# HANFORD TANK WASTE TREATMENT AND

# **IMMOBILIZATION PLANT**



# BIDDER REQUEST FOR INTEREST & PRE-QUALIFICATION PACKAGE

#### OFFICIAL USE ONLY (when completed)

May be exempt from public release under the Freedom of Information Act (5 U.S.C. 552), exemption number and category: 4.

Commercial/Proprietary

Department of Energy Review required before public release

Name/Org: Jose Velasquez/ P&S

Guidance (if applicable): N/A

Requisition No. 24590-QL-MRA-MKE0-TBD1

# Melter Wet Electrostatic Precipitator (WESP)

COMPANY NAME:	
COMPANY NAME:	



### 1.0 Introduction

Bechtel National Inc., herein referred to as Contractor, intends to issue a Request for Proposal (RFP) for Permanent Plant Equiment - **Wet Electrostatic Precipitators and Power Supplies, [Qty. 2 each]** for the Hanford Waste Treatment and Immobilization Plant (WTP) project in Richland, WA. Companies must be <u>pre-qualified</u> by Contractor to be included on the bid list. To support the pre-qualification evaluation process, the prime potential bidder (1st tier subcontractor) must provide the requested information and respond to questions within this document. The Experience Statement should include relevant information for both the prime bidder and any planned lower-tier supplier or subcontractor. Additional supporting documentation such as brochures and company profiles may also be submitted.

\*Please note that additional supporting documentation will be required as part of the formal RFP process.

### 2.0 Project Description and Location

The Hanford Tank Waste Treatment and Immobilization Plant (WTP) is a complex of radioactive waste treatment processing facilities designed and constructed by Bechtel National, Inc. for the Department of Energy (DOE). The facility will process the Hanford Site tank waste and convert the waste into a stable glass form.

The Project site is located in the 200 East Area of the Hanford Reservation near Richland, Washington, along the Columbia River. The site elevation varies from 662 to 684 feet above mean sea level. Ambient temperature range is -23 degrees F minimum to 113 degrees F maximum, with relative humidity of 5% minimum to 100% maximum. The project design life is 40 years.

Information about the WTP Project can be found on <a href="http://www.hanfordvitplant.com">http://www.hanfordvitplant.com</a>.

### 3.0 Scope of Work

Requisition Number: 24590-QL-MRA-MKE0-TBD1

Quality Level: QL

Award Type: Fixed Price with Economic Price Adjustment

Estimated RFP Date: March 2026

The goal of posting Request for Interest (RFI) document packages online in advance of the anticipated solicitation date is to proactively engage Suppliers that may intend to bid on the scope of work outlined in this request. The WTP project intends to produce specifications and requirements documents for procurement award that closely align with standard commercial applications, for those items that do not have a nuclear safety function. WTP encourages feedback from interested Suppliers relative to things that can reduce delivery duration, item complexity, and unplanned costs from awarded value (examples: Document submittals that are in excess of what would normally be required for commercial application, special tests that duplicate available data, excessive oversight, size of requirements document set, and conflicts in specifications).

For components that have a nuclear safety function, WTP intends to consider both Suppliers with NQA-1-2022 programs and Suppliers that have other QA programs (example: ISO 9001). For cases in which Supplier is not NQA-1 compliant, WTP will provide required testing, oversight, and source verification to demonstrate compliance with NQA-1-2022.

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### **BIDDER REQUEST FOR INTEREST & PREQUALIFICATION**

### **CRITERIA AND RESPONSE**

We encourage interested Suppliers to contact WTP (per website contact info/directions) to set up meetings with WTP engineering and procurement staff to ask questions, discuss areas that could be adjusted to simplify the procurement process, resulting in a fit for purpose specification that aligns with what the supply chain produces (buy what they make) and recommendations for how best to develop a mutually beneficial collaborative partnership.

3.1 Design and Fabricate two Wet Electrostatic Precipitator (WESP) vessels for use in the High Level Waste (HLW) facility at WTP. The WESP vessels are used on the melter offgas treatment system, downstream of submerged bed scrubbers, to remove radioactive particulate and aerosols as described in the mechanical datasheet.

#### The WESP consists of:

- · Vessel with a support skirt, mounting rings and anchor chairs
- Collector Surface and supports
- Discharge electrodes and supports
- Offgas distribution plate
- Internal flush water piping and distribution manifold
- High voltage insulators and housings including leads, and bushings
- Required nozzles
- HVAC Bib in exterior shell
- 3.2 The Buyer has designed the vessel body to meet ASME VIII, Division 1 requirements, which are provided in design proposal drawings (DPDs), shown in Attachment A. The internals of the vessel are conceptually modeled but the final design is requested from the Buyer. The WESP shall be floor mounted, using a circular support ring beam, to be designed by the vendor.
- 3.3 The vessels skirt and body will be installed in a space that has been designated as black-cell and hard-to-reach. The vessel head will be accessible through 15 x 14.7 foot shield plate. Internals of the vessel shall be designed to be removable through semi-remote means by removing the vessel head and lifting internals out with a tower crane or heavy lift crane.

#### **Equipment and Materials Required**

Work to include (but is not be limited to):

- Purchase of material and fabrication of two (2) WESP vessels
- Documentation services as necessary
- Enhanced factory acceptance testing to validate particulate removal efficiency and determine recommended parameters for washing vessel internals and insualator purge air rates and temperature
- Provide special equipment and tooling for installation/and or maintenance of the vessels
- Provide maintenance plan for replacement of vessel internals
- Provide startup procedures and testing recommendations
- ASME Section VIII, Division 1, UG-120 code analysis of vessel
- Pressure vessels U-stamped and registered with the National Board Inspection Code (NBIC)



#### Documentation:

Documentation including drawings, procedures, calculations shall be reviewed and concurred to by the Buyer prior to starting fabrication or tests, at specified hold points that will be identified in the material requisition (MR):

### Documentation is to include (but not be limited to):

- All drawings and technical documents must be checked and signed off. Drawings include bill of materials, weld symbols, NDE for each weld, shop detail drawings. Locations of center of gravity, in all three directions
- Welding procedure specifications per ASME Section IX
- Procedures for storage and control of weld filler material shall be described in detail the procurement, receipt, storage, and dispersal (traceability) of fill material
- Postweld heat treatment procedures including cleaning requirements, heating and cooling rates, thermocouple locations, and type of heating equipment
- For repair of weld either the original welding procedure specification (WPS) or one submitted as a designated repair WPS shall be used
- Repair plans that use welding for repairs of welds or base metals
- NDE procedures, including visual examinations, radiographic, liquid penetrant examination (etc.) meeting the requirements of ASME Sections V & VIII
- Test and inspection records and work plan
- All record pertaining to NDE, base materials, filler materials, fabrication and inspection shall be traceable to the area and part inspected
- Pressure testing reports
- Mechanical test reports
- Inspection and verification reports
- Test results for software
- Installation instruction manuals
- User manuals
- Storage and handling requirements
- Certificates of conformance
- Material certificates of compliance
- Records of positive material identification (PMI)

#### Optional:

- 3.4 The Buyer may supply two (2) vessel bodies for repair and re-work to bring into compliance with the new design. See Attachments B and C for details on existing vessel bodies and known non-conformances on the vessel body that require adjudication for use.
- **3.5** Additional Work may include or be subcontracted\*:
  - Design, fabricate, assemble, and test two high voltate (HV) DC, pulse-width modulated (PWM), power supply units including ancillary equipment for energizing WESPs.

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Control equipment, all controls and functions required for safe, reliable and continuous operation of the
precipitator, its power supplies and ancillary equipment provided by the Seller. Seller shall provide the
necessary hardware and software to integrate the controls into Buyer's integrated network (ICN).

\*Note: For factory acceptance testing of the WESPs the Power Supplies are required, the Seller shall coordinate with subcontractors so that testing can be completed.

#### Power Supply and Control equipment includes but is not limited to:

- Transformers
- Rectifiers
- Current-limiting reactors (if required)
- Seller designed and supplied high voltage DC cables from the WESP vessel to the power supply. High
  voltage DC terminators at both ends, and DC circuit return path equipment
- Fully metal-enclosured high voltage termination housing surrounding the high voltage DC busings on the WESP vessel
- Control equipment, all controls and functions required for safe reliable and continuous operation of the precipitator, its power supplies and anciliarry equipment provided by Seller. Seller shall provide the necessary hardware and software to integrate the controls into Buyer's integrated control network (ICN).

#### 3.6 Codes

#### The following Codes and Standards shall be adhered to for design and fabrication of WESP vessels:

- AISC N690, 1994, Specification for the Design, Fabrication, and Erection of Steel Safety-Related Structures for Nuclear Facilities
- ANSI/ISA-7.0.01, Quality Standards for Air Instruments
- ASME Boiler and Pressure Vessel Code Section II, Material, American Society of Mechanical Engineers
- ASME Boiler and Pressure Vessel Code Section V, Nondestructive Examination, American Society of Mechanical Engineers
- ASME Boiler and Pressure Vessel Code Section VIII, Division I, Rules for Construction of Pressure Vessels, American Society of Mechanical Engineers
- ASME Section IX, Boiler and Pressure Vessel Code, Welding, Brazing, and Fusing Qualifications ASME B31.3, Process Piping, 1996<sup>1</sup>, American Society of Mechanical Engineers [<sup>1</sup>1996 for design, latest edition for fabrication and procurement

### 3.7 Codes

# The following Codes and Standards shall be adhered to for design and fabrication of WESP Power Supplies and Control Equipment:

- National Fire Protection Association (NFPA) NFPA 70 (2023), National Electrical Code, Article 250, Grounding
- NEMA 250, Enclosures for Electrical Equipment (1000 Volts Maximum)

#### 3.8 Standards

- IEEE 519, IEEE Recommended Practices and Requirements for Harmonic Control in Electrical Power Systems
- NEMA ICS 1 Industrial Control and Systems General Requirements
- UL, Underwriters Laboratories

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- UL 94, Standard for Safety, Test for Flammability of Plastic Material for Parts in Devices and Appliances
- UL 508, Standard for Safety Electrical Industrial Control Equipment
- UL 1072, Standard for Safety Medium-Voltage Power Cables

Please note that this solicitation may result in material procurements and proposals greater than \$10,000 and must comply with FAR 52.225-11 Buy American Act – Construction Materials Under Trade Agreements (SEP 2010). If you cannot comply or foresee any issues with compliance, please provide a detailed explanation.

If your company is **interested** in this solicitation, see **Section 4.0** and complete the sections as requested. The BNI Acquisition Services Purchasing group is responsible for collection, evaluation, and internal publication of potential bidders' information for the purpose of pre-qualification for all solicitations.

Submission Due Date: 8/2	9/2025			
Submission Method: Sub Representative, Andrea Ris				
Pre-Selection Company Response	<u>riteria</u>			
Prime Subcontractor Com	oany Name:			
Address:	-			
Pre-qualification Contact N	lame: _			
Phone Number:	-			
E-mail Address:	-			
DUNS No. (Dun & Bradstr	eet):			
	lassification System	,	for this work is 2224	
North American Industry C The NAICS ( <b>North Americ</b> size standard for this code your company's employee	is 500 employees.	For pre-qualification pur		

24590-WTP-GPP-RAPS-PS-3005

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5.3

# BIDDER REQUEST FOR INTEREST & PREQUALIFICATION CRITERIA AND RESPONSE

	─────────────────────────────────────
	HUBZone Business
	☐ Veteran-Owned Small Business Concern
	Service-Disabled Veteran-Owned Small Business Concern.
	□ N/A – Registered as a Large Business
Progr	ty Assurance Requirements Program rammatic Quality Assurance (QA) requirements for subcontracts or purchase orders performed in the Jobsite will be:
	Non-Permanent or Temporary Work - Generally no QA program required Commercial Quality - Based on DOE Order 414.1C Nuclear Level Quality - Based on ASME NQA-1 2022
Α.	Does your Company have a written Quality Assurance Program?
	□Yes □ No
В.	Which QA standards does this program meet?
	□ DOE/RW/0333P □ ASME NQA-1 □ ASME Section VIII □ ISO-9000 □ Other
	If selected "other" above, please furnish a copy of its QA Program Table of Contents and a brief nary identifying each of the requirements listed below. The level of rigor applied to the elements shall emmensurate with the risks associated with the Work.
	<ul> <li>A description of the organizational structure, functional responsibilities, levels of authority, and interfaces for those managing, performing, and assessing the Work.</li> </ul>
	Personnel Training and Qualifications
	Quality Improvement
	Control of Documents and Records
	Work Processes
	Design
	Procurement

Control of the Testing Equipment

Product Identification and Traceability
Inspection and Acceptance Testing

Control of Non-Conforming Product

Corrective and Preventative Actions

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- Handling, Storage and Shipping Procedures
- Management Assessment

	Independent Assessment
 D.	Your company has the option to submit their full Quality Assurance Plan with this interest.
Com	mercial Data
	ntial bidders <b>are required</b> to register on the <b>Bechtel Supplier and Contractor Portal:</b> s://www.Bechtel.com/supplier/ in order to be considered.
Date	your company registered or updated its information on the Portal?
	Date Updated:
A.	Rough Order of Magnitude for Scope of Work (USD): \$
В.	Estimated Delivery Schedule:
	i. Engineering/Design: weeks ii. Material Procurement: weeks iii. Fabrication: weeks iv. Delivery: weeks
C.	Long lead items to be aware of? (if yes, please specify)
—— D. I	
	Does your company have a suggested alternate offering/product that offers an improvement, is most effective, or offers shorter delivery (i.e. "buy what you make")?  No, we will supply an identical or similar product.  Yes, we have an alternate offering. <b>DESCRIPTION OF ALTERNATE</b> :
E. \	cost effective, or offers shorter delivery (i.e. "buy what you make")?  No, we will supply an identical or similar product.  Yes, we have an alternate offering. DESCRIPTION OF ALTERNATE:  What risks do you foresee with this procurement that BNI should be aware of and possi
E. \ r -	No, we will supply an identical or similar product.  Yes, we have an alternate offering. DESCRIPTION OF ALTERNATE:  What risks do you foresee with this procurement that BNI should be aware of and possimitigate?
E. \ r -	cost effective, or offers shorter delivery (i.e. "buy what you make")?  No, we will supply an identical or similar product.  Yes, we have an alternate offering. DESCRIPTION OF ALTERNATE:  What risks do you foresee with this procurement that BNI should be aware of and possi
E. \r r - Tech	□ No, we will supply an identical or similar product. □ Yes, we have an alternate offering. <b>DESCRIPTION OF ALTERNATE</b> : □ What risks do you foresee with this procurement that BNI should be aware of and possimitigate?

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Qu	estion 1: Do you have experience designing ASME VIII, Division 1 vessels?
	Yes No
Exp	planation:
	estion 2: Can you perform NDE of vessels and piping designed in accordance with ASME ndards?
	Yes
Exp	planation:
Qu	estion 3: Do you have experience designing wet electrostatic precipitators?
	Yes No
Exp	planation:
	estion 4: Can you perform NDE of vessels and piping designed in accordance with ASME ndards?
	Yes No
	planation:
	estion 5: Do you excel in modular design of equipment?
	Yes No
	planation:

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F.	Question 6: Do you have experience performing advanced factory acceptance tests?  Yes No  Explanation:
Technic	cal Criteria <b>Section 3.4</b>
G.	Question 1: Is your preference to repair existing vessels to re-use?  Yes No  Explanation:
Н.	Question 2: Is your preference to source vessel material and build new?  Yes No  Explanation:
	Technical Criteria Section 3.5
I.	Question 1: Do you have the capability to design Power Supplies?  Yes No  Explanation:
J.	Question 2: Will power supply design be subcontracted?  Yes No

COMPANY NAME:
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	Explanation:
K.	Question 3: Do you have the capability to design control equipment?
	☐ Yes ☐ No
	Explanation:
L.	Question 4: Will power supply design be subcontracted?
	☐ Yes ☐ No
	Explanation:
M.	Question 5: Is it the Suppliers preference to have WTP subcontract this work to other suppliers?
	☐ Yes ☐ No
	Explanation:
N.	Direct Relevant Experience Documentation: If Respondent has answered "yes" to the
	questions above, provide a reference list of example projects over the last ten years, on the included Experience Statement, that demonstrate direct relevant project experience to support each "yes" response. Example projects should be detailed as to both the technical scope of the project and your participation in the project.
Column compl	etion notes for the below, Experience Statement, to be completed by the Prime contractor:
A. Customer Na	me, Address, Contact Name and Phone No So that we may contact as a reference as needed.
B. Work Descrip	otion and Location- Describe work scope and location, and then indicate if prime or subcontract.
C. Original/ Fina	al Contract Value- Original award value and final closeout contract value.
D. Commencer	nent/ Completion Dates- Provide starting date and actual completion (or forecast if still in progress)

COMPANY NAME:	
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by month/year format (e.g., Jan 2006/Sept 2007)

Customer Name, Address, Contact Name and Phone No.	Work Description and Location	Original/Final Contract Values	Commence/ Complete Dates
6.0 Pre-Qualification	6.0 Pre-Qualification Document Checklist		

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☐ Direct Relevant Experience Documentation (included in this document or provided as attachment)

Companies are encouraged to use this checklist to ensure their submittal is complete.

☐ Interest & Prequalification Criteria and Response Package (this document)

Additional supporting documentation such as brochures and company profiles.

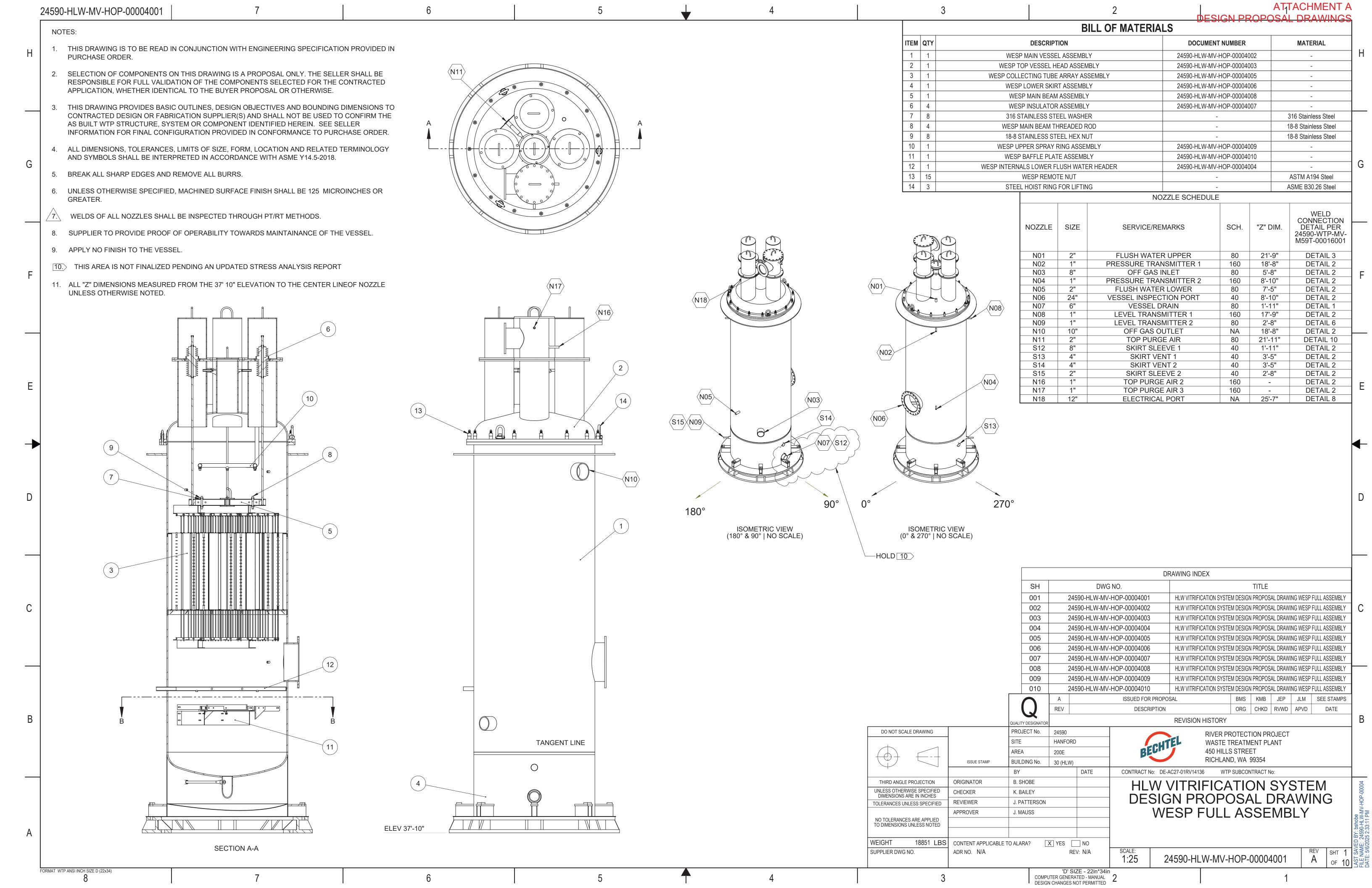
QA Program Table of Contents and summary *or* a copy of QA Plan

