2/14/2023	69.5	x	x	x	weekly
Brett	2/21/2023	70.7	x	x	x	weekly
Brett	2/27/2023	70.5	x	x	x	weekly
Brett	3/6/2023	71.1	x	x	x	weekly
Brett	3/13/2023	71.6	x	x	x	weekly
Brett	3/20/2023	72.1	x	x	x	weekly - 39.6
Brett	4/4/2023	73.1	x	x	x	weekly
Brett	4/10/2023	73.7	x	x	x	weekly
Brett	4/17/2023	74.3	x	x	x	weekly
Brett	4/25/2023	74.8	x	x	x	weekly

L3Harris Communications
Potential to Emit Calculations
Backup Generator - Building O

Constant	Value	Units	Reference
Max Potential Operating Rate	755	bHP	Cummins generator set data sheet
Max Fuel Consumption Rate	30.3	gal/hr	Cummins generator set data sheet
Heat Input from Diesel Fuel	4.21	MMBtu/hr	Calculated as (gal/hr x 0.139 MMBtu/gal) - 0.139 MMBtu/gal from 40 CFR 98 Subpt C, Table C-1
Wt% S in ULSD	0.0015	wt% S	15 ppm S converted to percentage
Potential Hours of Operation	300	hr/year	UDAQ Form 17 (100 allowable testing hours under MACT/NSPS plus 200 assumed emergency hours of operation

Criteria Pollutant Emissions

Pollutant	Emission Factor	Units	Emission Rate (lb/hr) [1]	Potential Emissions (tpy) [2]	Emission Factor Reference
CO	4.00E-01	g/hp-hr	0.67	0.10	Cummins Engine - Tier 2 Compliance Statement
NOx	4.20E+00	g/hp-hr	6.99	1.05	Cummins Engine - Exhaust Emissions Data Sheet (max of 4 cases)
Total PM	1.00E-01	g/hp-hr	0.17	0.02	Cummins Engine - Tier 2 Compliance Statement
PM_{10}	1.00E-01	g/hp-hr	0.17	0.02	Assumed PM2.5 = PM10 = Total PM
$PM_{2.5}$	1.00E-01	g/hp-hr	0.17	0.02	Assumed PM2.5 = PM10 = Total PM
SO_2	1.52E-03	lb/MMBtu	0.01	0.00	AP-42 Chapter 3, Section 3.4, Table 3.4-1, lb/MMBtu = 1.01 x (0.0015), per Footnote D.
VOC	2.20E-01	g/hp-hr	0.37	0.05	Cummins Engine - Exhaust Emissions Data Sheet (max of 4 cases, using Total Unburned HC)
CO_2	163.05	lb/MMBtu	686.73	103.01	40 CFR 98, GHG MRR Table C-1, Distillate Fuel Oil No. 2, converted assuming 2.2046 lb/kg
CH_4	6.61E-03	lb/MMBtu	2.79E-02	4.18E-03	40 CFR 98, GHG MRR Table C-2, Petroleum Products, converted assuming 2.2046 lb/kg
N_2O	1.32E-03	lb/MMBtu	5.57E-03	8.36E-04	40 CFR 98, GHG MRR Table C-2, Petroleum Products, converted assuming 2.2046 lb/kg
CO_2e	163.61	lb/MMBtu	689.08	103.36	GWP = 25 for CH_4, 298 for N_2O

[1] Emission Rate (lb/hr) = Emission Factor (g/hp-hr) x Maxium Operating Rate (bHP) / 453.592 g/lb OR Emission Rate (lb/hr) = Emission Factor (lb/MMBtu) x Heat Input from Diesel Fuel (MMBt

[2] Potential Emissions (tpy) = Emission Rate (lb/hr) x Potential Hours of Operation / 2,000 lb/ton

HAP Emissions

Pollutant	Emission Factor	Units	Emission Rate (lb/hr) [1]	Potential Emissions (tpy) [2]	Emission Factor Reference
Benzene	7.76E-04	lb/MMBtu	3.27E-03	4.90E-04	AP-42 Chapter 3, Section 3.4, Table 3.4-3
Toluene	2.81E-04	lb/MMBtu	1.18E-03	1.78E-04	AP-42 Chapter 3, Section 3.4, Table 3.4-3
Xylenes	1.93E-04	lb/MMBtu	8.13E-04	1.22E-04	AP-42 Chapter 3, Section 3.4, Table 3.4-3
Formaldehyde	7.89E-05	lb/MMBtu	3.32E-04	4.98E-05	AP-42 Chapter 3, Section 3.4, Table 3.4-3
Acetaldehyde	2.52E-05	lb/MMBtu	1.06E-04	1.59E-05	AP-42 Chapter 3, Section 3.4, Table 3.4-3
Acrolein	7.88E-06	lb/MMBtu	3.32E-05	4.98E-06	AP-42 Chapter 3, Section 3.4, Table 3.4-3
Naphthalene	1.30E-04	lb/MMBtu	5.48E-04	8.21E-05	AP-42 Chapter 3, Section 3.4, Table 3.4-4
Acenaphthylene	9.23E-06	lb/MMBtu	3.89E-05	5.83E-06	AP-42 Chapter 3, Section 3.4, Table 3.4-4
Acenaphthene	4.68E-06	lb/MMBtu	1.97E-05	2.96E-06	AP-42 Chapter 3, Section 3.4, Table 3.4-4
Fluorene	1.28E-05	lb/MMBtu	5.39E-05	8.09E-06	AP-42 Chapter 3, Section 3.4, Table 3.4-4
Phenanthrene	4.08E-05	lb/MMBtu	1.72E-04	2.58E-05	AP-42 Chapter 3, Section 3.4, Table 3.4-4
Anthracene	1.23E-06	lb/MMBtu	5.18E-06	7.77E-07	AP-42 Chapter 3, Section 3.4, Table 3.4-4
Fluoranthene	4.03E-06	lb/MMBtu	1.70E-05	2.55E-06	AP-42 Chapter 3, Section 3.4, Table 3.4-4
Pyrene	3.71E-06	lb/MMBtu	1.56E-05	2.34E-06	AP-42 Chapter 3, Section 3.4, Table 3.4-4
Benz(a)anthracene	6.22E-07	lb/MMBtu	2.62E-06	3.93E-07	AP-42 Chapter 3, Section 3.4, Table 3.4-4
Chrysene	1.53E-06	lb/MMBtu	6.44E-06	9.67E-07	AP-42 Chapter 3, Section 3.4, Table 3.4-4
Benzo(b)fluoranthene	1.11E-06	lb/MMBtu	4.67E-06	7.01E-07	AP-42 Chapter 3, Section 3.4, Table 3.4-4
Benzo(k)fluoranthene	2.18E-07	lb/MMBtu	9.18E-07	1.38E-07	AP-42 Chapter 3, Section 3.4, Table 3.4-4
Benzo(a)pyrene	2.57E-07	lb/MMBtu	1.08E-06	1.62E-07	AP-42 Chapter 3, Section 3.4, Table 3.4-4
Indeno(1,2,3-cd)pyrene	4.14E-07	lb/MMBtu	1.74E-06	2.62E-07	AP-42 Chapter 3, Section 3.4, Table 3.4-4
Dibenz(a,h)anthracene	3.46E-07	lb/MMBtu	1.46E-06	2.19E-07	AP-42 Chapter 3, Section 3.4, Table 3.4-4
Benzo(g,h,i)perylene	5.56E-07	lb/MMBtu	2.34E-06	3.51E-07	AP-42 Chapter 3, Section 3.4, Table 3.4-4
Total HAP	-	-	6.63E-03	9.94E-04	AP-42 Chapter 3, Section 3.4, Table 3.4-4