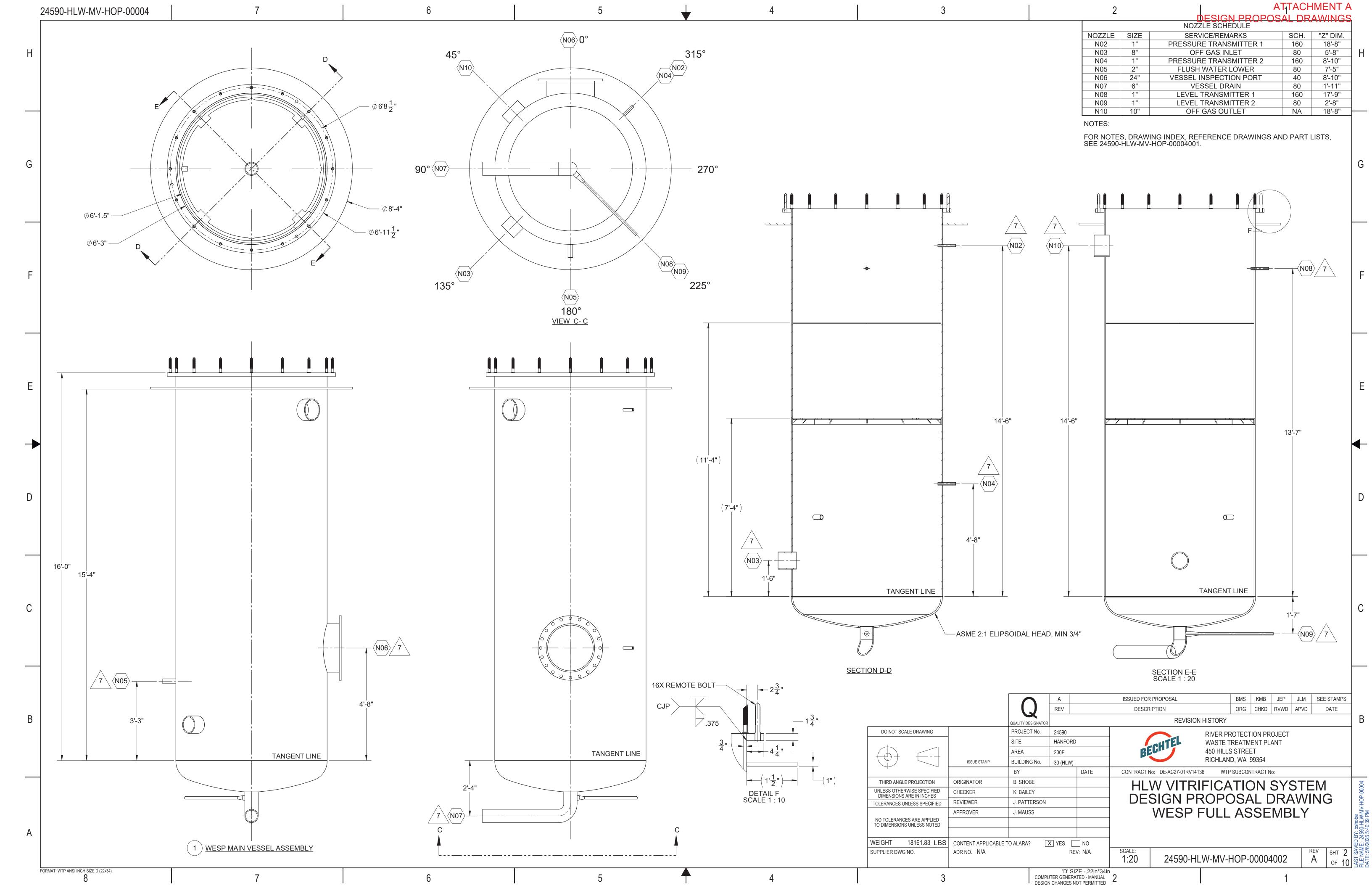
Responses to **TECHNICAL CRITERIA Section 5.5** 

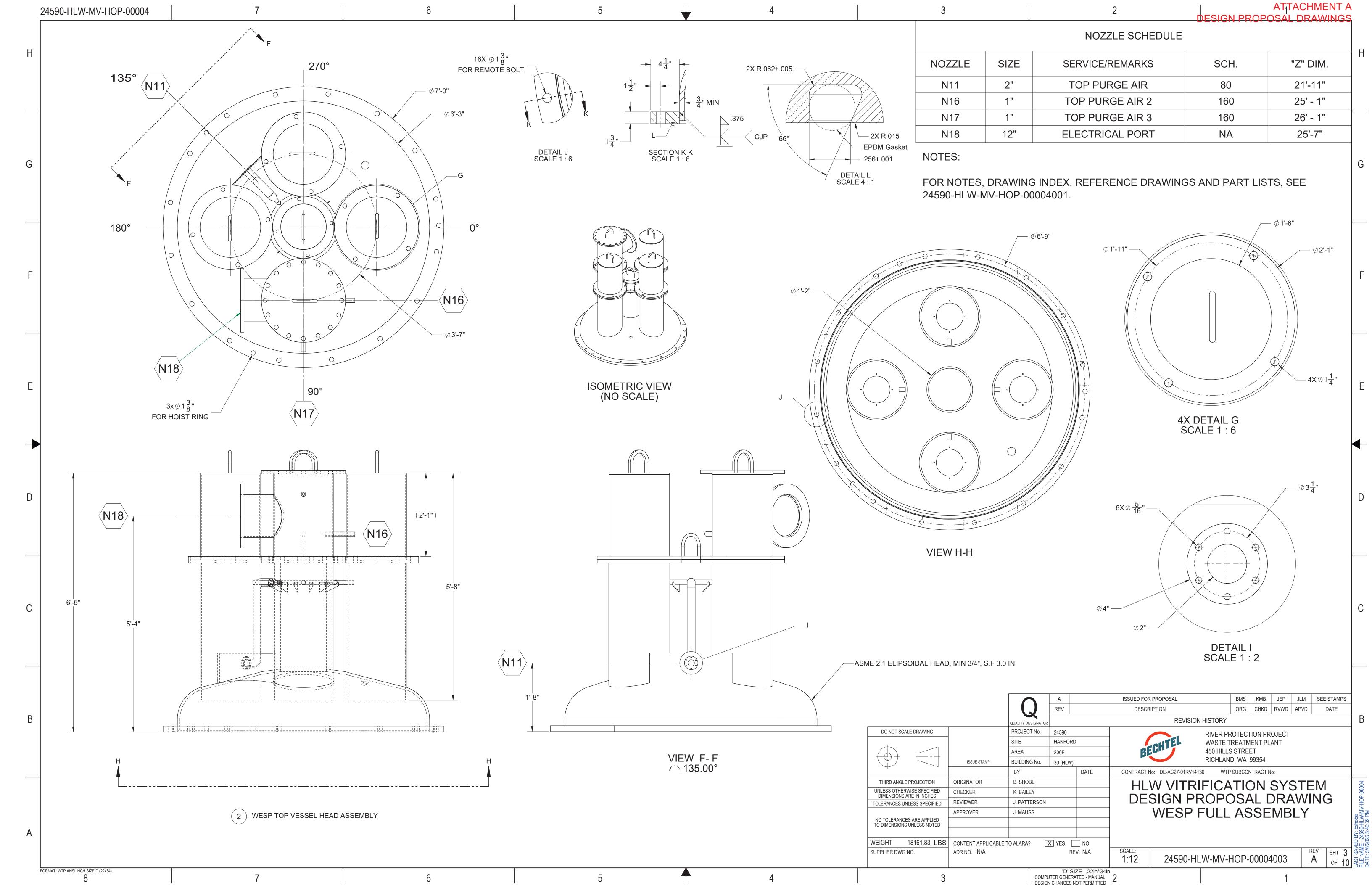
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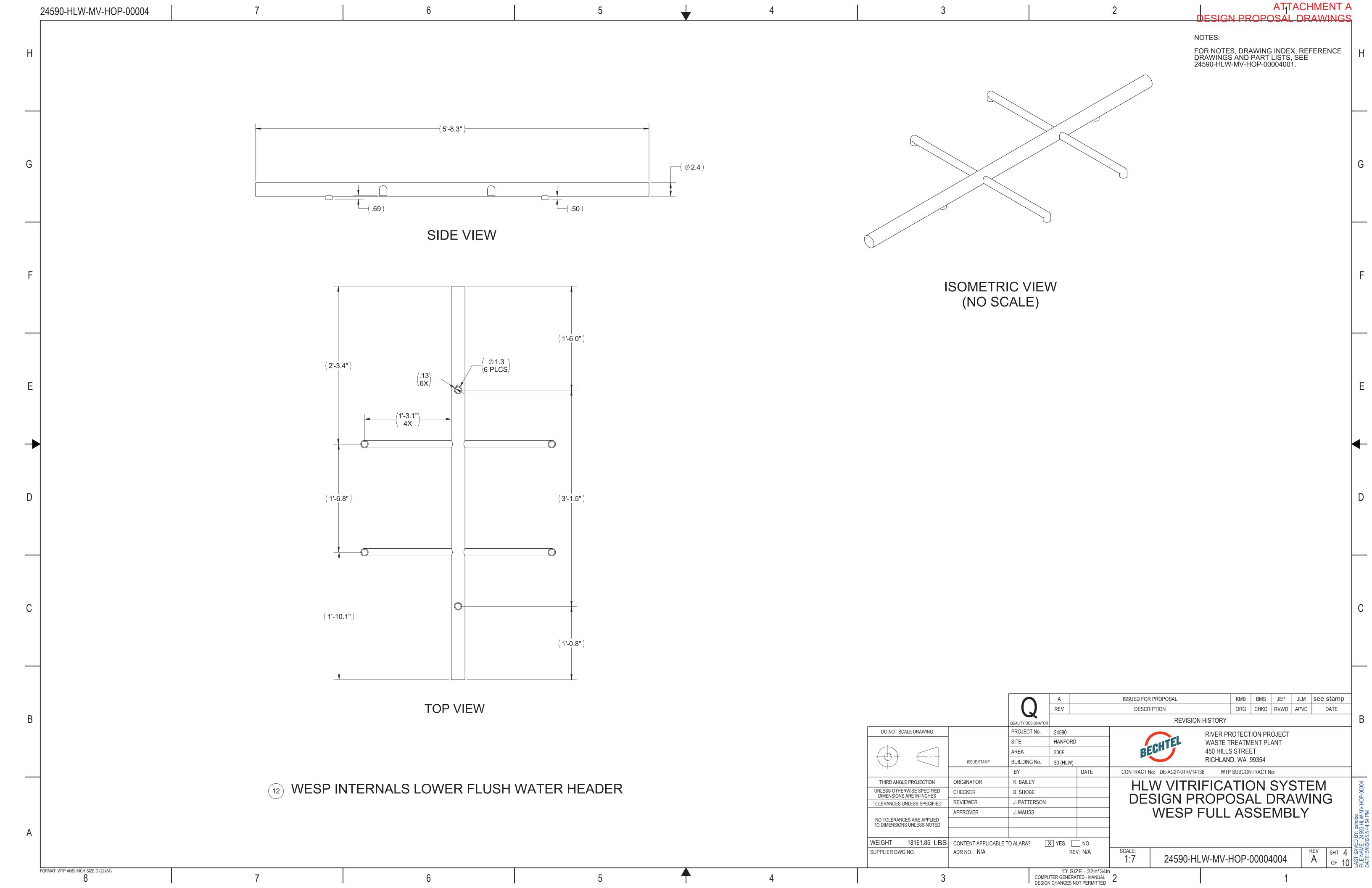
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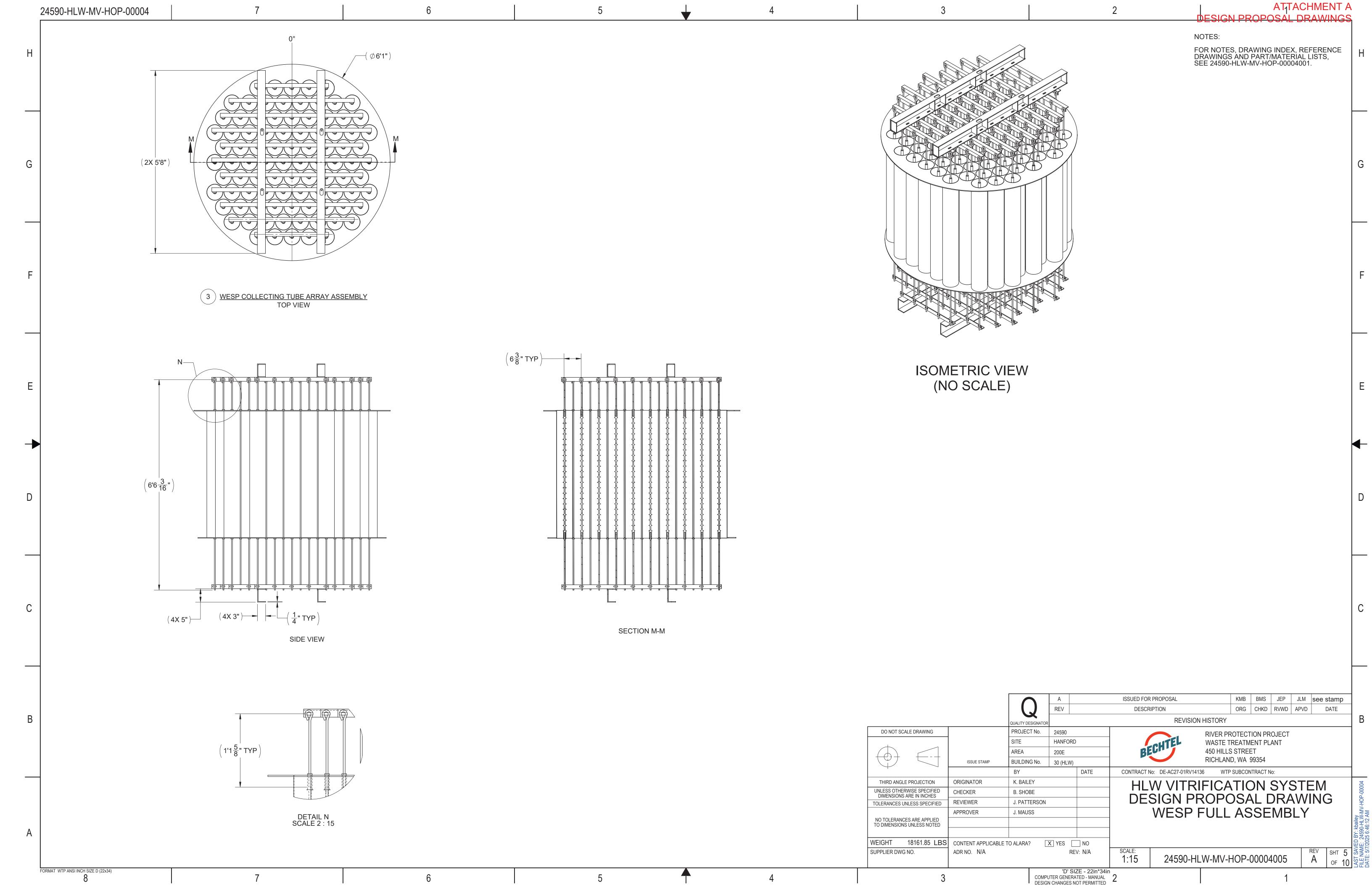
(24590-PS00152, Rev. 07) Page 13 of 13

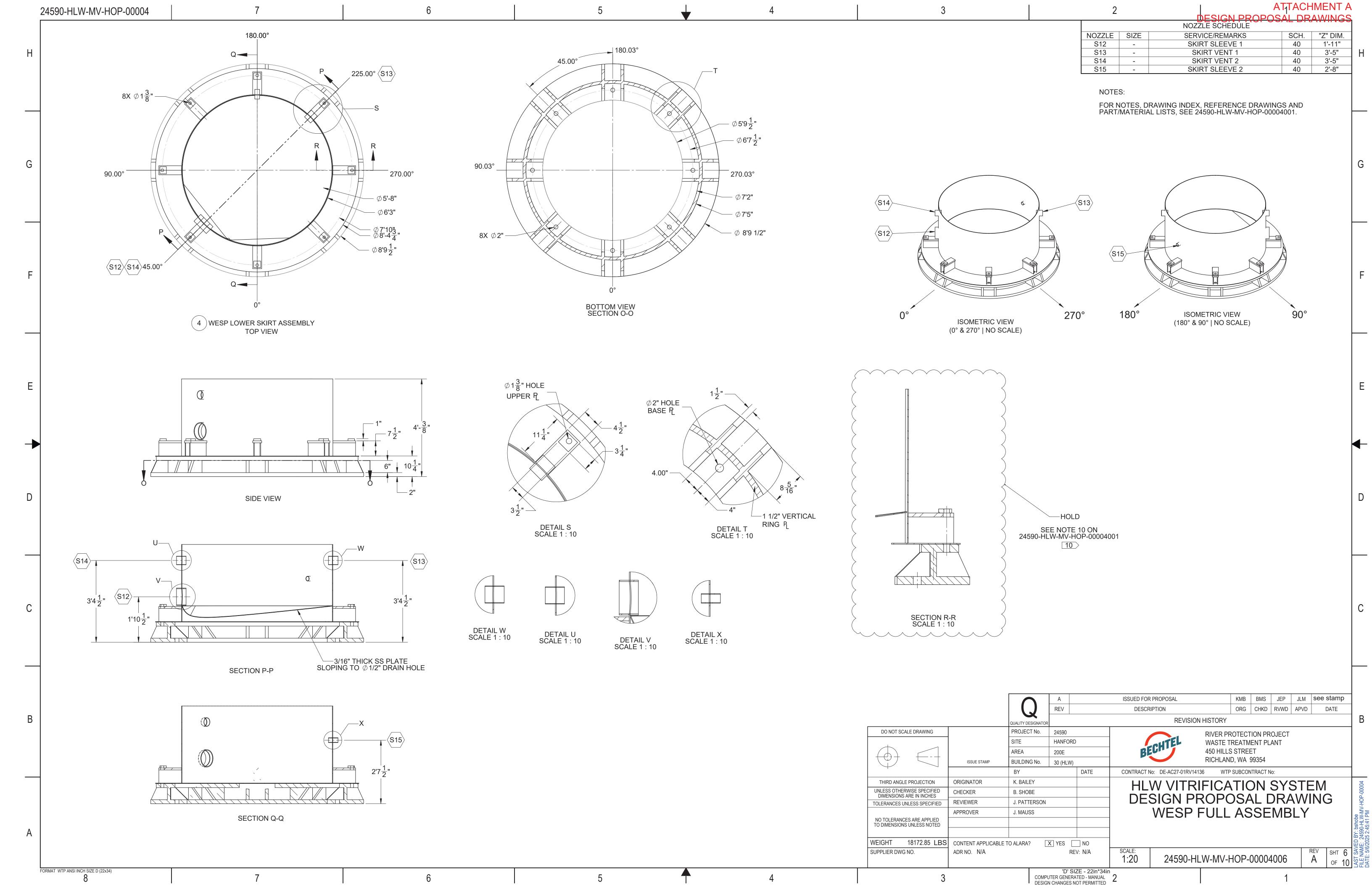


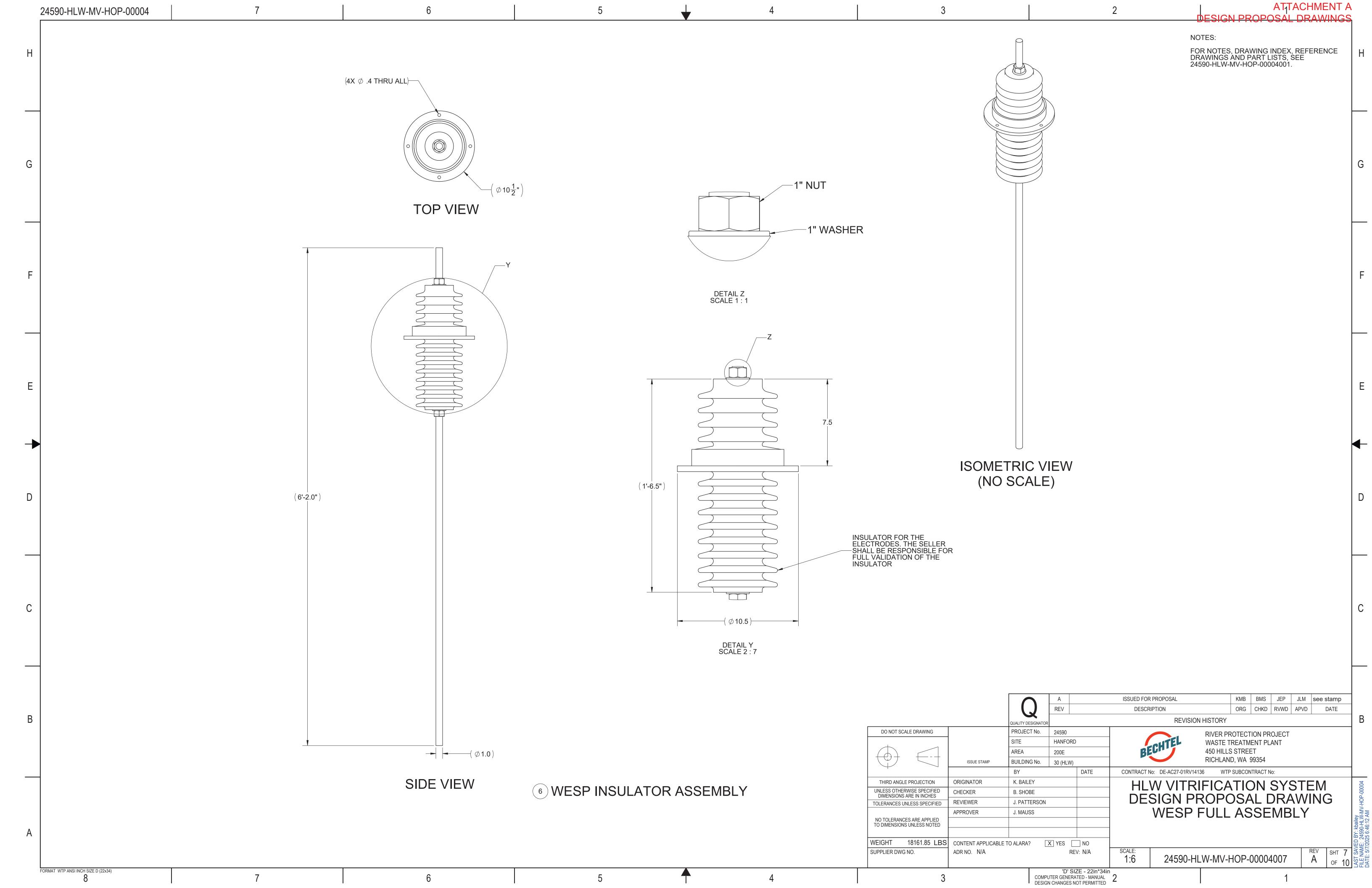


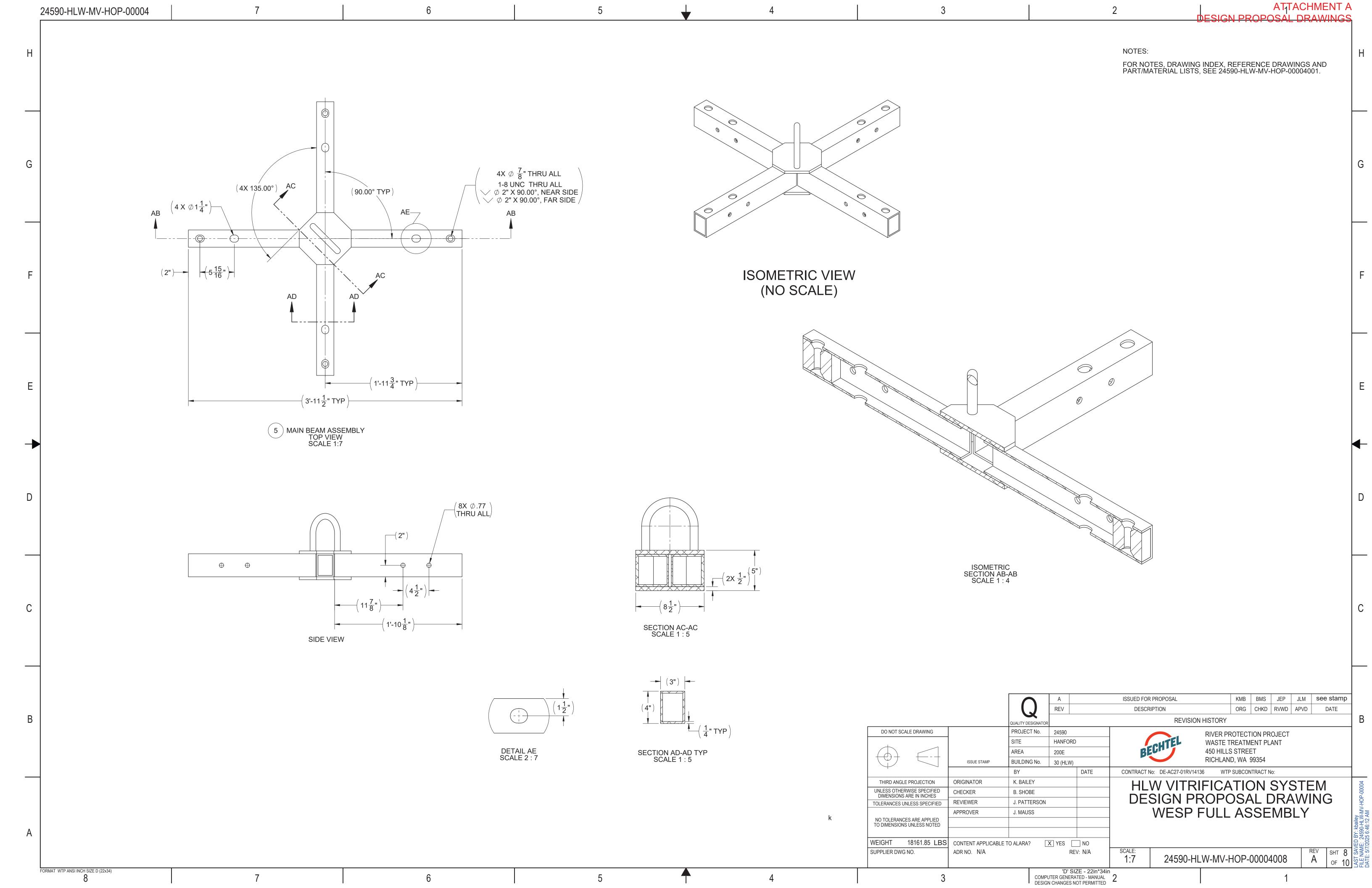


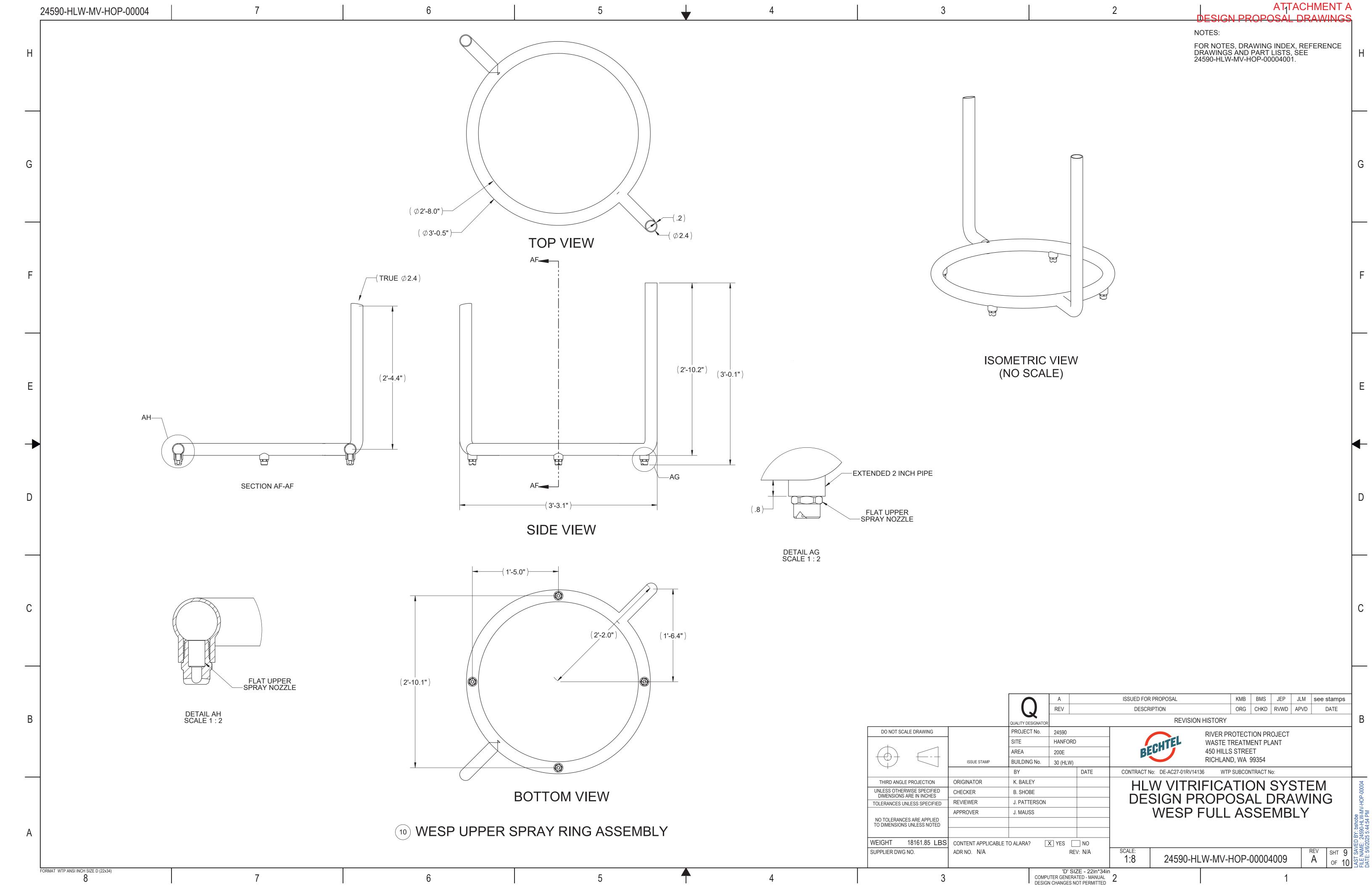


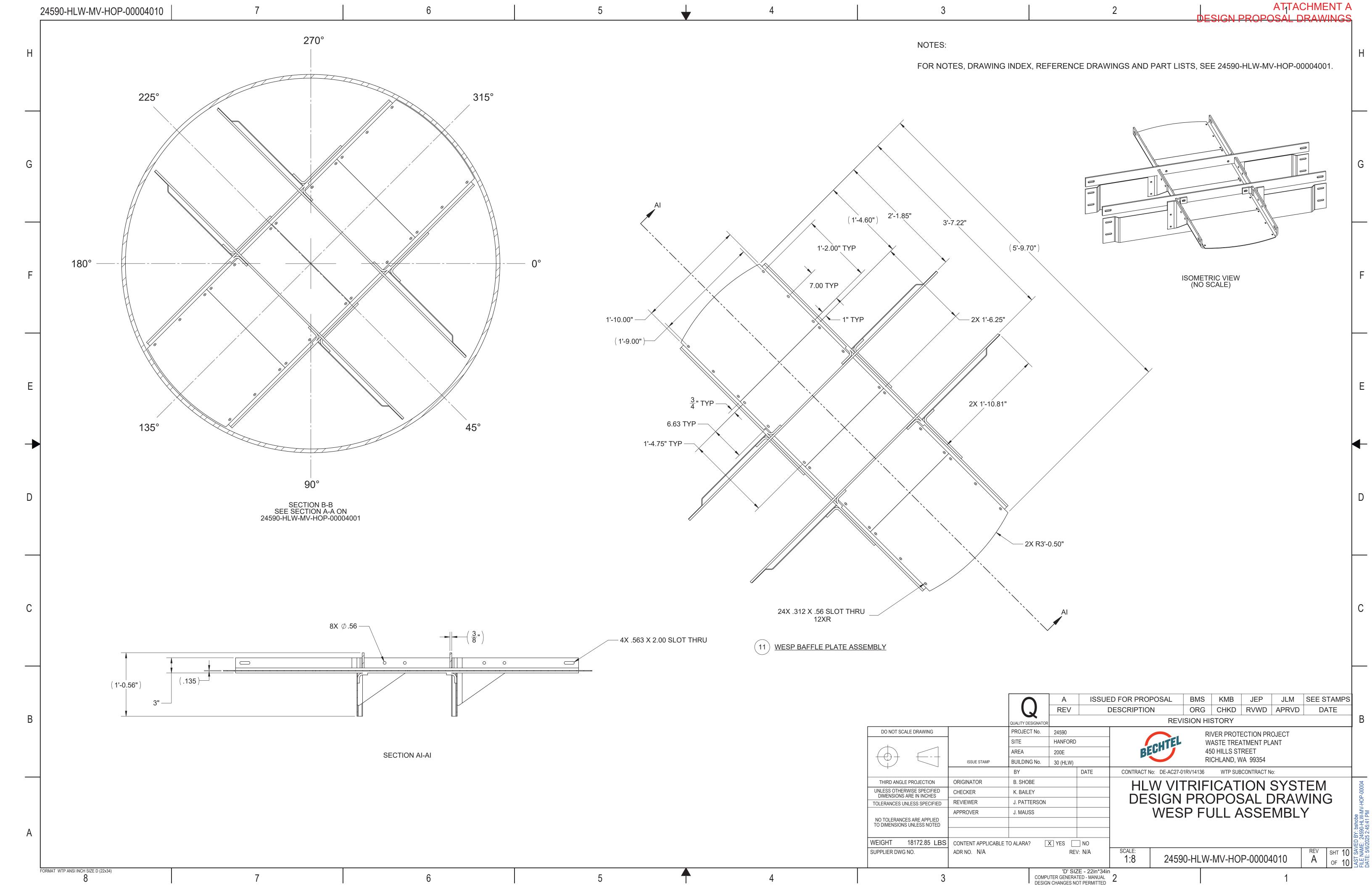


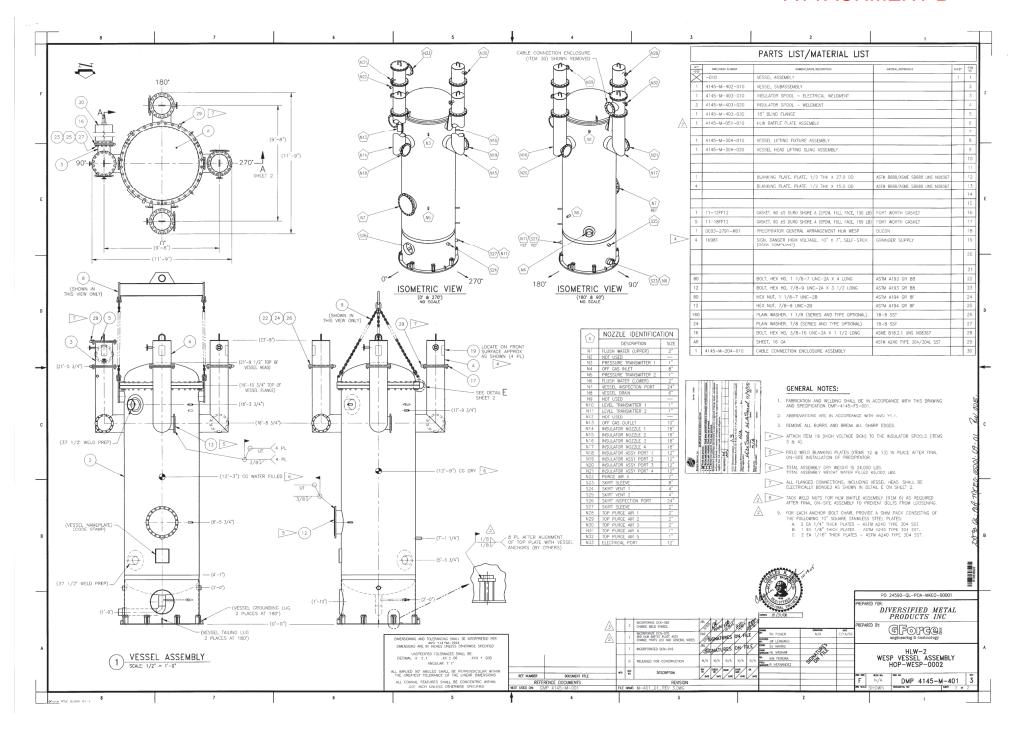


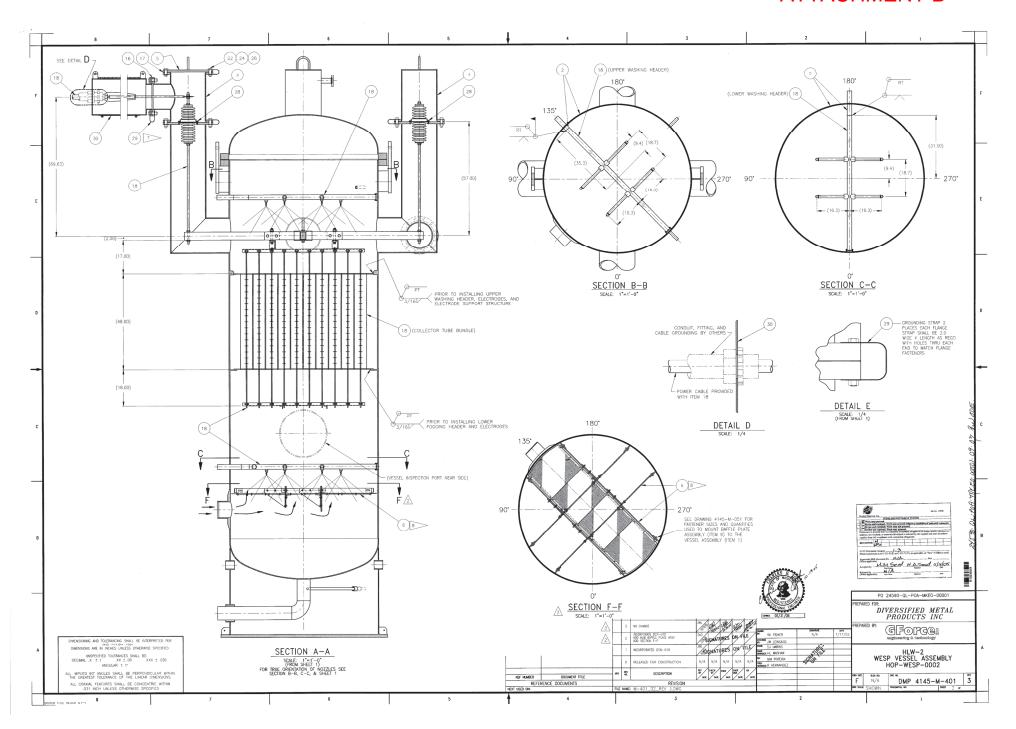


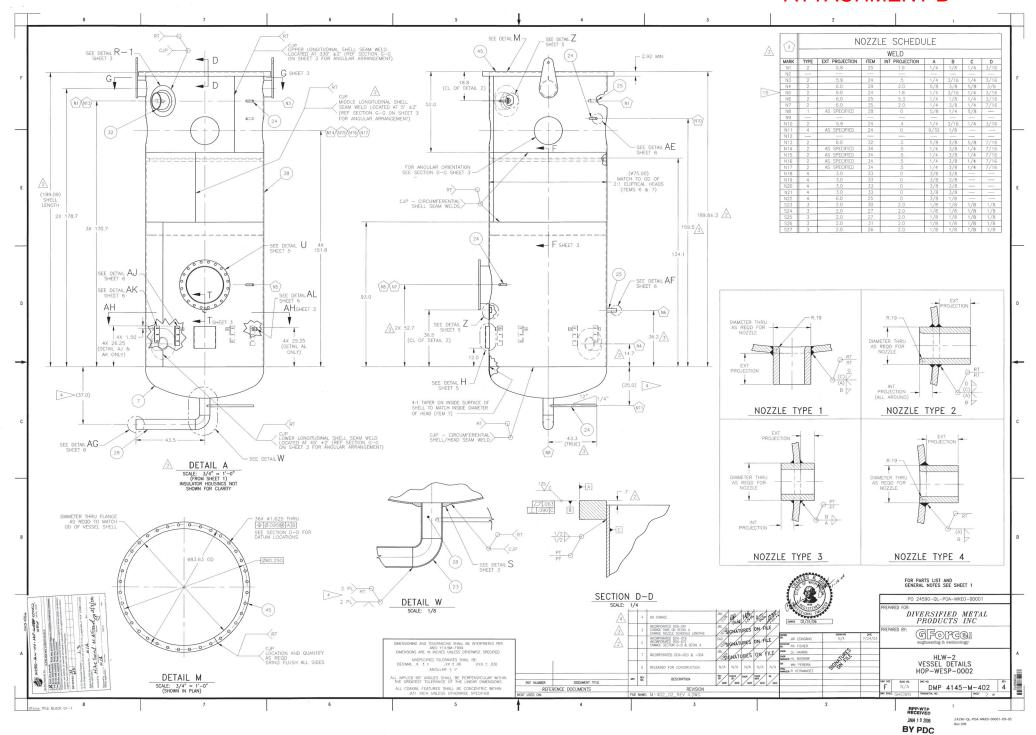


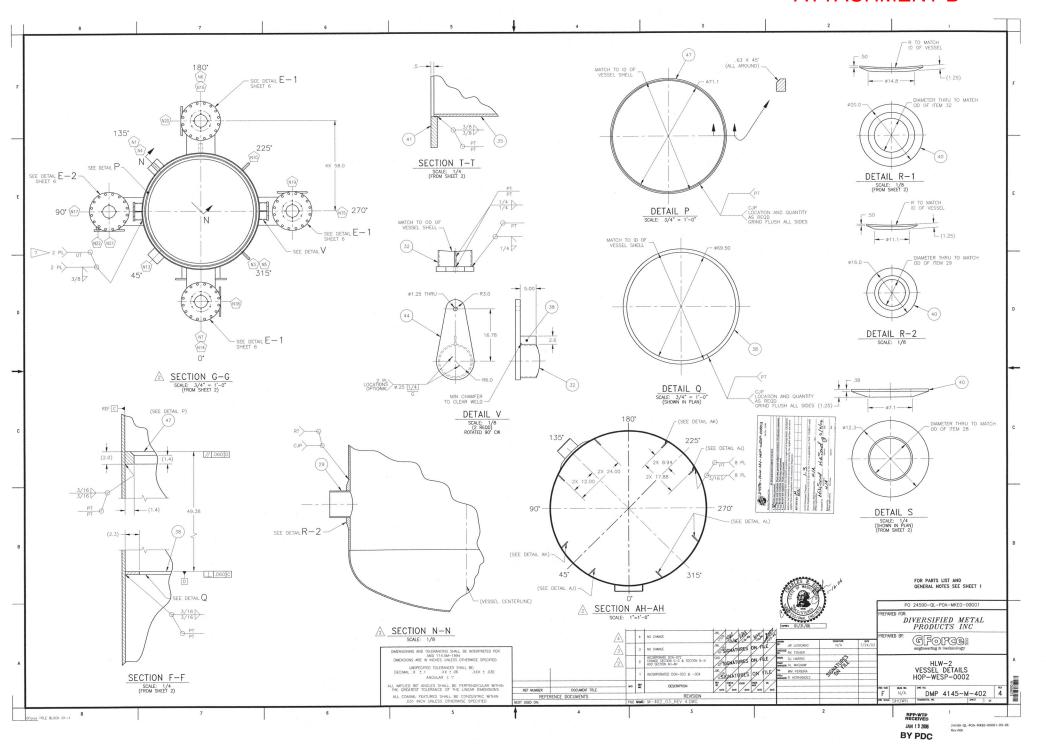


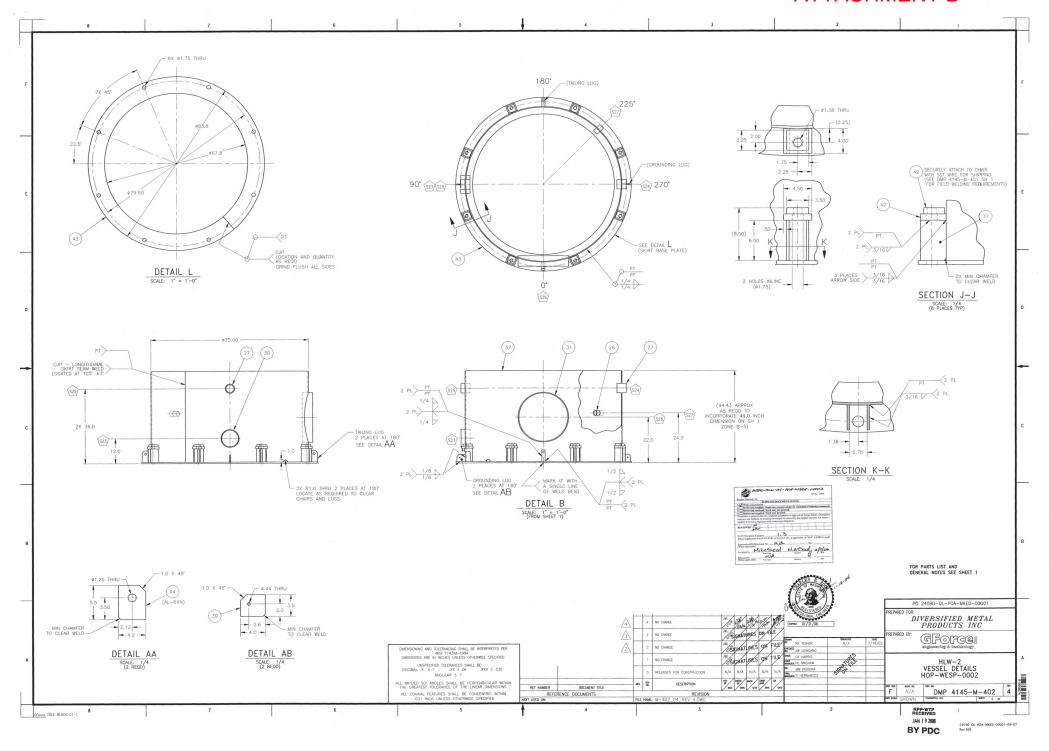


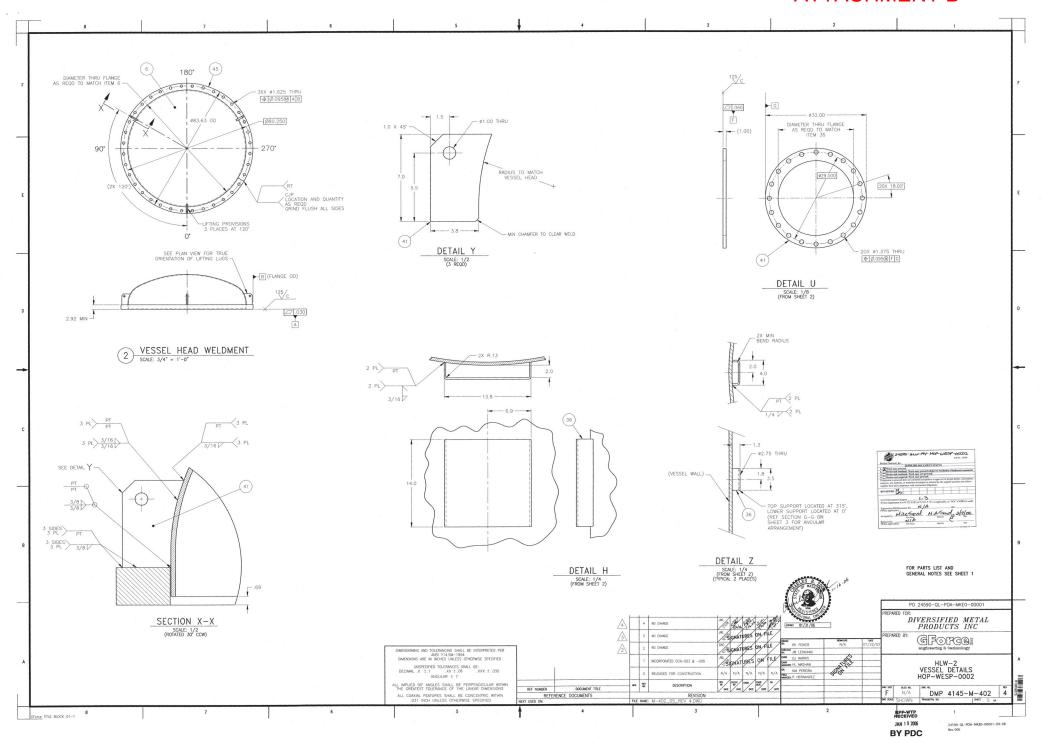


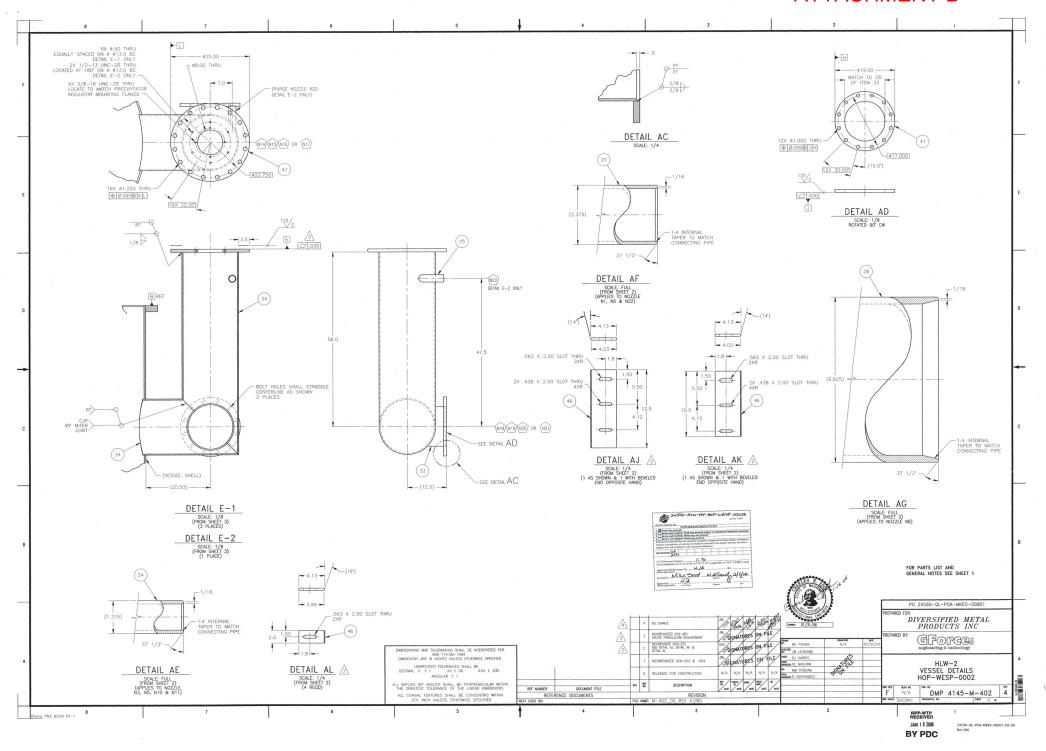












# In-Progress 24590-WTP-NCR-MGT-22-0489

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and Dispositions

Attac	on	$\rightarrow$	view Full PD		
9	New	Interim	Disposition	0	New Disposition

Email	NCR Priority	Supplier/SubContractor
rajanyse@bechtel.us	2	Diversified Metal Products, Inc
Contract Number / Purchase Order	Quality Level	Custody Currently With
24590-QL-POA-MKE0-00001	Q	Construction
ASME Code Stamped Component or Assembly	Suspect/Counterfeit?	Commissioning Breakdown Structure
Yes	No	Oliubulic

### **Nonconformance Description**

Inspection of all accessible external welds on the HOP-WESP-00001 was performed as per 24590-WTP-RPT-ENG-22-003.

- 1. Numerous welds were found to be rejectable.
- 2. There were rejectable surface defects (arc strikes).
- 3. In one case the weld specified was not actually obtainable due to configuration of the vessel head and flange. See attachment 1, 2 & 3 of NCR for details

#### **Additional Information**

Document Number	Rev	Document Title	Sections	Comments
24590-WTP-MRR-PROC- 0017737	001	DIVERSIFIED METAL PRODUCTS INC		
24590-WTP-MN-CON-01- 001-10-26	002	VT-ASME VIII NONDESTRUCTIVE EXAMINATION STANDARD		
24590-QL-POA-MKE0- 00001-09-19	00F	DRAWING - HLW-1 VESSEL DETAILS HOP- WESP-0001		
24590-QL-POA-MKE0- 00001-09-18	00F	DRAWING - HLW-1 VESSEL DETAILS HOP- WESP-0001		
24590-QL-POA-MKE0- 00001-09-16	00F	DRAWING - HLW-1 VESSEL DETAILS HOP- WESP-0001		
24590-QL-POA-MKE0- 00001-09-15	00F	DRAWING - HLW-1 VESSEL DETAILS HOP- WESP-0001		
24590-QL-POA-MKE0- 00001-09-14	00F	DRAWING - HLW-1 VESSEL SUBASSEMBLY HOP-WESP-0001		
24590-QL-POA-MKE0- 00001-09-13	00E	DRAWING - HLW-1 WESP VESSEL ASSEMBLY HOP-WESP-0001		
4590-QL-POA-MKE0- 00001-09-12	00E	DRAWING - HLW-1 WESP VESSEL ASSEMBLY HOP-WESP-0001		

### **Applicable Items**

Item Number	Parent ID	Item Description	Item Location	Item Quantity
24590-HLW-MK-HOP-WESP- 00001	HOP-WESP- 00001	MELTER 1 WET ELECTROSTATIC PRECIPITATOR (WESP)	MHF - 4N545 W407	

# In-Progress 24590-WTP-NCR-MGT-22-0489

Press F5 To refresh Responsible Individual Creates Conditional Releases **View Full PDF** Attach ... and Dispositions **New Interim Disposition New Disposition** Validate and Screen Step 1: Is the NCR valid? Yes **NCR Title** HLW - HOP-WESP-00001 accessible external vendor weld inspection Step 2: Are hold tags required? **Comments for Hold Tags** Step 3: Select the NCR Category Supplier Step 4: Stop Work? No Occurrence Reporting No Is this NCR related to an electrical item? No Step 5. Please check each WTP Area that is affected by this NCR. HLW Step 6. Select the Disposition Approval Authority to notify. Skiffington, Mark Step 7. Select the RQO to notify. Padilla, Richard× **Condition Reports** Condition Reports Associated with this NCR Are there any Condition Reports associated with this CR? If applicable, identify any Condition Reports associated to this NCR in the Condition Report section below. If there are no associated Condition Reports, please enter N/A. Condition Reports Associated to this NCR **Condition Report Number** Remove Add CR Number