[1] Emission Rate (lb/hr) = Emission Factor (lb/MMBtu) x Heat Input from Diesel Fuel (MMBtu/hr)

[2] Potential Emissions (tpy) = Emission Rate (lb/hr) x Potential Hours of Operation / 2,000 lb/ton

Exhaust Emission Data Sheet
450DFEJ
60 Hz Diesel Generator Set
EPA NSPS Stationary Emergency

Engine Information:

Model:	Cummins Inc. QSX15-G9 NR 2	Bore:	5.39 in. (137 mm)
Nameplate BHP @ 1800 RPM:	755	Stroke:	6.65 in. (169 mm)
Type:	4 cycle, in-line, 6 cylinder diesel	Displacement:	912 cu. in. (14.9 liters)
Aspiration:	Turbocharged with air-to-air charge air cooling		
Compression Ratio:	17:1		
Emission Control Device:	Turbocharged with charge air-cooled		

Performance Data	1/4 Standby	1/2 Standby	3/4 Standby	Full Standby	Full Prime
Engine HP @ Stated Load (1800 RPM)	185	344	502	661	605
Fuel Consumption (gal/Hr)	10.6	17.4	23.6	30.3	28.0
Exhaust Gas Flow (CFM)	1360	2000	2605	3110	2920
Exhaust Gas Temperature (°F)	735	820	810	865	825
Exhaust Emission Data					
HC (Total Unburned Hydrocarbons)	0.22	0.08	0.06	0.12	0.11
NOx (Oxides of Nitrogen as NO_2)	2.97	3.31	4.20	4.00	3.66
CO (Carbon Monoxide)	0.52	0.31	0.37	0.35	0.32
PM (Particulate Matter)	0.08	0.05	0.04	0.02	0.02
Smoke (Bosch)	0.47	0.40	0.38	0.19	0.18

All values (except smoke) are cited: g/BHP-hr

Test Methods and Conditions

Steady-state emissions recorded per ISO8178-1 during operation at rated engine speed (+/- 2%) and stated constant load (+/- 2%) with engine temperatures, pressures and emission rated stabilized.

Fuel specification:	40-48 Cetane Number, 0.05 Wt.% max. Sulfur; Reference ISO8178-5, 40CFR86.1313-98 Type 2-D and ASTM D975 No. 2-D.
Air Inlet Temperature:	25 °C (77 °F)
Fuel Inlet Temperature:	40 °C (104 °F)
Barometric Pressure:	100 kPa (29.53 in Hg)
Humidity:	10.7 g/kg (75 grains H_2O/lb) of dry air (required for NOx correction)
Intake Restriction:	Set to maximum allowable limit for clean filter
Exhaust Back Pressure:	Set to maximum allowable limit

Data was taken from a single engine test according to the test methods, fuel specification and reference conditions stated above and is subjected to instrumentation and engine-to-engine variability. Tests conducted with alternate test methods, instrumentation, fuel or reference conditions can yield different results.

Sinclair Wyoming Refining Company•Laboratory Services•Sinclair, WY

Certificate of Analysis, Pioneer Pipeline

#2 Diesel Fuel

Transferor:
Sinclair Wyoming Refining Company
100 E. Lincoln Highway • PO Box 277
Sinclair, WY 82334
EPA Company ID: 4624, Facility ID: 82453

Transferee:
ConocoPhillips
Pioneer Pipeline
600 N. Dairy Ashford Road
Houston, TX 77079-1175
EPA Company ID: 4528, Facility ID: 82245

Sample Date: 11/2/2021
Tank Number: Tank 523
LIMS ID: 604270
Tender: 311/314

Tester(s): Julie Grundman, Julie Grundman
Sampler: R. Martinez

Available BBLS: 10000/29000

Test	METHOD	RESULT	SPECIFICATIONS	
			MINIMUM	MAXIMUM
Gravity, API @ 60°F	ASTM D4052	35.2	30.0	
Flash Point (PMCC), °F	ASTM D93	141	135	
Haze @ 50°F	ASTM D4176, Proc. 2	1		2
Bright & Clear	ASTM D4176	Pass		PASS
Color	ASTM D1500	0.5		2.5
Ash, wt%	ASTM D482	<0.001		0.010
Distillation @ 760mmHg, °F	ASTM D86			
IBP		326.1		REPORT
10 vol.% Recovered		395.3		REPORT
50 vol.% Recovered		513.9		REPORT
90 vol.% Recovered		624.5	540.0	640.0
FBP		669.1		REPORT
% Total Recovered		99.6		REPORT
% Residue		1.4		REPORT
BS&W, vol%	ASTM D2709	0.025		0.050
Sulfur, ppm	ASTM D7039	4.6		10.0
Copper Strip Corrosion, 3hr @ 212°F	ASTM D130	1b		1b
CR, Ramsbottom, wt%	ASTM D524	0.05		0.35
Thermal Stability, Y Filter	ASTM D6468	99.7	82.0	
Cetane Index, 4V	ASTM D4737, Proc. A	46.4	40.0	
Cetane Index, 2V	ASTM D976	47.8	40	
Cloud Point, °F	ASTM D5773	3.0		6.0
Pour Point, °F	ASTM D5949	-20		-15
Viscosity @ 104°F, cSt	ASTM D445	2.649	1.900	3.400
NACE Rust Test, Rating	TM0172-2001	A	B+	

Approved By: Jack Leiseth

Date: 11/2/2021

#2 Diesel 15ppm w/w Sulfur Motor Vehicle Diesel Fuel.

15ppm w/w Sulfur (maximum) Undyed Ultra-Low Sulfur #2 Diesel Fuel. For use in all diesel vehicles and engines. This product may contain Tolad 3030 and Tolad 3232D.