# In-Progress 24590-WTP-NCR-MGT-22-0489

Press F5 To refresh Responsible Individual Creates Conditional Releases Attach ... **View Full PDF** and Dispositions **New Interim Disposition New Disposition Enter a Standing/Shift Order Number:** If not applicable please enter N/A. **Related Processes Hold Tags** Hold Tags - View **Tags Hung** Tags Removed All Tags Removed or Accounted For? 0 0 False **Conditional Releases Interim Dispositions Dispositions** Disposition #001 - View Status: In Progress NOT Ready for Implementation **Recommended Disposition Type Marked for Final Submitted Date Submitted By Process Status** Other 3/13/2023 6:07 PM Padilla, Richard Active **Process Task** Is this a superseded Disposition? Checker Concurs, Final Disposition Check this box to hide this Disposition until closure **Currently Active Users** Wells, Donnie **VA Concurrence Date DAA Approval Date Recommended Disposition** 5/2/2024 4:26 PM Route to Engineering to provide Disposition. **Final Disposition Type Submitted Date** Submitted By Use-As-Is 5/2/2024 5:58 PM Sanvictores, Mac **Final Disposition** See attached NCR 24590-WTP-NCR-MGT-22-0489 ATTACHMENT 1 - USE-AS-IS

### ATTACHMENT C

# In-Progress 24590-WTP-NCR-MGT-22-0489

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and Dispositions

Currently Active Users		
	, Gregg, Yetter, Kevin, Skiffington, Mark, I g, Rogers, Rich, Walling, Joe	Bhatt, Ajay, Opet, Paul, Bentley, Tom, Rehwalt, Andrew, George, Ronald,
/A Concurrence Date	DAA Approval Date Reco	ommended Disposition
	- SEE	ATTACHED NCR 24590-WTP-NCR-MGT-22-0489 ATTACHMENT 2-REPAIR
Final Disposition Type	Submitted Date Submit	tted By
Final Disposition	-	
Attachments		
REQUIRED FOR FIN	AL RECORD—Files attached he	ere are part of the final record and will print with NCR.
		nts (i.e. Word, Excel, emails, etc.) are converted to a PDF file format.
WESP-00001.pdf	T-22-0489 Rejected inspections HO	P- <u>View Download History</u> 12/16/2022 6:08 PM Janysek
NCR-22-0489 photos	WESP-00001.pdf	<u>View Download History</u> 12/16/2022 6:09 PM Janysek
NCR-22-0489 weld ma	aps WESP-00001a.pdf	<u>View Download History</u> 12/16/2022 6:08 PM Janysek
Attach		
Comments		
Jse this section to a	add comments to this NCR	
Add Comment		
User	Date	Comment
Skiffington, Mark	3/13/2023 11:19 AM	reference 24590-HLW-FIR-CON-22-00006
Save Commen	nte	
Suvo Sommon		
Routing Slip		
Routing Slip		
outing Slip		

# In-Progress 24590-WTP-NCR-MGT-22-0489

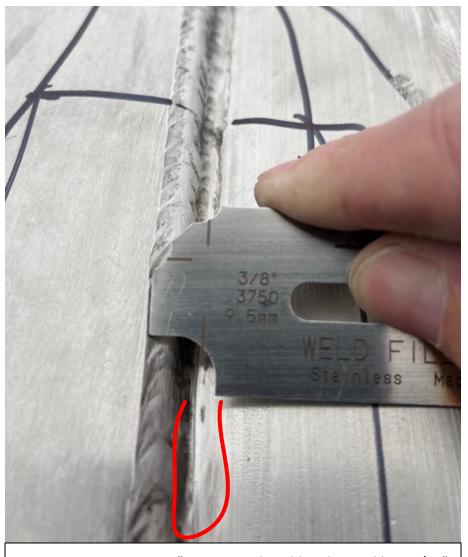
Press F5 To refresh Responsible Individual Creates Conditional Releases **View Full PDF** Attach ... and Dispositions **New Interim Disposition New Disposition** <u> јапуѕек, коу</u> เงงแแยน **RQO Notified for Hold Tags** 3/13/2023 2:21 PM Padilla, Richard 3/13/2023 Notified Disposition Approval Authority Assigns Responsible Individual 3/13/2023 2:21 PM Assign Responsible Individual Skiffington, Mark 3/13/2023 Completed Responsible Individual Creates Conditional Releases and Dispositions 3/13/2023 2:23 PM Padilla, Richard Active

# 24590-WTP-NCR-MGT-22-0489 Attachment 1 List of Rejects from 24590-HLW-FIR-CON-22-00006

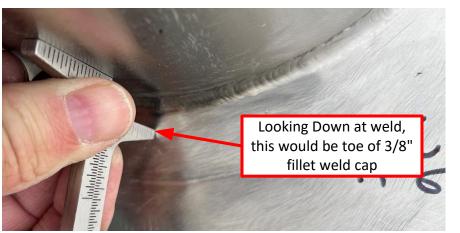
HOP-WESP-00001
Initial Inspection at MHF

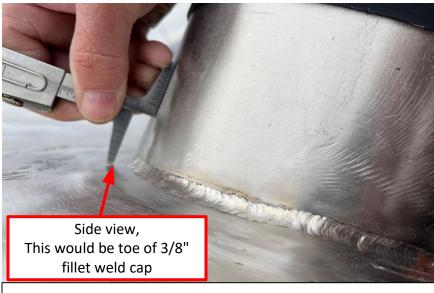
24590-HLW-FIR-CON-22-00006 Attachment 1 Page 1 of 1