AIR EMISSIONS ROLLING SUMS
4/20/2023
04-01-2022 to 03-31-2023

Part Number	Production Description	Usage Gal/Yr	Density	Usage Lb/Yr	VOC Content %	VOC Lb/Yr	nversion Defa	onversion Fact	HAP Total
1000109516	KEY TOUGH-SEAL 21 A/B	10	10.9	109	0.33%	0.3597		1	0
1000159507	3M SCOTCH-WELD EPOXY ADH DP420	16	9.52	152.32	0.35%	0.5331		1	0
1000174538	KYZEN AQUANOX A4727	1	8.22	8.22	6.88%	0.5655		1	0
1000178236	JNJ IPA WIPES	0.92	6.59	6.0628	99.00%	6.0022	0.23	1	0
1000183708	ALPHA HF-1 FLUX GEL	0.1264	2.78	0.3514	77.04%	0.2707	0.0079	1	0
1000194719	GLASS, CLEANER, AEROSOL TOUGH GUY	2	8.31	16.62	7.38%	1.2266		1	0
1000203149	DOW GLYCOL ETHER DPM	1	7.93	7.93	100.00%	7.93		1	0
1000371757	MCGEE MAC 1038 MOLD RELEASE	1	5.9	5.9	98.00%	5.782	1	1	0
1000386136	OIL, THREAD CUTTING	0.015	7.51	0.1127	95.00%	0.107	0.125	1	0
1000387757	PAINT, LATEX - INTERIOR ACRYLIC LATEX LO	124.9222	20.34	1270.4588	4.12%	52.3429	9.6094	2	0
1000387880	SOAP, DISH	0.3	8.35	2.505	5.00%	0.1253		1	0
1000397376	SIMPLE GREEN ALL-PURPOSE WIPES	2	0	0	0.02%	0		1	0
1000425169	PURPLE PRIMER PVC 4OZ	0.0047	7	0.0329	60.19%	0.0198	0.0313	1	0
1000425192	DETECTOR, LEAK, NU-CALGON	0.65	9.59	6.2335	98.00%	6.1088	0	1	0
1000430618	VRS INSTAMARK REFILL INK BLACK	0.1248	8.34	1.0408	100.00%	1.0408	0.0156	1	0
1000435397	CAULK, TUB/TILE, WHITE, DAP 18001	0.0026	13.19	0.034	10.00%	0.0034	0.043	1	0
1000437267	DRAIN ENZYME, WERTH FORMULA 66, GALLON,	3	8.36	25.08	1.00%	0.2508		1	0
1000438941	ITW DYKEM CROSS CHECK MARKER	0.1482	9.17	1.359	40.08%	0.5447	0.0078	1	0
1000439587	STICKLERS FIBER OPTIC CLEANER	0.076	12.35	0.9386	10.00%	0.0939	0.0152	1	0
2279528-000	AAVID THERMALBOND 4952G	17	19.32	328.44	0.00%	0		1	0
3001101-000	CLEANER, NU-CALGON Ice Machine Cleaner, Nickel Safe Yes, 16 oz., Liquic	0.9	9.93	8.937	4.00%	0.3575		1	0
3001127-000	Fuel Cylinder, MAPP/PRO, 14 oz.	0.6	4.34	2.604	100.00%	2.604		1	0
40001136-000	GREASE, WHITE LITHIUM10.25 OZ CAN	0.014	5.34	0.075	85.00%	0.0637	0.117	1	0
40001149-000	GLUE ABS	0.0075	7.43	0.0558	36.52%	0.0204	0.0626	1	0
40001150-000	GLUE ABS	0.125	7.17	0.8963	69.83%	0.6259	0.25	1	0
40001155-001	JOINT COMPOUND, ALL PURPOSE, PLUS 3	3.69	10.85	40.0365	0.15%	0.0601		1	0
40001165-000	RECKITT LYSOL DISINFECTING WIP	40.896	8.22	336.1651	7.50%	25.2124	0.213	1	0
40001175-000	RECKITT BENCKISER LYSOL ORIG	11.16	14.46	80.6868	67.50%	54.4636		2	0
40001180-000	GREASE, MOBILGREASE XHP 222 SPECIAL MULTIPURPOSE	0.12	7.34	0.8808	7.50%	0.0661		1	0
40006641-000	RAPID TAC GRAPHICS SOLUTION	1	8.3	8.3	15.00%	1.245	1	1	0
40006641-001	RAPID TAC GRAPHICS SOLUTION	0.25	8.3	2.075	15.00%	0.3113	0.25	1	0
40006782-000	LOCTITE 592	0.3963	10.1	4.0026	0.72%	0.0288	0.1321	1	0
40007404-001	LOCTITE 248 QUICKSTIX	0.1144	8.91	1.0193	7.80%	0.0795	0.0022	1	0
40007404-002	LOCTITE QUICKSTIX 268	0.0084	8.91	0.0748	7.80%	0.0058	0.0021	1	0
40007404-003	LOCTITE QUICKSTIX 668	0.0126	9.36	0.1179	0.79%	0.0009	0.0021	1	0
40007426-001	LOCTITE 3568 BLACK UNDERFILL	0.0598	11.02	0.659	22.80%	0.1503	0.0026	1	0
40007503-001	SUNSHINE SIMPLE GREEN STENCIL	1	8.55	8.55	2.04%	0.1744	1	1	0
40007898-000	LOCTITE QUICKSTIX ANTI SEIZE	0.0384	9.18	0.3525	12.18%	0.0429	0.0048	1	0
40007943-000	3M FOAM FAST 74 CLASSIC	1.6875	5.99	10.1081	55.00%	5.5595	0.1875	1	0
40008234-000	ACTION FLUOROETCH SOLVENT	0.75	8.67	6.5025	90.00%	5.8523	0.125	0.125	0
40001107-000	JT BAKER DENATURED ALCOHOL ACS	5.544	6.58	36.4795	100.00%	36.4795	0.264	1	0
40009181-000	LOCTITE 4851 CYANOACRYLATE ADH	0.0026	9	0.0234	77.30%	0.0181	0.0002	1	0
40009181-001	LOCTITE PRISM 4861 CLEAR	0.0028	9	0.0252	77.30%	0.0195	0.0002	1	0
40010539-003	ZESTRON ATRON AC 207	1643	7.92	13012.56	0.00%	0	53	1	0
40010973-000	3M SCOTCH-SEAL TAMPER PROOF	0.1564	12.52	1.9581	31.89%	0.6244	0.0391	1	0
40011385-000	LOCTITE AA 3381 LC	0.0003	9.04	0.0027	1.04%	0	0.0003	1	0
40010363-000	3M SCOTCH WELD AC77 PRIMER	4	5.76	23.04	100.00%	23.04		1	0
40010364-000	3M SCOTCHWELD SF100 CLEAR	0.0012	8.84	0.0106	9.90%	0.0011	0.0002	1	0
40010364-001	3M SCOTCH-WELD PR1500 ADHESIVE	0.0026	9.01	0.0234	9.70%	0.0023	0.0002	1	0
40011618-001	MIL-DTL-24441/21 F151 TYPE	8	11.1	88.8	30.44%	27.0307	2	1	0
40011815-000	PPG PR2001 B2	3.55	11.47	40.7185	7.23%	2.9439	0.071	1	0
40013240-004	HENKEL BONDERITE 871 TOUCHPREP	72	0	0	0.00%	0		1	0
40013786-000	KESTER ROSIN FLUX TYPE RMA	0.1482	7.33	1.0863	60.00%	0.6518	0.0026	1	0
40013883-000	ESCA TECH D WIPE TOWELS	1.6	8.34	13.344	8.00%	1.0675	0.16	1	0
40014024-000	LOCTITE 243 THREADLOCKER BLUE	13	9.1	118.3	1.09%	1.2895		1	0
40014169-000	ND INDUSTRY VC-3 THREADMATE	9	7.34	66.06	60.20%	39.7681	0	1	0
40014590-000	MICROCARE FLUX REMOVER C	1.148	8.34	9.5743	100.00%	9.5743	0.082	1	0
40014823-000	PURELL HAND SANITIZER ALOE	90	7.35	661.5	75.00%	496.125		1	0
40015088-000	MCGEE MAC 715 MOLD RELEASE	4.446	5.84	25.9646	98.00%	25.4453	0.078	1	0
40010327-002	WD40 AMBER LUBRICANT	0.3015	6.84	2.0623	24.10%	0.497	0.1005	1	0
7175355-000	IPS WELD-ON 711 PVC CEMENT	0.75	8.19	6.1425	86.60%	5.3194	0.25	0.25	0
7175410-000	LOCTITE LB 8150 ANTI SIEZE	4	10.43	41.72	12.96%	5.4069	0	1	0
7175883-002	HENTZEN MIL-PRF-22750 TY II CL	1	10.05	10.05	23.12%	2.3236	1	1	0
7175883-005	HENTZEN MIL-PRF-22750 TY II CL	1	12	12	23.30%	2.796	1	1	0
7181388-000	ALPHA METALS 615 FLUX SOLDER	4	7.35	29.4	62.00%	18.228	1	1	0
7184436-001	MILLER STEPH MS122AD DRY LUBE	1.1594	10.01	11.6056	0.00%	0	0.1054	1	0
7185090-000	EXXONMOBIL DTE LIGHT	2	7.25	14.5	1.00%	0.145		1	0
7186030-000	3M HI STRENGTH 90 SPRAY	1.4975	6.05	9.0605	54.00%	4.8927	0.0936	1	0