Weld ID/Description			See Weld map sht #	Dia.	Weld Type	Weld Size ID	Weld Size OD	Acc/Rej		By /Date	inspection remarks
WM-21 w-1	Skirt to Head	sht 1 detail C	1	NA	fs	NA	3/8"	REJECT	RAJ	10-29-22	~20" was undersized by ~1/16". Not able to inspect area from ~270° to 90°, weld hidden by the vessel support saddle & cribbing
WM-22 W-6	N-04, 8" sch 40 to 1-1/4" plate	sht 2 Nozzle type 2	2	8"	cjp/fw	3/8"	3/8"	REJECT	RAJ	10-28-22	Weld undersized
adjacent to WM-22 W-32	N-08, 6" pipe to repad insert	sht 2 Nozzle type 1, detail W sht 2	2	6"	cjp/fw	NA	1/4"	REJECT	RAJ	10-29-22	Arc strikes adjacent to W32
WM-23 W-1	10" tube to shell Lifting Lug Assembly @ Az 90	Section G-G sht 3	3	10"	cjp/fw	NA	3/8"	REJECT	TRB	10-29-22	insufficient throat at 2-3 O'clock
WM-23 W-2	10" tube to shell Lifting Lug Assembly @ Az 270	Section G-G sht 3	3	10"	cjp/fw	NA	3/8"	REJECT	TRB	10-29-22	insufficient throat at 7-10 O'clock
WM25 W-6	Det Y lug to flange @ Az 0	vessel head weldment detail , x-x	5	NA	fw	NA	3/8"	REJECT	RAJ	10-28-22	Configuration of lug to head only permits 1/4" fillet on OD of lug to head Flange
WM25 W-7	Det Y lug to flange @ Az 120	vessel head weldment detail , x-x	5	NA	fw	NA	3/8"	REJECT	RAJ	10-28-22	Configuration of lug to head only permits 1/4" fillet on OD of lug to head Flange
WM25 W-8	Det Y lug to flange @ Az 240	vessel head weldment detail , x-x	5	NA	fw	NA	3/8"	REJECT	RAJ	10-28-22	Configuration of lug to head only permits 1/4" fillet on OD of lug to head Flange
Adjacent to WM26 W-12	N-17, 18" tube, 45 degree Girth Seam @ Az 90	Detail E-1	6	18"	сјр	NA	3/32"	REJECT	RAJ	10-29-22	Arc strikes adjacent to W12 on nozzle N-17 shell
WM26 W-21	N-18 tie-in weld to 18" N14 tube @ Az 0	Nozzle Type 4 sht2	2 /6	12"	cjp/FW	NA	3/8"	REJECT	TRB	10-29-22	Insufficient weld throat @ 7 O'clock to 1 O'clock
WM26 W-22	N-19 tie-in weld to 18" N15 tube @ Az 270	Nozzle Type 4 sht2	2 /6	12"	cjp/FW	NA	3/8"	REJECT	TRB	10-29-22	Undersized weld, & Insufficient weld throat @ 11-12 O'clock and 2-3 O'clock
WM26 W-23	N-20 tie-in weld to 18" N16 tube@ Az 180	Nozzle Type 4 sht2	2 /6	12"	cjp/FW	NA	3/8"	REJECT	RAJ	10-28-22	Undersized ~ 12" long section
WM26 W-30	N-20, flange to 12" tube @ Az 180	Detail E-1, A-C	6	12"	fw	NA	3/8"	REJECT	RAJ	10-28-22	Undersized weld ~12" long @ 9 & 3 O clock.
WM26 W-32	N-21, flange to 12" tube @ Az 90	Detail E-1, A-C	6	12"	fw	NA	3/8"	REJECT	TRB	10-29-22	Insufficient weld throat for 90% of weld length
Adjacent to WM26 W-32	N-21, flange to 12" tube @ Az 90	Detail E-1, A-C	6	12"	fw	NA	3/8"	REJECT	RAJ	10-29-22	Arc Strikes adjacent to W-32 on N-21 shell
Adjacent to WM27 W-18 & 19	7/8" bar to 1" flange w/with N-16	sec C-C, 303, sh1	7	NA	fw	NA	1/4"	REJECT	RAJ	10-28-22	Arc strikes adjacent to W18 & 19



WM-21, W-1 Reject, ~20" overground, weld undersized by ~ 1/16"

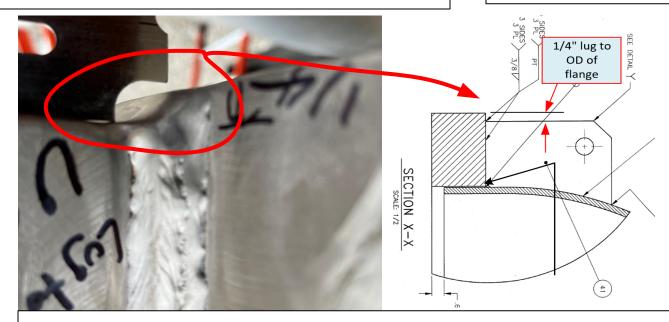




WM-22, W-6, Reject, overground, re-enforcement fillet weld cap undersized by  $^\sim$  1/4"



WM-22, W-32, Arc strikes adjacent to W-32



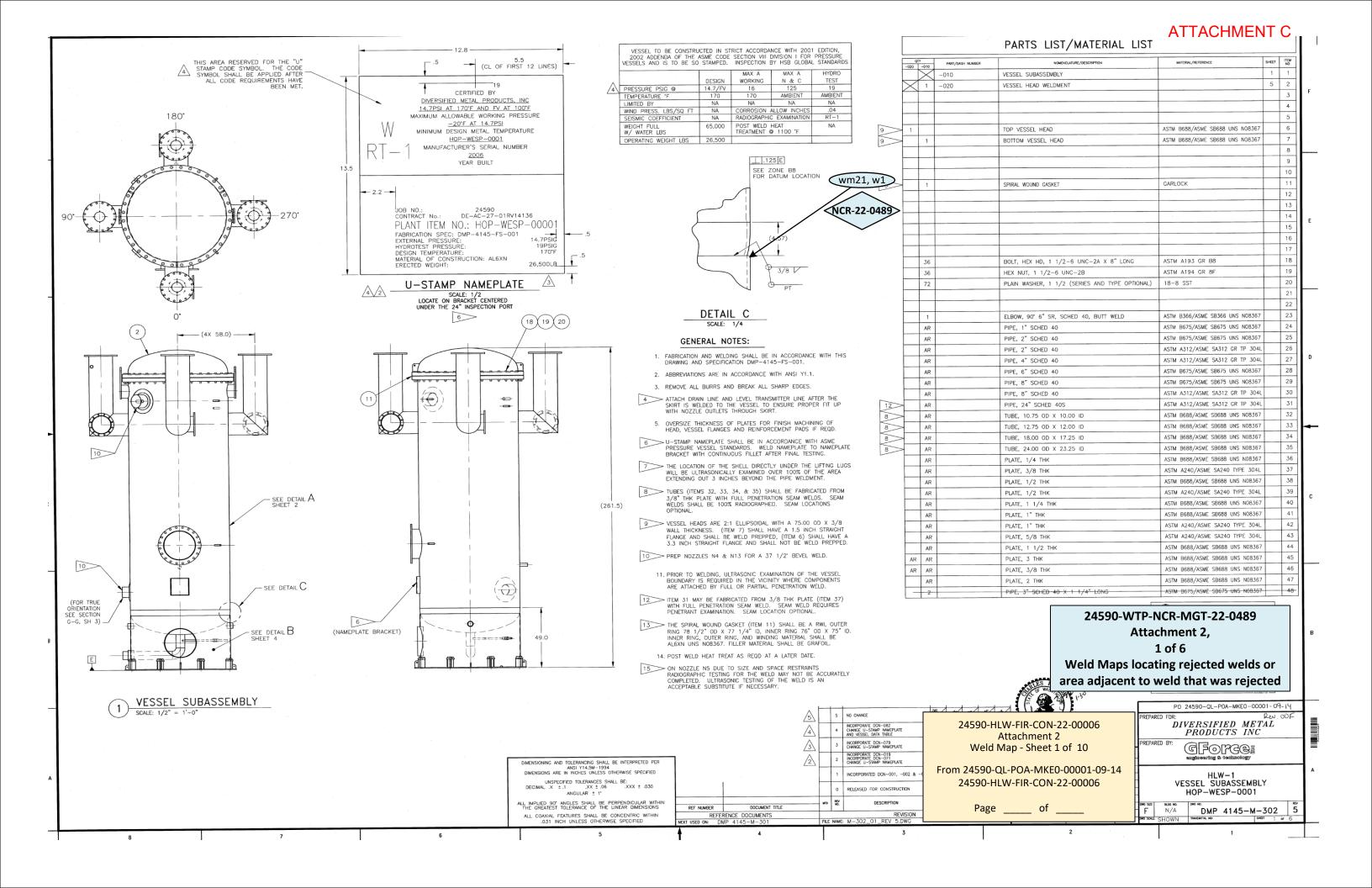
WM-25 W-6, 7 & 8 - 3/8" fillet weld not achievable. Configuration of lug to head only permits 1/4" fillet on Outside edge of lug to Top head Flange.

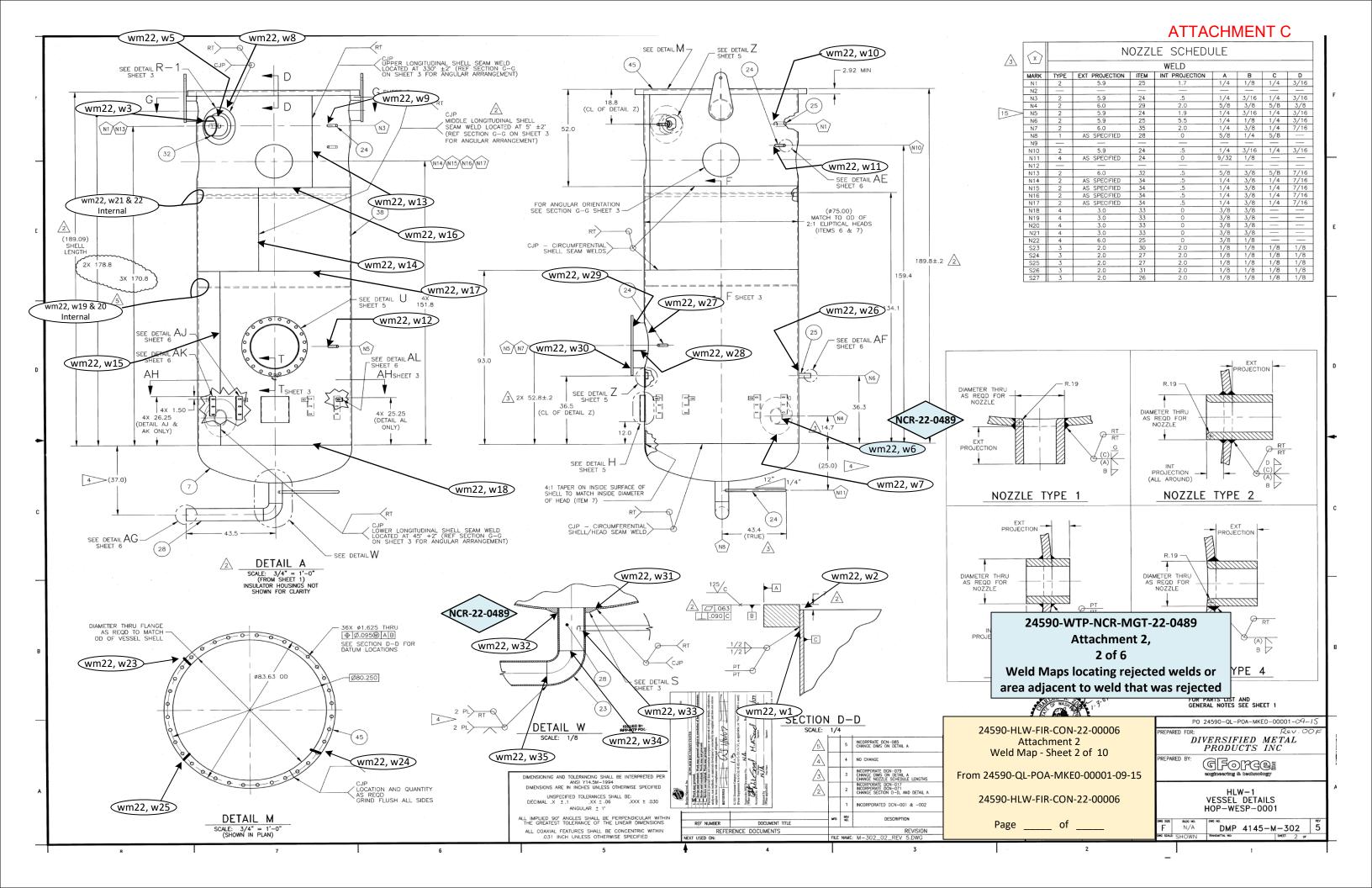
24590-WTP-NCR-MGT-22-0489
Attachment 3,
1 of 3
Photos of areas rejected

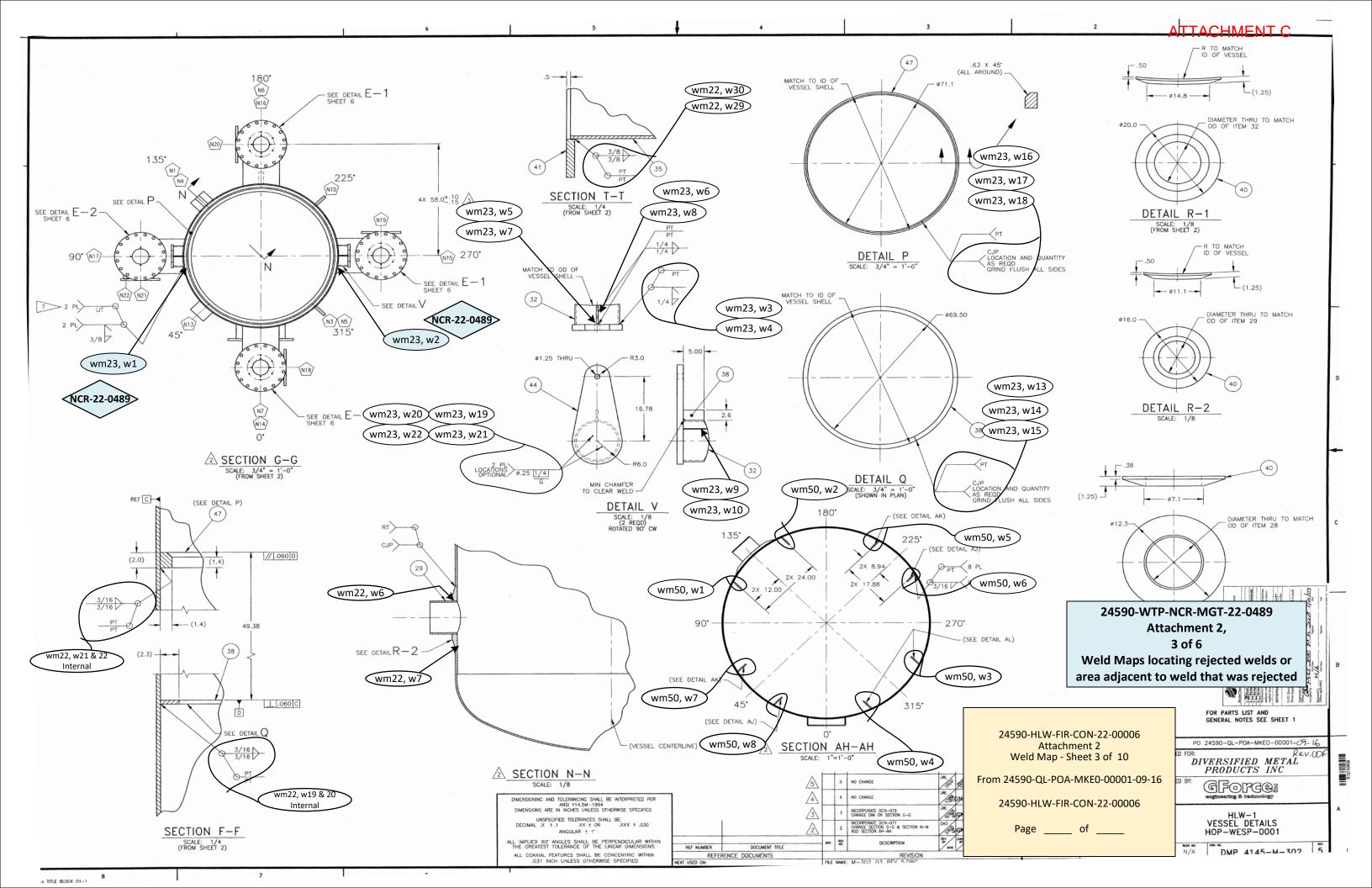
24590-HLW-FIR-CON-22-00006 Attachment 3 HOP-WESP-00001 Rejected welds - Sheet 1 of 3