7186030-001	ADHESIVE -- CONTACT, SPRAY, SYNTHETIC EL	5	5.76	28.8	72.40%	20.8512	5	1	0
7186201-000	ITW TEXWIPE IPA CLEANING WIPE	94.5828	7.42	701.8044	70.00%	491.2631	0.2021	1	0
7186987-000	ENSOLV A CLEAN SOLVENT	30	10.67	320.1	100.00%	320.1	5	1	0
7182573-000	PETROFERM AXAREL 2200	6	6.84	41.04	100.00%	41.04	1	1	0
7182775-001	CHEMTRONICS FREEZ-IT ANTISTAT	7.254	10.09	73.1929	0.00%	0	0.117	1	0
7183853-000	ACTIVATOR-CLEANER,INERT SURF--	1.32	6.64	8.7645	13.30%	1.1657		0.0078	0
7190727-000	CHEMTRONICS CW3300G PEN GREEN	0.0013	7.51	0.0098	70.00%	0.0068	0.0013	1	0
7191199-000	VANTAGE BIOACT 105	55	6.68	367.4	100.00%	367.4	55	1	0
7191200-000	VANTAGE BIOACT 105 WIPES	13.376	6.68	89.3517	100.00%	89.3517	0.176	1	0
7192006-000	JNJ IPA/DI WIPES	196.2765	19.53	1277.76	70.00%	894.432	0.4185	3	0
7192159-000	EVERLUBE LUBRI-BOND 220	1.25	8.3	10.375	75.00%	7.7813	0.25	0.25	0
7701875-000	CAULK FIRESTOP	0.32	10.35	3.312	0.40%	0.0132		1	0
7702030-000	WINDEX	1.8125	16.7	15.1344	0.20%	0.0302	0.5	2	0
7702053-000	ADHESIVE, COVEBASE	0.8	9.51	7.608	1.00%	0.0761		1	0
7702100-001	WINDSHIELD WASHER FLUID	1	7.91	7.91	31.00%	2.4521	1	1	0
7702189-000	OATEY Solvent Cement: PVC/Regular Bodied, 8 oz Size, Clear	0.0038	7.51	0.0282	54.22%	0.0153	0.0313	1	0
7702309-000	CAULK, ADHESIVE, RTV 108 CAULK 2.8 OZ # 4UH08	0.0053	8.67	0.0458	1.92%	0.0009	0.022	1	0
7702315-000	EVAP FOAM NO RINSE, CLEANER, 1ANJ6	0.1579	8.67	1.3692	80.00%	1.0953	0.141	1	0
7702315-001	EVAP FOAM NO RINSE, CLEANER, 1ANJ6	8	0	0	30.00%	0		1	0
7702325-001	UNION RUBBER BESTINE SOLVENT	0.25	5.84	1.46	100.00%	1.46	0.25	0.25	0
7912239-006	PPG CA 8202/F17038 GLS BLK	2	8.93	17.86	70.40%	12.5734	0	1	0
7912239-008	PPG CA 8212/F37038 CAMO BLK	24	9.18	220.32	54.36%	119.766		1	0
7912239-021	PPG CA 8212/F36320 CAMO GREY	2	9.55	19.1	34.45%	6.58		1	0
7912239-022	PPG CA 8212/F36375 MED GREY	4	10.51	42.04	33.27%	13.9867		1	0
7910892-001	NAZDAR ADE78 SCREEN INK WHT	4	12.84	51.36	24.30%	12.4805	0	1	0
7182144-000	LOCTITE 410 CYANOACRYLATE ADH	0.016	9.18	0.1469	2.00%	0.0029	0.0002	1	0
7912263-000	WL GORE TETRAETCH	0.528	8.01	4.2293	100.00%	4.2293	0.132	1	0
7913840-000	ACETONE TECHNICAL	9	6.6	59.4	0.00%	0		1	0
7914000-000	SPRAYWAY GLASS CLEANER	18.837	8.02	151.0727	15.00%	22.6609	0.117	1	0
7914043-007	SEALING,LOCKING,RETAINING & BONDING COMP	46.0395	18.02	414.8163	10.00%	41.4816		1.0078	0
7914043-008	LOCTITE 290 THREADLOCKER	4	8.93	35.72	12.60%	4.5007		1	0
7914043-011	LOCTITE 635	4	9.1	36.4	46.20%	16.8168		1	0
7918116-000	LOCTITE ABLESTIK 84-1LMIT1	0.0176	28.37	0.4993	3.50%	0.0175	0.0008	1	0
7918501-000	SAMSON ALL-PURPOSE CLEANER	4	8.67	34.68	10.00%	3.468	1	1	0
7918633-003	DYNALOY DYNASOLVE 699 QUART	0.25	8.83	2.2075	100.00%	2.2075	0.25	0.25	0
7919206-000	LOCTITE P/N 20420	0.715	8.76	6.2634	2.00%	0.1253	0.011	1	0
7919206-001	LOCTITE SF 7452 ACTIVATOR	0.803	6.61	5.3078	1.02%	0.0541	0.0055	1	0
7956459-009	MACDERMID ENTHONE M-9-N	1	8.01	8.01	40.00%	3.204		1	0
7956459-015	MACDERMID ENTHONE M-9-N	0.25	14.18	3.545	19.54%	0.6927	0.25	1	0
7956668-000	ISOPROPYL ALCOHOL 99%	4	7	28	100.00%	28	1	1	0
7956668-001	ISOPROPYL ALCOHOL 99%	220	6.57	1445.4	100.00%	1445.4	55	1	0
7956682-000	METHYL ETHYL KETONE TECH GRADE	110	6.72	739.2	100.00%	739.2	55	1	0
7957512-003	LPS1 GREASLESS LUBRICANT 00116	2.8476	6.76	19.2498	0.40%	0.077	0.1017	1	0
7958010-000	LORD COOLTHERM SC-6708/6731	9	15	135	0.42%	0.567	0.25	1	0
7917998-005	HENTZEN MIL-DTL-64159B TY II A	3	9.34	28.02	24.03%	6.7332	1	1	0
7917998-006	HENTZEN MIL-DTL-64159B TY II A	15	9.97	149.55	20.06%	29.9997	3	1	0
1000120157	Peak anti-freeze 50/50	6	8.85	53.1	0.00%	0		1	28.143
1000145294	TESA 60150 ADHESION PROMOTER	22	6.8	149.6	100.00%	149.6		1	52.36
1000157290	ADHESIVE - THREADLOCKER, ANAEROBIC, THIX	0.0026	9.18	0.0243	2.11%	0.0005		0.0003	0.0002
1000196917	INSULATING COMPOUND, ELECTRICAL - HEAT C	13	8.76	113.88	50.95%	58.0219		1	3.4164
1000209786	GLYPTAL 12018 RED ENAMEL	0.5	12.03	6.015	54.00%	3.2481	0.25	0.25	2.1053
1000239009	HEXANE 211	1.06	5.62	5.9572	100.00%	5.9572	1.06	1	5.9572
1000382467	CAULK, ACRY LAYTEX, WHITE	0.0789	12.01	0.9476	3.00%	0.0284	0.0789	1	0.019
1000387569	DSM DESOLITE 950-200 COATING	0.045	8.76	0.3942	28.50%	0.1123	0.015	1	0.1123
1000396619	PB BLASTER, PENETRATING SOLVENT	0.0082	7.51	0.0618	25.00%	0.0155	0.0915	1	0.0019
1000435398	CAULK, TUB/TILE, CLEAR, DAP 18008	0.0051	8.68	0.0447	4.20%	0.0019	0.0429	1	0.0011
2280183-005	HUMISEAL 1B31 URETHANE COATING	1	7.6	7.6	65.00%	4.94		1	3.8
40001072-000	PAINT, 5 QUART MIXING CONTAINER	6	10.01	60.06	7.80%	4.6847		1	0.6006
40001097-000	GREAT STUFF FOAM SEALANT	0.0419	10.01	0.4199	55.00%	0.2309	0.0749	1	0.042
40001131-000	CLOROX WIPES DISINFECTANTS	2.8	8.35	23.38	5.40%	1.2625	0.07	1	1.169
40007361-000	WM BARR KLEAN STRIP GUN CLEANR	60	6.78	406.8	67.70%	275.4036	5	1	467.82
40008188-000	LOCTITE SI 598 BK GASKET MAKER	1	10.85	10.85	3.31%	0.3591		1	0.0109
40008513-000	W.M. BARR KS BULLDOG BOND FLEX	0.25	7.53	1.8825	82.75%	1.5578		0.25	0.5554
40008989-005	CABLE ASSY, FIBER OPTIC -- SINGLE/MULTI	2	11.18	22.36	3.20%	0.7155		1	0.8944
40009622-000	LOCTITE ECCOBOND MC 723	0.104	12.93	1.3447	3.00%	0.0403	0.0026	1	0.0403
40010343-000	DEFT GRN EPOXY PRIMR 02-GN-084	55	11.39	626.45	24.91%	156.0487	1.25	1	52.747
40010493-000	MICROCARE FIBER CONECTOR CLEAN	0.0964	11.18	1.0778	100.00%	1.0778	0.0241	1	0.0269
40011474-000	BC SUPER BLK TOUCH UP PEN	0.0442	7.33	0.324	62.70%	0.2031	0.0026	1	0.0194
40011474-001	BC SUPER BLK TOUCH UP PEN	0.0598	7.85	0.4694	79.00%	0.3709	0.0026	1	0.4694
40011618-000	MIL-DTL-24441/20 F150 TYPE	2	11.85	23.7	26.89%	6.3729		1	0.474
40012727-000	CLICK BOND CB200-40 STRUCT ADH	0.4346	10	4.346	5.98%	0.2599	0.0106	1	2.1295
40013240-000	HENKEL BONDERITE M-CR T 5900	6	9.12	54.72	0.00%	0	0	1	2.736