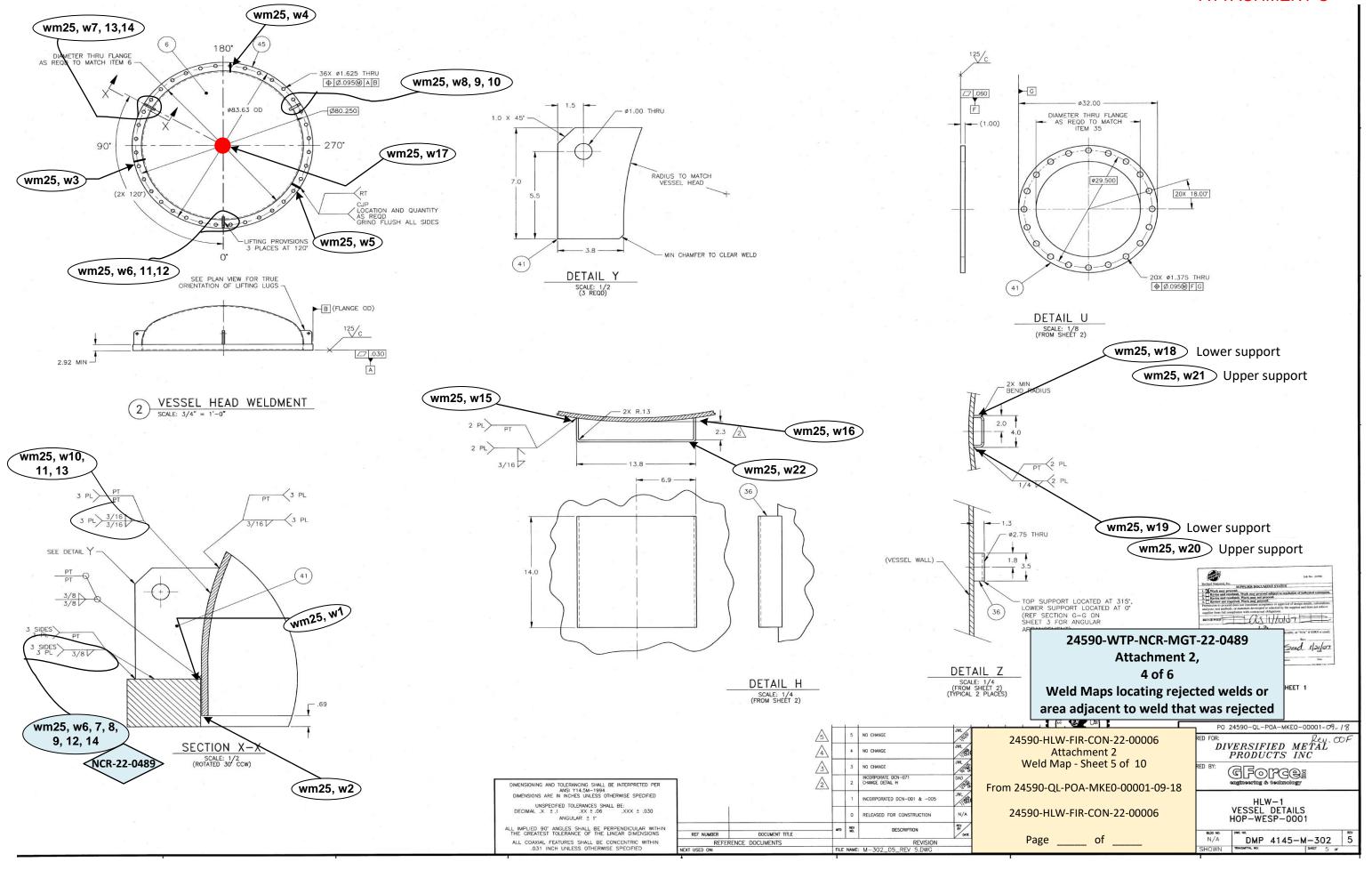
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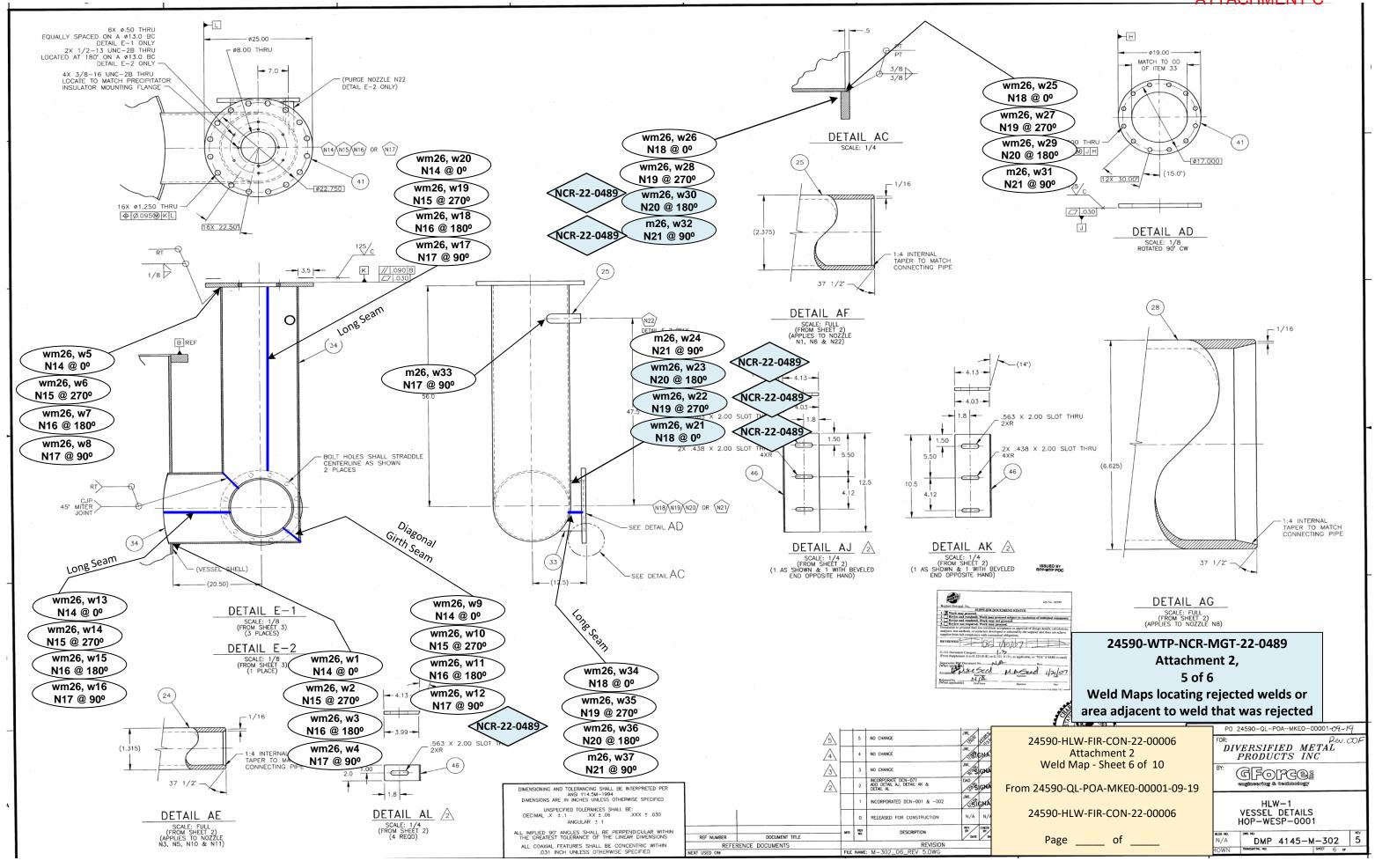
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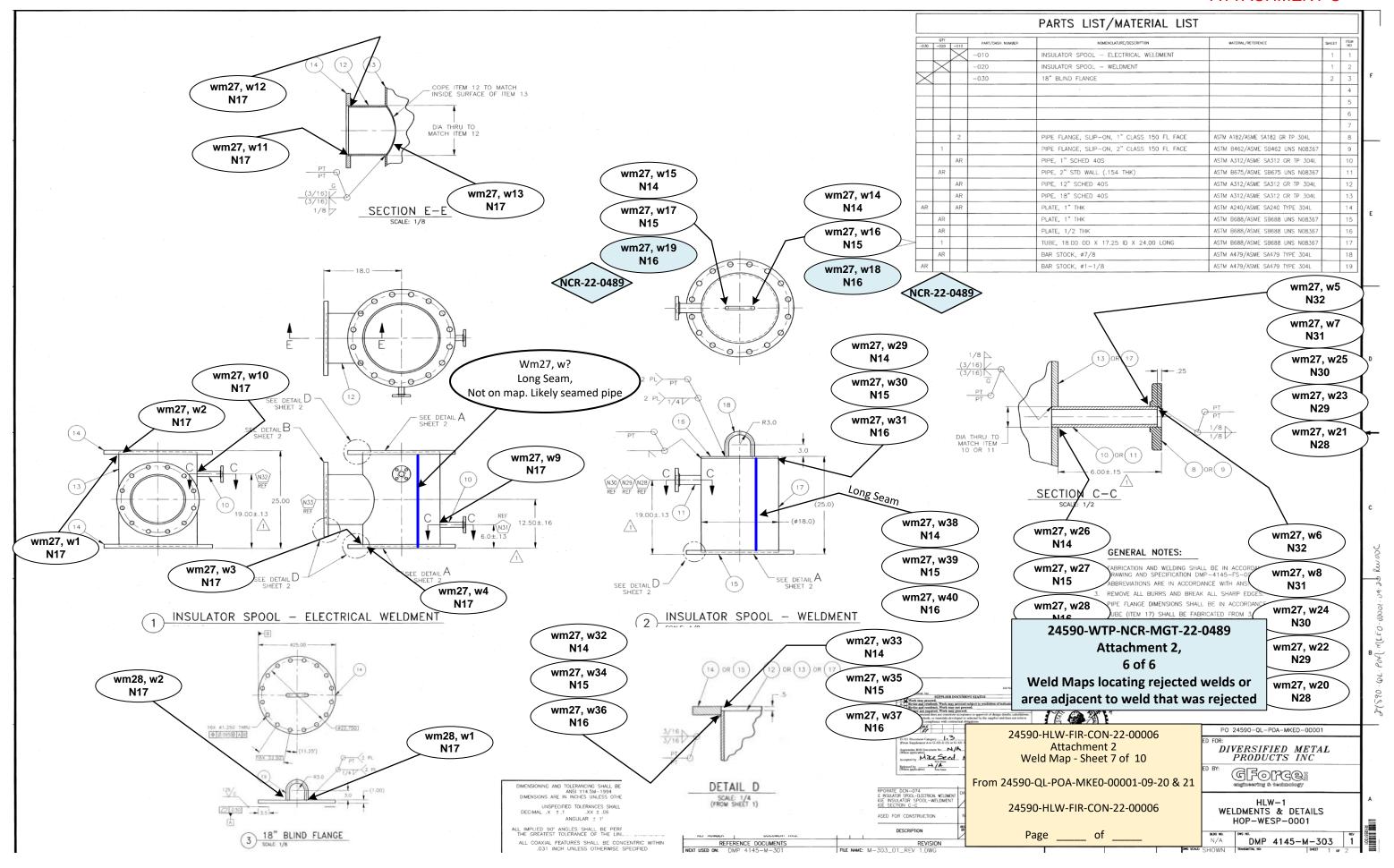






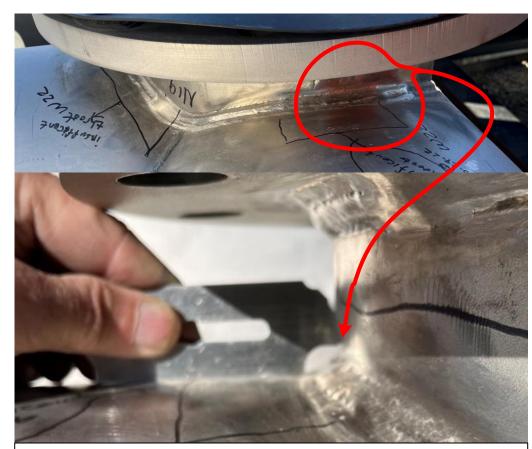




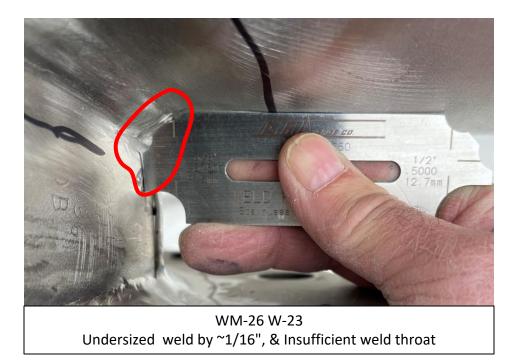


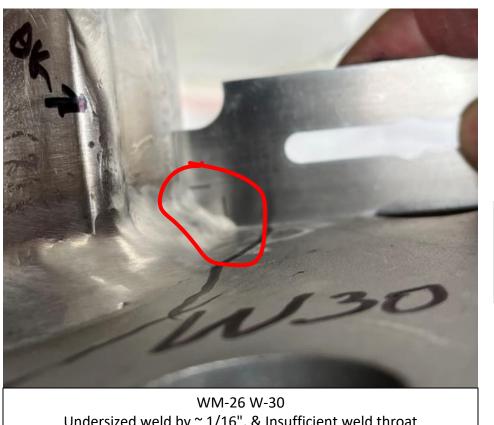


WM-26 W-21 Insufficient weld throat by ~ 1/16" between 7 to 1 O'clock



WM-26 W-22 Undersized weld by ~1/16", & Insufficient weld throat @ 11-12 O'clock and 2-3 O'clock





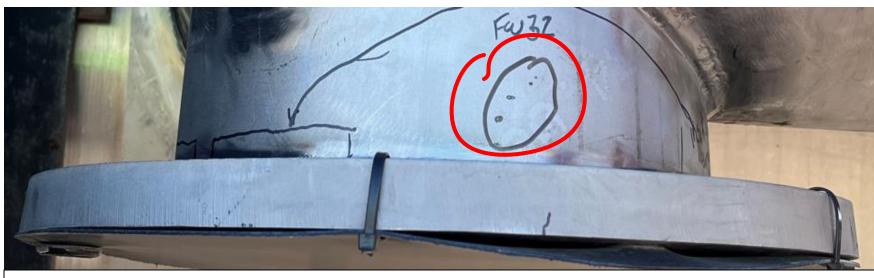
Undersized weld by ~ 1/16", & Insufficient weld throat

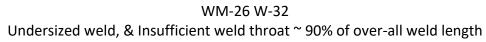
24590-WTP-NCR-MGT-22-0489 Attachment 3, 2 of 3 Photos of areas rejected

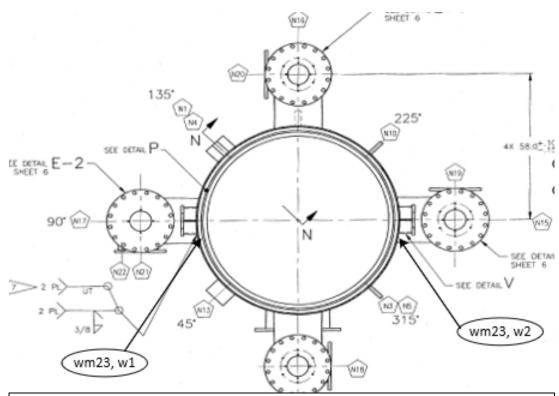
24590-HLW-FIR-CON-22-00006 Attachment 3 HOP-WESP-00001 Rejected welds - Sheet 2 of 3

24590-HLW-FIR-CON-22-00006

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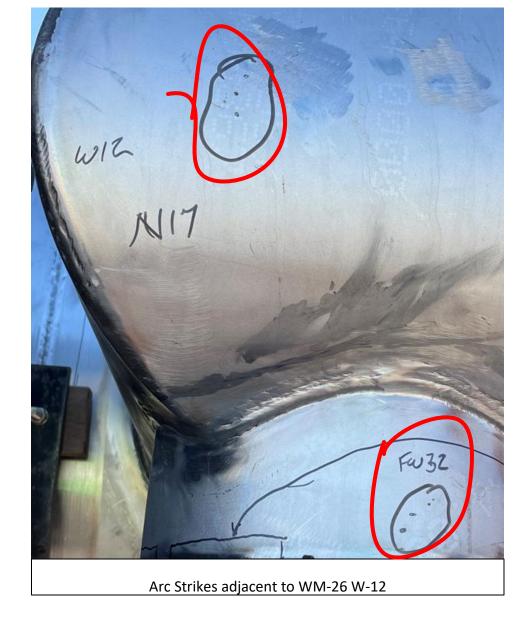






WM-23 W-1 - insufficient throat at 2-3 O'clock NO PHOTO WAS TAKEN 10" tube to shell Lifting Lug Assembly @ Az 90

WM-23 W-2 – Insufficient throat at 7-10 O'clock NO PHOTO WAS TAKEN 10" tube to shell Lifting Lug Assembly @ Az 270





24590-WTP-NCR-MGT-22-0489 Attachment 3, 3 of 3 Photos of areas rejected

> 24590-HLW-FIR-CON-22-00006 Attachment 3 HOP-WESP-00001 Rejected welds - Sheet 3 of 3

24590-HLW-FIR-CON-22-00006

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and Dispositions

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Weld ID/Description			See Weld map sht #	Dia.	Weld Type	Weld Size ID	Weld Size OD	Acc/Rej	By /Date	
WM-30 w-1	Skirt to Head	sht 1 detail C	1	NA	fs	NA	3/8"	REJECT	RAJ 10-29-22	~20" was undersized by ~1/16". Not able to inspect area from ~270° to 90°, weld hidden by the vessel support saddle & cribbing
WM-31 W-5	N-13, 10" tube to 1-1/4" plate	sht 2 Nozzle type 2	2	10"	cjp/fw	7/16"	3/8"	REJECT	TRB 10-28-22	Weld undersized @ 11:30- 2 and 4-5 Oclock
WM-32 W-1	10" tube to shell Lifting Lug Assembly @ Az 90	Section G-G sht 3	3	10"	cjp/fw	NA	3/8"	REJECT	TRB 10-29-22	insufficient throat at 1-3 & 4-5 O'clock
WM-32 W-2	10" tube to shell Lifting Lug Assembly @ Az 270	Section G-G sht 3	3	10"	cjp/fw	NA	3/8"	REJECT	TRB 10-29-22	insufficient throat for 1-1/2" area @ 8 O'clock
WM-34 W-6	Det Y lug to flange @ Az 0	vessel head weldment detail , x-x	5	NA	fw	NA	3/8"	REJECT	RAJ 10-28-22	Configuration of lug to head only permits 1/4" fillet on OD of lug to head Flange
WM-34 W-7	Det Y lug to flange @ Az 120	vessel head weldment detail , x-x	5	NA	fw	NA	3/8"	REJECT	RAJ 10-28-22	Configuration of lug to head only permits 1/4" fillet on OD of lug to head Flange
	Det Y lug to flange @ Az 240	vessel head weldment detail , x-x	5	NA	fw	NA	3/8"	REJECT	RAJ 10-28-22	Configuration of lug to head only permits 1/4" fillet on OD of lug to head Flange
WM-35 W-30	N-20, flange to 12" tube @ Az 180	Detail E-1, A-C	6	12"	fw	NA	3/8"	REJECT	RAJ 10-28-22	Undersized weld ~6" long @ 3 O clock by ~ 1/16".
WM-36 W-13	N-33 to N-17 Insulator spool weldment shell	sec C-C, 303, sh1	7	12"	cjp/fw	NA	1/8"	REJECT	RAJ 10-29-22	undersized weld ~1-1/2" long @ 2 O clock.
adjacent to WM-36 W-15	7/8" bar to 1" flange w/with N-14	sec C-C, 303, sh1	7	NA	fw	NA	1/4"	REJECT	RAJ 10-29-22	Arc strikes
WM-36 W-18	7/8" bar to 1" flange w/with N-16	sec C-C, 303, sh1	7	NA	fw	NA	1/4"	REJECT	RAJ 10-29-22	Undersized in weld throat by ~ 1/32"
adjacent to WM-36 W-18	7/8" bar to 1" flange w/with N-16	sec C-C, 303, sh1	7	NA	fw	NA	1/4"	REJECT	RAJ 10-29-22	Arc strikes
WM-36 W-19	7/8" bar to 1" flange w/with N-16	sec C-C, 303, sh1	7	NA	fw	NA	1/4"	REJECT	RAJ 10-29-22	Undersized in weld throat by ~ 1/32"

# In-Progress 24590-WTP-NCR-MGT-22-0490

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Email	NCR Priority	Supplier/SubContractor
rajanyse@bechtel.us	2	Diversified Metal Products, Inc
Contract Number / Purchase	Quality Level	Custody Currently With
Order	Q	Construction
24590-QL-POA-MKE0-00001		
ASME Code Stamped Component	Suspect/Counterfeit?	Commissioning Breakdown
or Assembly	No	Structure
Yes		

#### **Nonconformance Description**

Inspection of all accessible external welds on the HOP-WESP-00002 was performed as per 24590-WTP-RPT-ENG-22-00003.