40014024-001	LOCTITE 263 THREADLOCKER RED	0.039	9.01	0.3514	0.36%	0.0013	0.013	1	0.0035
40014964-000	STAPLES WHITEBOARD CLEANER	0.125	8.29	1.0363	4.70%	0.0487	0.0625	1	0.0518
7175098-000	PARKER CHO BOND 1038	27	6.68	180.36	90.00%	162.324		1	63.126
7175197-000	LOCTITE STYCAST S 11NC PRIMER	0.0027	6.34	0.0171	14.00%	0.0024	0.0003	1	0.0035
7175358-000	GLYPTAL 1201 RED ENAMEL	3.25	9.91	32.2075	45.00%	14.4934	0.25	0.25	14.4934
7175526-000	PARKER CHO-BOND 1029	1.08	23.49	25.3692	10.82%	2.7449	0.024	1	0.5048
7175883-000	HENTZEN MIL-PRF-22750 TY II CL	7	9.3	65.1	30.10%	19.5951	1	1	14.7843
7181836-000	HUNTSMAN ARATHANE 5753 A/B	2	10.01	20.02	1.00%	0.2002	0.25	1	16.016
7182196-000	LOCTITE 76820 CLEAN UP SOLVENT	1.2878	9.18	11.822	100.00%	11.822	0.0137	1	0.8275
7184173-000	3M SUPER 77 MULTI-PURPOSE SPRY	0.9375	5.82	5.4563	51.00%	2.7827	0.1875	1	0.0546
7190366-000	SIKA SIKAFLEX 252 SEALANT	0.648	9.7	6.2856	4.48%	0.2816	0.081	1	0.3143
7190366-001	SIKA SIKAFLEX 221 SEALANT	1.3413	10.67	14.3117	3.60%	0.5152	0.0789	1	0.1431
7191558-004	TC1 DT20 MED ACRYLIC LACQUER T	25	6.8	170	100.00%	170	5	1	114.75
7192205-000	REMOVER, ADHESIVE - GOOF OFF	1	6.65	6.65	20.00%	1.33	1	0.125	1.5761
7192597-002	DYMAX MULTI-CURE 987 UV CURING	40	8.76	350.4	2.01%	7.043		1	10.512
7192604-000	RUSTOLEUM CLEAR ENAMEL	0.898	7.7	6.9146	100.00%	6.9146	0.0898	1	2.4201
7192625-000	FIBRE GLASS EVERCOAT 416 METAL	2	9.4	18.8	3.40%	0.6392	1	1	3.76
7192649-002	PPG SX320 FAST CLEANER	3	6.34	19.02	100.00%	19.02	1	1	0.1902
7910892-000	NAZDAR ADE52 SCREEN INK BLK	1.25	9.11	11.3875	39.65%	4.5151	0.25	1	1.2071
7911140-000	DOW CORNING 3145 GRAY ADHESIVE	1.9188	9.35	17.9408	3.80%	0.6818	0.0234	1	0.0323
7911140-001	DOW CORNING RTV 3145 CLEAR ADH	2.9484	9.35	27.5675	3.10%	0.8546	0.0234	1	0.0496
7911559-004	DOW CORNING PR1204 RTV PRIMER	0.902	6.68	6.0254	95.50%	5.7542	0.082	1	1.8136
7912239-004	PPG CA 8221/F24052 S/G DRK GRN	2	10.11	20.22	34.70%	7.0163	1	1	5.055
7912239-010	PPG CA 8212/F36231 FLAT GREY	5	10.77	53.85	32.56%	17.5336	1	1	0.5385
7912239-012	PPG CA 8221/F27038 S/G BLK	8	10.35	82.8	38.77%	32.1016	1	1	0.828
7912239-014	PPG CA 8202/F12197 ORANGE	2	10.68	21.36	26.87%	5.7394	1	1	0.7049
7912239-015	PPG CA8221/F27925 WHITE	3	11.1	33.3	36.60%	12.1878	1	1	0.7659
7912239-016	PPG CA 8212/F34088 OLIVE GRN	2	9.18	18.36	44.71%	8.2088	1	1	0.0551
7912239-017	PPG CA 8202/F17925 GLOSS WHT	4	12.94	51.76	19.60%	10.145	1	1	2.588
7912239-018	PRC CA8221/F26307 DESOTHANE HS	3	10.6	31.8	38.01%	12.0872	1	1	0.954
7912239-019	PPG CA 8212/F33445 BEIGE	8	10.17	81.36	34.49%	28.0611	1	1	0.8136
7912239-020	PPG CA 8212/F34094 CAMO GRN	3	9.5	28.5	34.70%	9.8895	1	1	0.0285
7912239-026	PPG CA 8212/F37778 EGGSHELL WH	1	11.02	11.02	37.20%	4.0994	1	1	0.1102
7912239-027	PPG CA 8221/F27886 SEMI WHT	2	11.02	22.04	37.18%	8.1945		1	0.7714
7912239-032	PPG CA 8221/F27875 S/G WHITE	1	11.02	11.02	35.90%	3.9562	1	1	0.3637
7912239-033	PPG CA 8202/F11105 GLOSS RED	2	10.68	21.36	72.98%	15.5885	1	1	0.833
7912239-036	PPG CA8212/F37925	3	11.1	33.3	36.37%	12.1112	1	1	0.333
7912239-040	PPG CA 8212/F30480 CAMO TAN	3	10.6	31.8	38.00%	12.084	1	1	0.0636
7912239-046	PPG CA 8221/F25109 BLUE	2	10.43	20.86	39.27%	8.1917	1	1	1.1682
7912239051	PRC CA8221/F26173 DESOTHANE HS	6	10.35	62.1	33.90%	21.0519	1	1	2.1735
7913987-000	TECHSPRAY TECHFORM TC 533	24	9.6	230.4	20.00%	46.08		1	46.08
7914028-001	HARRIS R5356 TIG ROD	2	1	2	1.00%	0.02	2	1	0.006
7914043-001	LOCTITE 27131	9	18.36	82.62	7.81%	6.4526		2	1.6524
7914043-003	SEALING,LOCKING,RETAINING & BONDING COMP	0.6427	17.52	5.6301	0.19%	0.0107	0.0264	1.0078	0.0563
7914043-004	LOCTITE 24231	0.351	9.18	3.2222	0.56%	0.018	0.0078	1	0.0322
7914043-005	loctite thread blocker	0.143	17.52	1.2527	0.00%	0	0.026	2	0.025
7914043-013	NATIONAL STARCH PERMABOND 910	3	9.1	27.3	1.80%	0.4914		1	2.8665
7914043-016	LOCTITE 414 INSTANT ADHESIVE	17	8.76	148.92	91.90%	136.8575		1	15.6366
7914043-017	LOCTITE 416 INSTANT ADHESIVE	0.0456	8.48	0.3867	87.10%	0.3368	0.0008	1	0.0039
7914054-001	MARKEM IMAJE 7261 BLACK	4	10.22	40.88	86.09%	35.1936		1	2.4528
7914075-000	HUNTSMAN ARATHANE 5750 A/B	1.25	8.03	10.0375	19.80%	1.9874	0.25	1	2.3317
7914533-000	SP&S ULTRALANE THINNER 1	2	7.18	14.36	100.00%	14.36	0	1	8.616
7914750-000	LPS COLD GALVANIZE RUST	0.24	14.69	3.5256	19.09%	0.673	0.06	1	0.3173
7917998-000	HENTZEN MIL-DTL-64159B TY II A	15	10.75	161.25	12.56%	20.253	1.25	1	16.1734
7917998-002	HENTZEN MIL-DTL-64159B TY II A	3.75	10.96	41.1	9.58%	3.9374	1.25	1	0.2795
7918113-000	LOCTITE OUTPUT 384 21087	0.1188	8.35	0.992	26.60%	0.2639	0.0066	1	0.0099
7956459-016	MACDERMID ENTHONE M-0-NC	2	8.01	16.02	21.43%	3.4331		1	3.204
7956991-000	ADHESIVE,POLYCHLOROPRENE BASE, PRES SENS	0.078	6.8	0.5304	66.20%	0.3511		0.0078	0.1088
7958040-000	DUPONT 4817N PASTE	0.1194	11.09	1.3241	35.00%	0.4635	0.0199	1	0.0013
c100923-000	BAUSCHLOMB SIGHT SAVERS LENS	4.2588	7.91	33.6871	40.05%	13.4917	0.0182	1	0.0168
DOD-P-15328	HENTZEN METAL WASH PRIMER A/B	2	7.18	14.36	83.35%	11.9691	2	1	1.4877
MIL-V-173	CHEMSOL MIL-V-173 CLEAR VARNI	0.75	8.34	6.255	38.31%	2.3963		0.25	0.3753
Facilities Purchase 06-2022	K Flex 320 Adhesive	0.075	6.98	0.5235	53.44%	0.28			
					UPDATE SUMS ENTIRE ROW	7266.926			992.166