- 1. Numerous welds were found to be rejectable.
- 2. There were rejectable surface defects (arc strikes).
- 3. In one case the weld specified was not actually obtainable due to configuration of the vessel head and flange. See attachment 1, 2 & 3 of NCR for details

#### **Additional Information**

Document Number	Rev	Document Title	Sections	Comments
24590-WTP-MRR-PROC- 0017737	001	DIVERSIFIED METAL PRODUCTS INC		
24590-WTP-MN-CON-01- 001-10-26	002	VT-ASME VIII NONDESTRUCTIVE EXAMINATION STANDARD		
24590-QL-POA-MKE0- 00001-09-10	00C	DRAWING - HLW-2 WESP WELDMENTS & DETAILS, DMP 4145-M-403		
24590-QL-POA-MKE0- 00001-09-09	00E	DRAWING - HLW-2 VESSEL DETAILS HOP- WESP-0002		
24590-QL-POA-MKE0- 00001-09-08	00E	DRAWING - HLW-2 VESSEL DETAILS HOP- WESP-0002		
24590-QL-POA-MKE0- 00001-09-06	00E	DRAWING - HLW-2 VESSEL DETAILS HOP- WESP-0002		
24590-QL-POA-MKE0- 00001-09-05	00E	DRAWING - HLW-2 VESSEL DETAILS HOP- WESP-0002		
24590-QL-POA-MKE0- 00001-09-04	00E	DRAWING - HLW-2 VESSEL SUBASSEMBLY HOP-WESP-0002		
24590-QL-POA-MKE0- 00001-09-03	00E	DRAWING - HLW-2 WESP VESSEL ASSEMBLY HOP-WESP-00002		
24590-QL-POA-MKE0- 00001-09-01	00E	DRAWING - HLW-2 WESP VESSEL ASSEMBLY HOP-WESP-0002		

#### **Applicable Items**

Item Number	Parent ID	Item Description	Item Location	Item Quantity
24590-HLW-MK-HOP-WESP- 00002	HOP-WESP- 00002	MELTER 2 WET ELECTROSTATIC PRECIPITATOR (WESP)	MHF - 4N545 W407	1

### **Condition Reports Associated with this NCR**

Validator	Validation Date

# In-Progress 24590-WTP-NCR-MGT-22-0490

Press F5 To refresh Responsible Individual Creates Conditional Releases Attach ... **View Full PDF** and Dispositions **New Interim Disposition New Disposition** Yes **NCR Title** HLW - HOP-WESP-00002 Step 2: Are hold tags required? **Comments for Hold Tags** Step 3: Select the NCR Category Supplier Step 4: Stop Work? No Occurrence Reporting No Is this NCR related to an electrical item? No Step 5. Please check each WTP Area that is affected by this NCR. HLW Step 6. Select the Disposition Approval Authority to notify. Skiffington, Mark Step 7. Select the RQO to notify. Padilla, Richard× **Condition Reports Condition Reports Associated with this NCR** Are there any Condition Reports associated with this CR? If applicable, identify any Condition Reports associated to this NCR in the Condition Report section below. If there are no associated Condition Reports, please enter N/A. Condition Reports Associated to this NCR Add CR Number

Work Order/Work Request and Standing/Shift Order Numbers

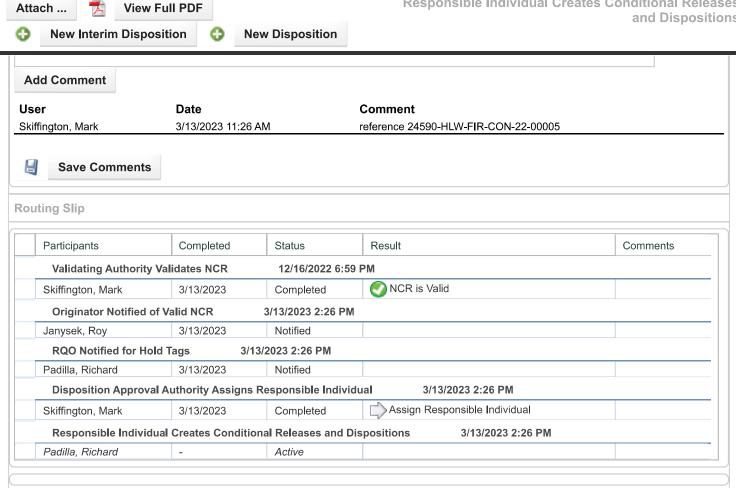
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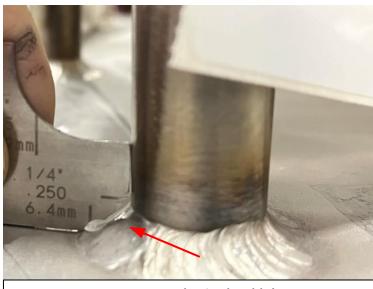
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Other <b>Process Task</b>		No	3/13/2023 6:18 PM superseded Disposition	Padilla, Richard	Active
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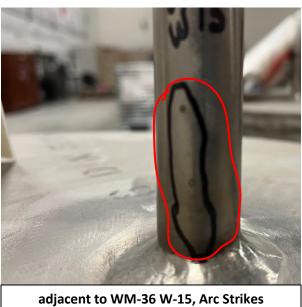
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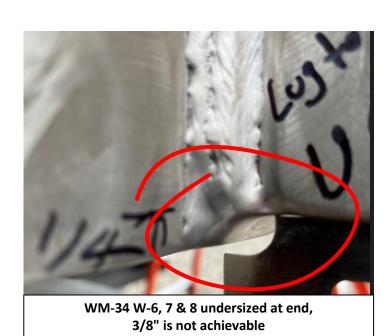


WM-36 W-19, Undersized weld throat

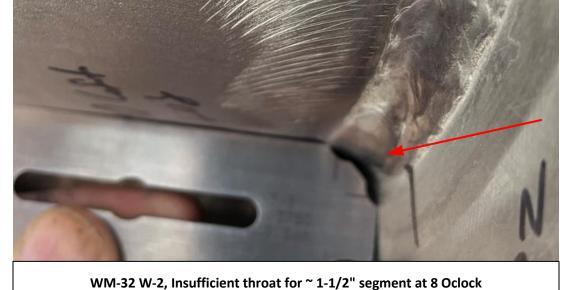


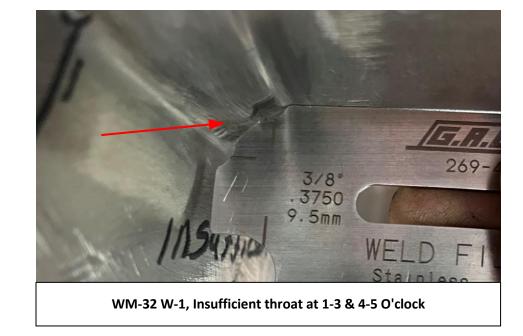


WM-36 W-13, Undersized weld ~ 1-1/2" long section



WM-36 W-18, Undersized weld Throat & arc strike





WM-31 W-5, Weld undersized @ 11:30-2 and 4-5 Oclock

WM-35 W-30 - NO PHOTO TAKEN Fillet weld undersized by ~1/16" for 6" long segment at 6 Oclock

> WM-30 W-1 - NO PHOTO TAKEN ~20" undersized by ~ 1/16"

24590-WTP-NCR-MGT-22-0490 Attachment 3 1 of 1 **Photos of rejects** 

> 24590-HLW-FIR-CON-22-00005 Attachment 3 Rejected Weld Photo's - Sheet 1 of 1 HOP-WESP-00002

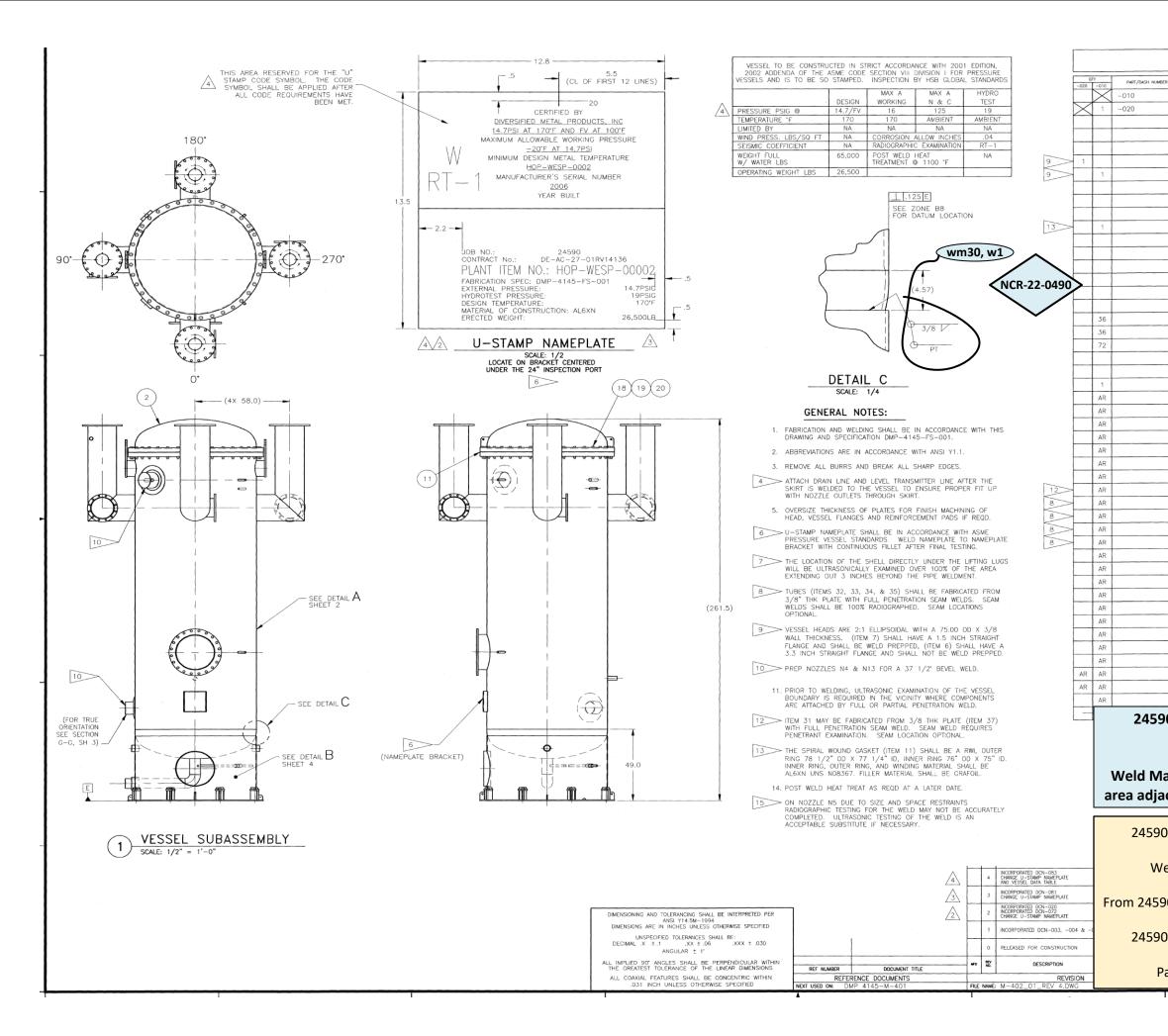
24590-HLW-FIR-CON-22-00005

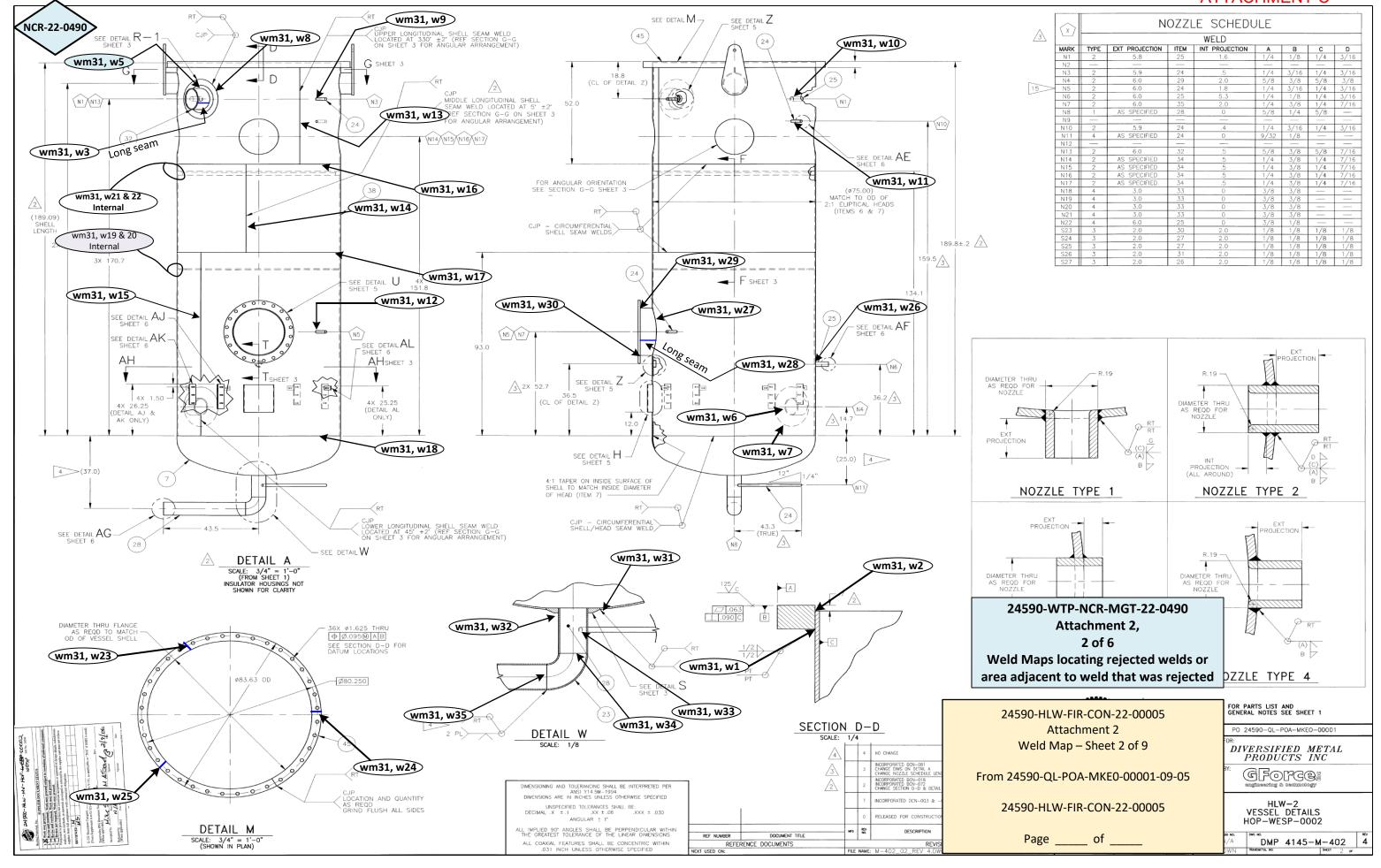
#### ATTACHMENT C PARTS LIST/MATERIAL LIST SHEET ITEM MATERIAL/REFERENCE VESSEL SUBASSEMBLY VESSEL HEAD WELDMENT OP VESSEL HEAD ASTM B688/ASME SB688 UNS NO8367 BOTTOM VESSEL HEAD ASTM B688/ASME SB688 UNS NO8367 SPIRAL WOUND GASKET ASTM A193 GR B8 BOLT, HEX HD. 1 1/2-6 UNC-2A X 8" LONG HEX NUT. 1 1/2-6 UNC-2B ASTM A194 GR 8F PLAIN WASHER, 1 1/2 (SERIES AND TYPE OPTIONAL) ELBOW, 90° 6" SR. SCHED 40. BUTT WELD ASTM B366/ASME SB366 UNS NO8367 PIPE, 1" SCHED 40 ASTM B675/ASME SB675 UNS NO8367 ASTM B675/ASME SB675 UNS N08367 PIPE, 2" SCHED 40 ASTM A312/ASMF SA312 GR TP 304L PIPE, 4" SCHED 40 ASTM A312/ASME SA312 GR TP 304L PIPE, 6" SCHED 40 28 ASTM B675/ASME SB675 UNS N08367 PIPE, 8" SCHED 40 PIPE, 8" SCHED 40 ASTM A312/ASME SA312 GR TP 304L PIPE, 24" SCHED 40S ASTM A312/ASME SA312 GR TP 304L UBE, 10.75 OD X 10.00 ID ASTM B688/ASME SB688 UNS NO8367 UBE, 12.75 OD X 12.00 ID ASTM B688/ASME SB688 UNS NO8367 TUBE, 18.00 OD X 17.25 ID ASTM B688/ASME SB688 UNS N08367 35 TUBE, 24.00 OD X 23.25 ID ASTM R688/ASMF SR688 LINS NO8367 PLATE, 1/4 THK ASTM B688/ASME SB688 UNS NO8367 PLATE, 3/8 THK ASTM A240/ASME SA240 TYPE 304L PLATE, 1/2 THK ASTM B688/ASME SB688 UNS NO8367 PLATE, 1/2 THK ASTM A240/ASME SA240 TYPE 3041 PLATE, 1 1/4 THK ASTM B688/ASME SB688 UNS NO8367 PLATE, 1" THK ASTM B688/ASME SB688 UNS NO8367 ASTM A240/ASME SA240 TYPE 304L ASTM A240/ASME SA240 TYPE 304L PLATE, 1 1/2 THK ASTM R688/ASMF SR688 UNS N08367 PLATE, 3 THK ASTM B688/ASME SB688 UNS NO8367 PLATE, 3/8 THK ASTM B688/ASME SB688 UNS NO8367 PLATE, 2 THK ASTM B688/ASME SB688 UNS NO8367 ASTM R675/ASMF SR675 UNS N08367 24590-WTP-NCR-MGT-22-0490 24540-HLW-HV-HOP-WESP-COOOL Attachment 2, 1 of 6 Weld Maps locating rejected welds or area adjacent to weld that was rejected ament Category 1.3 BNI Document No. N/A Power specials BNI Document No. Power applicable State Conference of State St 24590-HLW-FIR-CON-22-00005 Attachment 2 PO 24590-QL-POA-MKEO-00001 Weld Map - Sheet 1 of 9 DIVERSIFIED METAL PRODUCTS INC GForce: From 24590-QL-POA-MKE0-00001-09-04 HLW-2 VESSEL SUBASSEMBLY HOP-WESP-0002 24590-HLW-FIR-CON-22-00005 BLDG NO.