WASTE SHIPPED Remove from Total VOC Emissions (CLEAN HARBORS)

		Waste Shipped Gal/Yr	Density (Lbs/Gal)	Waste Shipped Lb/Yr	VOC Content % of Waste	VOC Lb/Yr
Misc Paint Calculation@ 38% VOC Average, 10.1 lb/gal average density	Waste Paint Sludge and Solvent (CH86458)	30	10.02	300.00	38.00	228.171
Waste Flammable Liquid (CH6407)	D001,D006,D008,D035,F003,F005		6.67	140.00	100.00	140
RAGS & WIPES (AP332919) (assume 0.5% VOC)	ASSUME 0.5% VOC BY WEIGHT OF SHIPMENT	N/A	N/A	7341.00	0.50	36.705

AEROSOLS (LAB PACK)	AP332917 + LAB PACK AEROSOLS, ASSUME 5% VOC	N/A	N/A	250.00	5.00	12.5
LAB PACK FLAMMABLES FOR INCINERATION (LCCRD)	ASSUME 3% VOC BY WEIGHT OF SHIPMENT		8.35	2810.00	3.00	84.3
Facilities HVAC Line Flush	100% VOC by Weight of Shipment (Rx11, Pro-Flush)				100.00	
CH2186633 (DPM Solvent)	100% VOC by Weight of Shipment (DPM Solvent from 3D Print Lab Bldg. X)			305.00	100.00	305
					TOTAL:	806.68

VOC Net Emissions (lbs/year)	6,460.25	HAP Net Emissions (lbs/year)	992.17	Toluene Net Emissions (lbs/year)	144.73	Xylene Net Emissions (lbs/year)	454.88
AO Limit (lbs/year)	19,080.00	AO Limit (lbs/year)	11,760.00	AO Limit (lbs/year)	3,120.00	AO Limit (lbs/year)	3,040.00

9.54 x 2000 5.88 x 2000 1.56 x 2000 1.52 x 2000

Training Roster

For Documenting Formal and On-the-Job (OJT) Training

Official enrolment lists for scheduled events can be generated from Oracle HCM.
Ask your organizational Training Liaison for assistance or email TrainingHelp.CSW@L3Harris.com

Ensure all affected employees are trained, including employees who are unavailable at this time. Please consider other affected departments/functions/areas.

Class Name: NESHAP HHHHHH (Painter's Certification Training)

Instructor: SCOTT WILSON

Date & Time: 11/19/2020 1500 TO 1545 **Location:** PAINT SHOP

Name (please print)	Signature	Employee ID (PeopleSoft)	Email
Greg Mains	Greg Mains	525505	
Casey Duffin		502475	
SCOTT WILSON	Scott Wilson	502465	

Employee attendance must be recorded in the Learning Management System (LMS) per procedure P-325 using the Oracle HCM Learning system.

Instructors: Sign/date the bottom of the roster and scan/email TrainingHelp.CSW@L3Harris.com

Instructor Signature	Scott Wilson	Date	11/19/2020

every 5 years

Scott Wilson 11/19/2020

NESHAP HHHHHH (6H) PAINTERS CERTIFICATION TRAINING

Instructor: Scott Wilson

All new and existing personnel who apply "spray apply surface coatings" must be trained in the proper application of these coatings.

Spray-applied coating operations means coatings that are applied using a hand-held device that creates an atomized mist of coating and deposits the coating on a substrate. For the purposes of this subpart, spray-applied coatings **do not** include the following materials or activities:

(1) Coatings applied from a hand-held device with a paint cup capacity that is equal to or less than 3.0 fluid ounces (89 cubic centimeters).

(2) Surface coating application using powder coating, hand-held, non-refillable aerosol containers, or non-atomizing application technology, including, but not limited to, paint brushes, rollers, hand wiping, flow coating, dip coating, electrodeposition coating, web coating, coil coating, touch-up markers, or marking pens.

(3) Thermal spray operations (also known as metallizing, flame spray, plasma arc spray, and electric arc spray, among other names) in which solid metallic or non-metallic material is heated to a molten or semi-molten state and propelled to the work piece or substrate by compressed air or other gas, where a bond is produced upon impact.

Training objectives:

1. Discuss with all employees who are required to be trained.
2. Review of:
   - ☑ Spray gun equipment selection
   - ☑ Spray gun set up
   - ☑ Spray gun operation
   - ☑ Measuring coating viscosity
   - ☑ Selecting the proper fluid tip or nozzle
   - ☑ Achieving the proper spray pattern, air pressure, and volume
   - ☑ Fluid delivery rate
3. Review of:
   - ☑ Spray technique for different types of coatings to improve transfer efficiency and minimize coating usage and overspray.
   - ☑ Maintaining the correct spray gun distance and angle to the part, using proper banding and overlap, and reducing lead and lag spraying at the beginning and end of each stroke.
4. Routine spray booth filter and maintenance, including filter selection and installation.

5. Environmental Compliance with the requirements of this program.
   - ☑ Highlighted portions of 6H regulation review for compliance
   - ☑ Hazardous waste disposal
   - ☑ Hex Chrome considerations
   - ☑ Proper PPE
   - ☑ Applicability of paint and solvent usage for company Air Permit requirements
   - ☑ Wastewater generated by paint booth wash down - regulated by city & sampling

Notification of Compliance Status

National Emission Standards for Hazardous Air Pollutants:

Area Source Standards for Plating and Polishing Operations

40 CFR 63 subpart WWWWWW

Section 1. Facility Information

Date of Notification of Compliance Status: January 30, 2023

Compliance Date: ☒ Existing source: July 1, 2010 ☐ New source: _____ (Date of startup)

Company name: L3 Technologies, Inc. Communication Systems - West

Facility name (if different): _____

Facility (physical location) address: 640 North 2200 West, Salt Lake City, Utah 84116

Owner name/title: L3 Technologies, Inc. Communication Systems - West

Owner/company address: (same as above)

Owner telephone number: 801-594-2000

Owner email address (if available): _____

Is the Operator the same person as the Owner? Yes ☒ No ☐

If the Operator information is different from the Owner, please provide the following:

Operator name/title: _____

Operator telephone number: _____

Operator email address (if available): _____

[a] This is an example of the type of information that must be submitted to fulfill the Notification of Compliance Status requirement of 40 CFR 63, subpart WWWWWW. You may submit the information in another form or format, or you /may use this form.

Section 2. Identification of Affected Operations

(1) The following are the operations at this facility subject to subpart WWWWWW (check all that apply):[b]

Electroplating (noncyanide)	☐
Continuous electroplating (noncyanide)	☐
Short-term electroplating (noncyanide)	☐
Electropolishing	☐
Electroforming	☐
Electroplating (cyanide)	☐
Electroless nickel	☐
Chrome conversion coating	☒
Other electroless plating/coating/dipping	☐
Thermal spraying (permanent line)	☐
Thermal spraying (temporary, in-situ)	☐
Dry mechanical polishing	☐

[b] ***Important Note:*** *These operations are affected sources under subpart WWWWWW* ***only if/when*** *they use materials that contain or have the potential to emit Plating and Polishing metal HAP. Plating and Polishing* ***HAP containing/potential*** *is defined to be when the compounds of cadmium, chromium, lead, manganese, and nickel, or any of these metals in the elemental form with the exception of lead, are used or have the potential to be emitted in quantities of 0.1 percent or more, or 1.0 percent or more for elemental or compounds of manganese.*

(2) The following table lists the compliance methods used on each affected tank process at this facility, noted previously in item (1) in Section 2:

Tank Process Description/ID No.	HAP Emitted or Used (Cd, Cr, Pb, Mn, Ni)	Compliance Method(s) (Check all that apply)
Alodine® Tank located in Building D	Cr	☐ Wetting agent/fume suppressant ☒ Vented to a control device; describe: the tanks are vented through the roof ☒ Tank cover ☒ Time limit (short-term plating only) ☒ Management practices
		☐ Wetting agent/fume suppressant ☐ Vented to a control device describe:_____ ☐ Tank cover ☐ Time limit (short-term plating only) ☐ Management practices
		☐ Wetting agent/fume suppressant ☐ Vented to a control device; describe:_____ ☐ Tank cover ☐ Time limit (short-term plating only) ☐ Management practices
		☐ Wetting agent/fume suppressant ☐ Vented to a control device; describe:_____ ☐ Tank cover ☐ Time limit (short-term plating only) ☐ Management practices
		☐ Wetting agent/fume suppressant ☐ Vented to a control device; describe:_____ ☐ Tank cover ☐ Time limit (short-term plating only) ☐ Management practices
		☐ Wetting agent/fume suppressant ☐ Vented to a control device; describe:_____ ☐ Tank cover ☐ Time limit (short-term plating only) ☐ Management practices
		☐ Wetting agent/fume suppressant ☐ Vented to a control device; describe:_____ ☐ Tank cover ☐ Time limit (short-term plating only) ☐ Management practices

Tank Process Description/ID No.	HAP Emitted or Used (Cd, Cr, Pb, Mn, Ni)	Compliance Method(s) (Check all that apply)
(continued)		
		☐ Wetting agent/fume suppressant ☐ Vented to a control device; describe:_____ ☐ Tank cover ☐ Time limit (short-term plating only) ☐ Management practices
		☐ Wetting agent/fume suppressant ☐ Vented to a control device; describe:_____ ☐ Tank cover ☐ Time limit (short-term plating only) ☐ Management practices
		☐ Wetting agent/fume suppressant ☐ Vented to a control device; describe:_____ ☐ Tank cover ☐ Time limit (short-term plating only) ☐ Management practices
		☐ Wetting agent/fume suppressant ☐ Vented to a control device; describe:_____ ☐ Tank cover ☐ Time limit (short-term plating only) ☐ Management practices
		☐ Wetting agent/fume suppressant ☐ Vented to a control device; describe:_____ ☐ Tank cover ☐ Time limit (short-term plating only) ☐ Management practices
		☐ Wetting agent/fume suppressant ☐ Vented to a control device; describe:_____ ☐ Tank cover ☐ Time limit (short-term plating only) ☐ Management practices
		☐ Wetting agent/fume suppressant ☐ Vented to a control device; describe:_____ ☐ Tank cover ☐ Time limit (short-term plating only) ☐ Management practices

(3) The following table lists each affected thermal spraying booths/lines (temporary and permanent), and dry mechanical polishing processes subject to subpart WWWWWW, noted previously in item (1) in Section 2:

Thermal Spray Booth/Line or Dry Mechanical Polishing Description/ID No.	HAP Emitted or Used (Cd, Cr, Pb, Mn, Ni)	Compliance Method(s) (Check all that apply)
		☐ Vented to a control device; describe:_____ ☐ Management practices (temporary thermal spraying only)
		☐ Vented to a control device; describe:_____ ☐ Management practices (temporary thermal spraying only)
		☐ Vented to a control device; describe:_____ ☐ Management practices (temporary thermal spraying only)
		☐ Vented to a control device; describe:_____ ☐ Management practices (temporary thermal spraying only)
		☐ Vented to a control device; describe:_____ ☐ Management practices (temporary thermal spraying only)
		☐ Vented to a control device; describe:_____ ☐ Management practices (temporary thermal spraying only)
		☐ Vented to a control device; describe:_____ ☐ Management practices (temporary thermal spraying only)
		☐ Vented to a control device; describe:_____ ☐ Management practices (temporary thermal spraying only)
		☐ Vented to a control device; describe:_____ ☐ Management practices (temporary thermal spraying only)
		☐ Vented to a control device; describe:_____ ☐ Management practices (temporary thermal spraying only)

(5) The following applicable management practices are used at this facility, as practicable:

☒ Minimize bath agitation when removing any parts processed in the tank, as practicable except when necessary to meet part quality requirements.

☒ Maximize the draining of bath solution back into the tank, as practicable, by extending drip time when removing parts from the tank; using drain boards (also known as drip shields); or withdrawing parts slowly from the tank, as practicable.

☒ Optimize the design of barrels, racks, and parts to minimize dragout of bath solution (such as by using slotted barrels and tilted racks, or by designing parts with flow-through holes to allow the tank solution to drip back into the tank), as practicable.

☒ Use tank covers, if already owned and available at the facility, whenever practicable.

☒ Minimize or reduce heating of process tanks, as practicable (e.g., when doing so would not interrupt production or adversely affect part quality).

☒ Perform regular repair, maintenance, and preventive maintenance of racks, barrels, and other equipment associated with affected sources, as practicable.

☒ Minimize bath contamination, such as through the prevention or quick recovery of dropped parts, use of distilled/de-ionized water, water filtration, pre-cleaning of parts to be plated, and thorough rinsing of pre-treated parts to be plated, as practicable.

☒ Maintain quality control of chemicals, and chemical and other bath ingredient concentrations in the tanks, as practicable.

☒ Perform general good housekeeping, such as regular sweeping or vacuuming, if needed, and periodic washdowns, as practicable.

☒ Minimize spills and overflow of tanks, as practicable.

☐ Use squeegee rolls in continuous or reel-to-reel plating tanks, as practicable.

☒ Perform regular inspections to identify leaks and other opportunities for pollution prevention.

Section 3. Certification of Compliance Status

☒ Yes, the facility referenced below **IS** operating in compliance with all of the relevant standards and other requirements of 40 CFR Part 63 subpart WWWWWW, National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations

☐ No, the facility referenced below is **NOT** operating in compliance with all of the relevant standards and other requirements of 40 CFR Part 63 subpart WWWWWW, National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations

Reason for noncompliance:

_____

_____

I hereby certify that the information presented herein is correct to the best of my knowledge.

Brad Theurer
(Signature)

January 30, 2023
(Date)

Brad Theurer – Senior Manager, EHS
(Name/title)

(801) 594-3475
(Telephone No.)

Section 4. Submittal

Submit the Notification of Compliance Status to one of the following offices, as appropriate:

a. If your State has been delegated the authority for this regulation under section 112(l) of the Clean Air Act[c], submit the notification to your State agency found at the following link: http://www.epa.gov/ttn/atw/area/table_state_contacts.doc

If your state/local contact is not listed at the above link, use this link: http://www.4cleanair.org/contactUsaLevel.asp

b. If your EPA Region has assumed the authority for this rule, submit the notification to your Regional Office of the EPA, from list below:

EPA Region I (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont)
5 Post Office Square, Suite 100, Mail code: OES04-2, Boston MA 02109-3912 Attention: Air Clerk

EPA Region II (New Jersey, New York, Puerto Rico, Virgin Islands),
Director, Division of Enforcement and Compliance Assistance
290 Broadway, New York, NY 10007-1866

EPA Region III (Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, West Virginia)
Director, Air Protection Division, 1650 Arch Street, Philadelphia, PA 19103

EPA Region IV (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee)
Director, Air, Pesticides and Toxics Management Division
Atlanta Federal Center, 61 Forsyth Street, Atlanta, GA 30303–3104

EPA Region V (Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin)
Director, Air and Radiation Division, 77 West Jackson Blvd., Chicago, IL 60604–3507

EPA Region VI (Arkansas, Louisiana, New Mexico, Oklahoma, Texas)
Director, Air, Pesticides and Toxics, 1445 Ross Avenue, Dallas, TX 75202–2733

EPA Region VII (Iowa, Kansas, Missouri, Nebraska)
Director, Air and Waste Management Division, U.S. Environmental Protection Agency
901 N. 5th Street, Kansas City, KS 66101

EPA Region VIII (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming)
Director, Air and Toxics Technical Enforcement Program, Office of Enforcement, Compliance and Environmental Justice, 1595 Wynkoop Street, Denver, CO 80202-1129

EPA Region IX (Arizona, California, Hawaii, Nevada, American Samoa, Guam)
Director, Air and Toxics Division, 75 Hawthorne Street, San Francisco, CA 94105

EPA Region X (Alaska, Idaho, Oregon, Washington)
Director, Office of Air, Waste and Toxics, 1200 6th Ave., Suite 900, AWT-107, Seattle, WA 98101

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[c] To determine whether your State has been delegated the authority for this regulation under section 112(l) of the Clean Air Act, contact your EPA Regional Office, listed above.