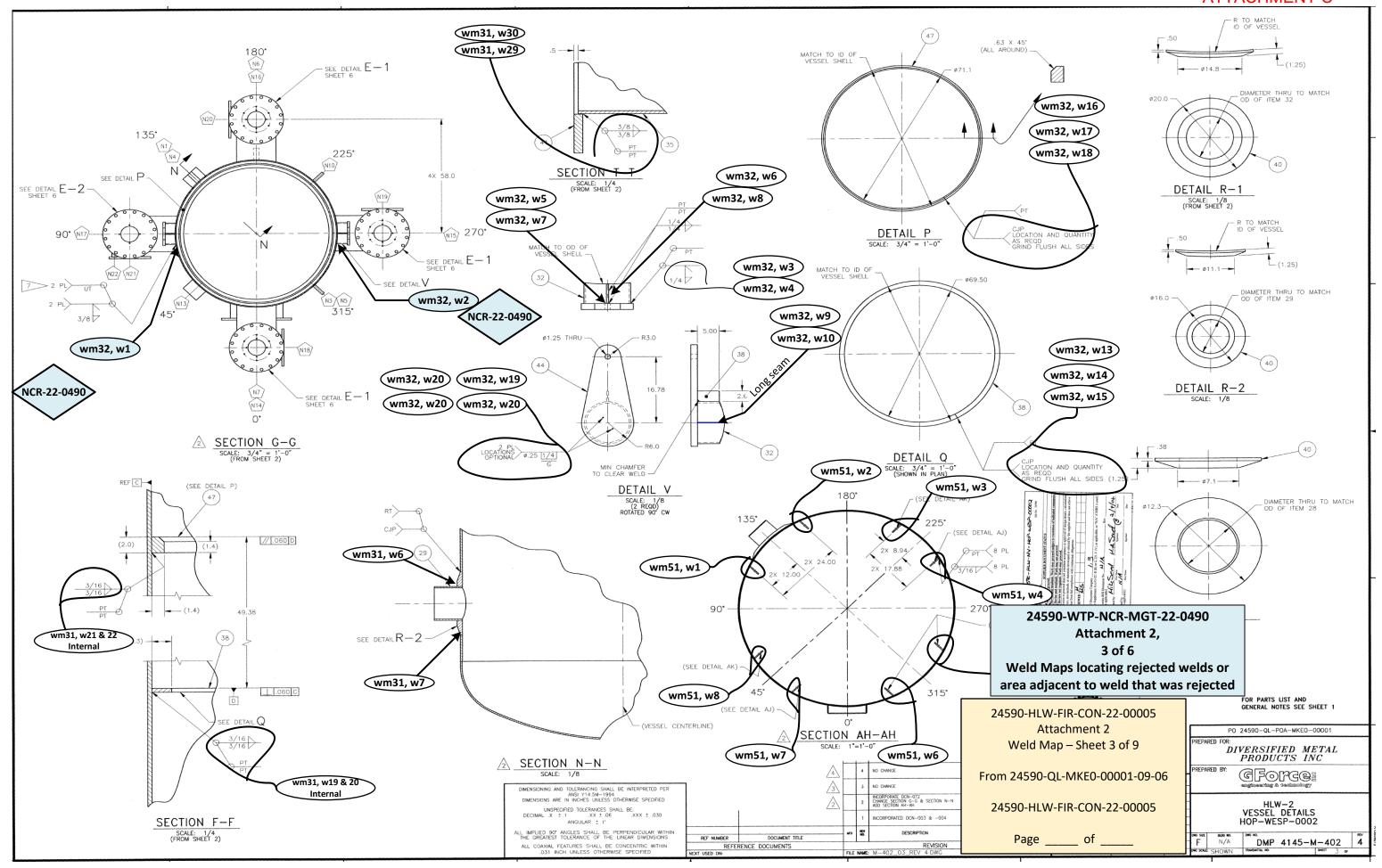
DMP 4145-M-402 4

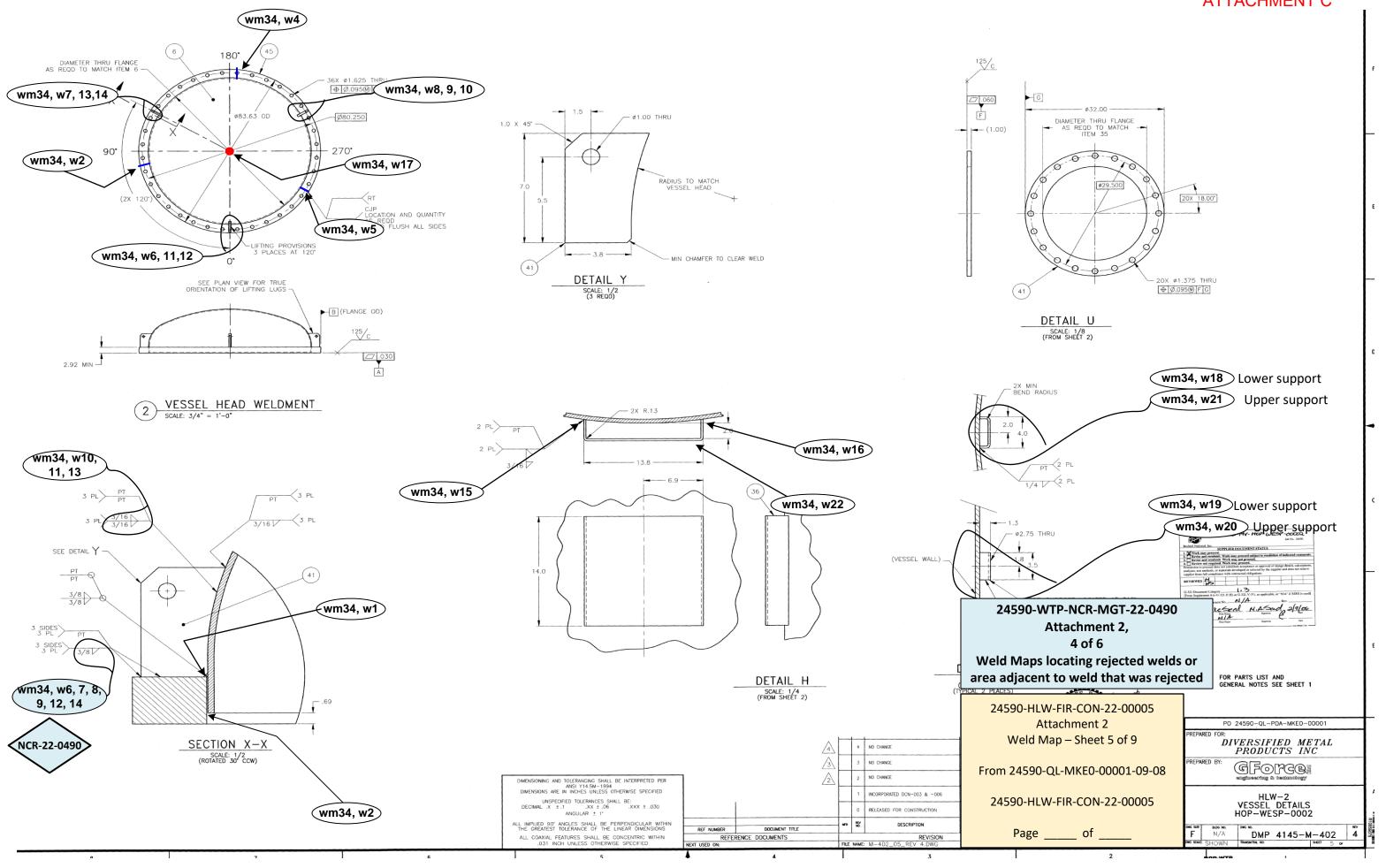
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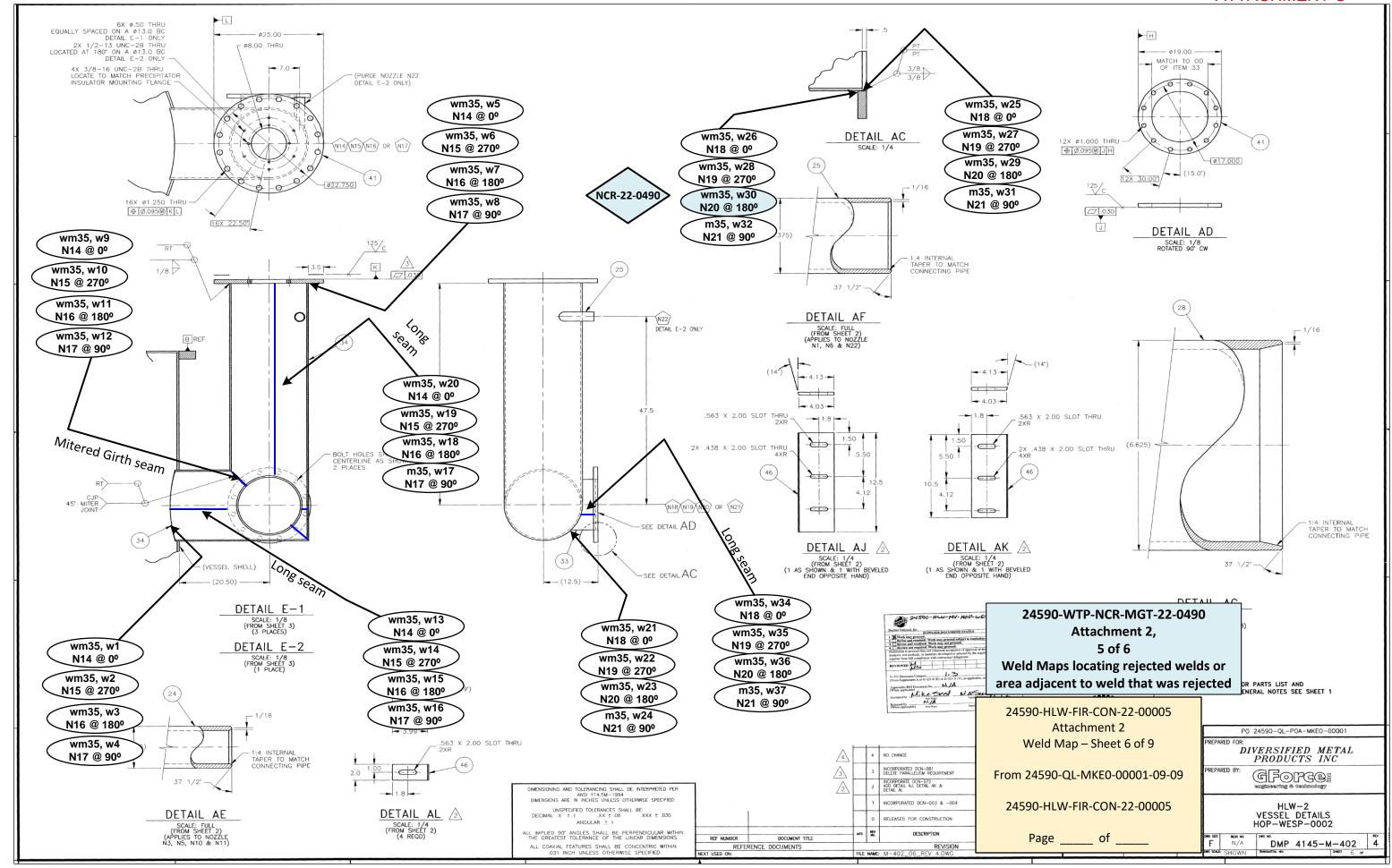
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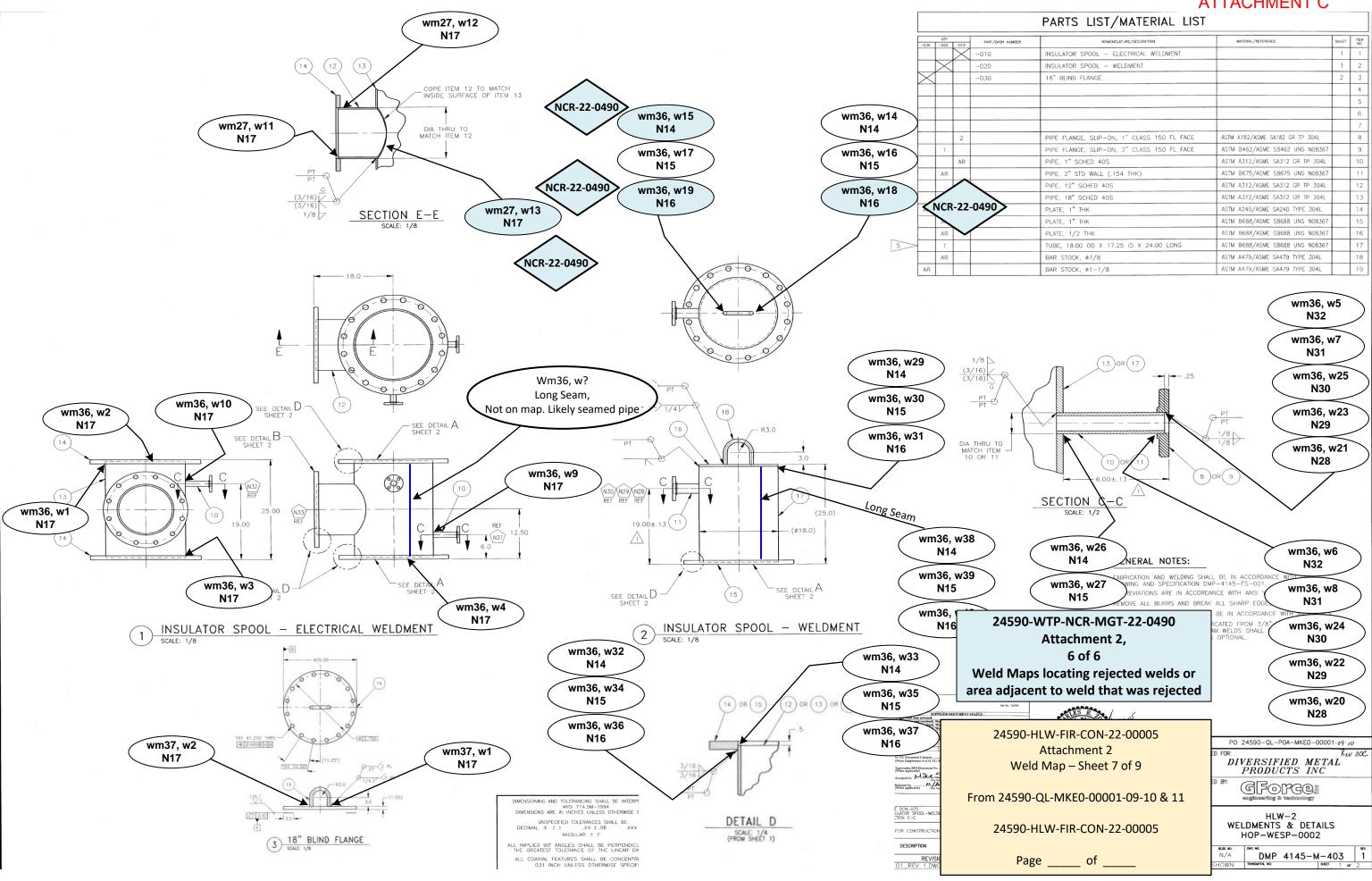












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•	Add	Notes			

kdasher@bechtel.us	1	Diversified Metal Products Inc	
Contract Number / Purchase	Quality Level	Custody Currently With	
Order	Q	Construction	
24590-QL-POA-MKE0-00001			
ASME Code Stamped Component	Suspect/Counterfeit?	Commissioning Breakdown Structure HLW/PTF	
or Assembly	No		
Yes			
Nonconformance Description			

#### Nonconformance Description

This NCR aims to consolidate the currently open issues with the HLW Wet Electrostatic Precipitators (WESPs) into one Nonconformance. This NCR has been created in accordance with Section 6.10 and Attachment 5 of 24590-HLW-GPP-RACN-FE-7104, HLW Nonconformance Reporting and Control. The HLW HOP WESP scope of the NCRs and CRs listed below are either superseded or closed by this NCR.

Note: This NCR only partially closes/supersedes all except Letter E and J

B) CA) CR 2013-00761:HLW-HOP Procurement Related Issues.

Action 7: Obtain documented determination from Electrical AHJ for removal of the UL requirements for cables rated over 35kV.

Action 33: Provide closure response for 8 RVP items listed in CCN 261879 indicated in the documents section titled, CR13-00761 #3 mech carryover items.pdf.

#### Condition Adverse to Quality:

RVP HOP-13-005 - The following Specifications and Drawings are outdated in MR 24590-QL-MRA-MKE0-00001 Rev 6 with no justification recorded within the MR or REM Report for the MR. See RVP for more information and full list of documents.

RVP HOP-13-023 - PARS Expediting Report for 24590-QL-POA-MKE0-00001, run on 12-17-2012, identified 4 issues with vendor submittals such as not receiving any submittals for some G-321E categories or incomplete submittals. See RVP for more information and full list of documents.

RVP HOP-13-032 - Vendor Submittal24590-QL-POA-MKE0-00001-27-00001 Rev A was issued as document Category 8.0 - Analysis and Design Report, which is inline with Form 15EX, but should also have been issued as document Category 34.0 since it addresses the requirements referenced in form G-321V Category 34.0 – Factory Acceptance Test (FAT) Report, of the MR.

RVP HOP-13-033 - Vendor Submittal24590-QL-POA-MKE0-00001-14-01 Rev B is assigned to incorrect Document Category1.2 in PATS Report for 24590-QL-POA-MKE0-00001, which indicates it is incorrectly logged in as Category 1.2 in InfoWorks since the PARS report is generated from InfoWorks. The correct Document Category for this vendor Submittal is Category 1.2 per Forms 15EX and Form G-321E of the MR.

Affected Items: HOP-WESP-00001

Original CR and its attachments can be found in Attachment Folder "CR 2013-00761".

B) CR 2014-00036: Issues identified against HLW VesselsHOP-WESP-00001 and HOP-WESP-00002 during HLW Black Cell and Hard-to-Reach Vessel Assessment, Documented in Report 24590-HLW-ES-ENG-13-001 Rev.0

Action3: Revise vendor calculations on HOP-WESP-00001 and 00002 to address many issues.

Condition Adverse to Quality:

Vessel weight is inconsistent across multiple documents. Code Calculations did not address nozzle neck analysis according to given specification. Disagreement of weld type between a calculation and drawing. Incorrect nozzle loads used in vendor nozzle neck analysis. Calculation is not in alignment with NQA-1requirements and WTP Calculation requirements. WESP "top hats" require analysis for ASME pressure boundary including weld sizing justification, flat plate(head) thickness checking and bolt sizing. Fatigue assessment required.

Affected Items: HOP-WESP-00001

Original CR can be found in Attachment Folder "CR 2014-0036".

C) CR 2018-00116: Equipment Penetrating Fire Barriers a Shielded Hatch Requirement Not Met [RVP]-HLW Split Actions 24, 25, 29 & 32from PIER 10-00129

Action4: Fire Barriers in the HLW Facility

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Condition Adverse to Quality: Fatigue analysis not completed or unsatisfactory for HLW components listed in Attachment A of 24590-WTP-PL-ENG-07-0005 Rev.3 and issue associated documentation (for example, calculation(s) addressing fatigue assessment).

Affected Items: HOP-WESP-00001

Original CR and its attachments can be found in Attachment Folder "CR 2020-00485".

E) NCR-CON-13-0157: Vendor Submittals for Vessel Not Reviewed By Independent Group

Description: The vendor submittals reviewed in this CDR (NCR) deal with seismic analysis of equipment. These reports were required to be reviewed by an independent group such as Equipment Seismic Qualification (ESQ) group or C/S/A engineering group in accordance with DOE standard 1020. However, this requirement was not followed and the reports were given approval Code Level 1. Therefore, a PIER was generated(24590-WTP-CRPT-QA-08-0406-B, "Inadequate Review of the Supplier Seismic Calc"). The PIER required that the ESQ group review these reports and prepare comments on Comment Resolution Forms (CRFs) and issue CDRs (NCRs) for resolving the comments. These forms are attached listing the deficiencies in the report. These forms also provide suggestions for resolution.

Additional Information: It is required that after the final disposition of this CDR (NCR), the document be sent to ESQ group for concurrence. ESQ group personnel dealing with CRPT08-0406 are located in the San Francisco office and they report to ESQ – Project Engineer located in the Richland office. The deficiencies are reported on the attached CRF's EQ Log 3842.

Nonconformance: Seismic Analysis was not reviewed by independent organization.

Recommended Disposition: Engineering to resolve the subject documentation deficiencies.

Affected Items: HOP-WESP-00001

Original NCR and its attachments can be found in Attachment Folder "NCR-CON-13-0157".

F) NCR-CON-13-0188: Vendor Submittals for Vessel Not Reviewed By Independent Group

Description: The vendor submittals reviewed in this CDR (NCR) deal with seismic analysis of equipment. These reports were required to be reviewed by an independent group such as Equipment Seismic Qualification (ESQ) group or C/S/A engineering group in accordance with DOE standard 1020. However, this requirement was not followed and the reports were given approval Code Level 1. Therefore a PIER was generated(24590-WTP-CRPT-QA-08-0406-B, "Inadequate Review of the Supplier Seismic Calc"). The PIER required that the ESQ group review these reports and prepare comments on Comment Resolution Forms (CRFs) and issue CDRs (NCRs) for resolving the comments. These forms are attached listing the deficiencies in the report. These forms also provide suggestions for resolution.

Additional Information: It is required that after the final disposition of this CDR (NCR), the document be sent to ESQ group for concurrence. ESQ group personnel dealing with CRPT08-0406 are located in the San Francisco office and they report to ESQ – Project Engineer located in the Richland office. The deficiencies are reported on the attached CRF's Log 3841, CRF's Log 3841A and CRF Log 3842.

Nonconformance: Seismic Analysis was not reviewed by independent organization.

Recommended Disposition: Engineering to resolve the subject documentation deficiencies.

Affected Items: HOP-WESP-00001

Original NCR and its attachments can be found in Attachment Folder "NCR-CON-13-0188".

G) NCR-CON-14-0018: HLW Wet Electrostatic Precipitator Internals Not Procured Under NQA-1Description: HLW Wet Electrostatic Precipitators (WESP) contain internals such as electrodes, collector tube bundles, and insulators as well as the power supplies that were procured as commercial items per the MR 24590-QL-MRA-MKE0-00001. These items are required to perform an air permit function which requires these items to be procured under an NQA-1 program – which did not occur. These items must be dedicated or shown to be able to meet their air permit function as is.

Additional Information: reference 24590-WTP-CRPT-QA-07-336, Action 17 this NCR is to track the resolution of the Non-conformance of the HLW items separately from the LAW and partially superseded 24590-WTP-NCR-CON-08-0119.

Nonconformance: Items not procured under NQA-1 as they should have due to air permit.

Recommended Disposition: Design Engineering to evaluate a provide final disposition, This NCR is similar to 24590-WTP-NCR-CON-08-0119, Reference notes and work already completed in order to resolve this NCR.

Affected Items: 24590-HLW-EK-LVE-PSUP-30004,HOP-WESP-00001, HOP-WESP-00001-SUB0010

Original NCR and its attachments can be found in Attachment Folder "NCR-CON-14-0018".

## In Progress 24590-WTP-NCR-MGT-24-0236

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New Interim Disposition

Add Notes

New Disposition

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Nonconformance: WESPs were incorrectly designed to SC-III instead of SC-I.

Recommended Disposition: Route to Engineering for evaluation and disposition.

Affected Items: HOP-WESP-00001

Original NCR can be found in Attachment Folder "NCR-CON-14-0022".

I) NCR-MGT-19-0796: HLW Corroded and Rusted Electrodes forHOP-WESP-00001 and HOP-WESP-00002

Description: Found 182 out of the 184 electrodes corroded and/or rusted during a storage surveillance, see attached pictures.

Nonconformance: Corrosion found on most electrodes.

Affected Items: HOP-WESP-00001-SUB0010

Original NCR and its attachments can be found in Attachment Folder "NCR-MGT-19-0796".

J) NCR-MGT-20-0086: HLW - Secondary doc Review Issues forHOP-WESP-00001 (NCR-CON-13-0045)

Description: This NCR supersedes 24590-WTP-NCR-CON-13-0045 for dispositions # 000, 110, 348, 396, 592, 752, and 838 for HLW scope ONLY. Disposition # 836 for LAW impacting is closed. Migration from CAIS to NCD.

A review of the quality verification documentation (QVD) package for the subject vessel was performed (Reference: 24590-WTP-PIER-MGT-11-0836-C,24590-WTP-GPG-PSQ-5002, and MRR-0017737 Rev 0.

(Note: 24590-WTP-GPG-PSQ-5002 was cancelled on 9/16/2014; current procedure is 24590-WTP-GPP-RAPS-SQ-1043, REVIEW OF QUALITY VERIFICATIONDOCUMENTATION, Revision 1 effective date 9/23/2019.)

- 1) The purpose of the review was to determine conformance of the QVD with the purchase order and specified requirements. It was found that the QVD submittal did not conform to all requirements as detailed below.
- 2) The review addressed 100 percent of the documentation required to be submitted under the G-321-V Form for activities including welding, nondestructive examinations (NDE), hydrostatic testing, positive materials identification (PMI), and material certifications and application as shown on the drawings. Related scope included record requirements such as legibility, SQR stamp, G-321-V form completion, PO revision, and correct DCN category.
- 3) The unsatisfactory and indeterminate findings are detailed in a combined PDF attachment to this NCR consisting of the following individual documents:
- 4) Review Result Summary for HOP-WESP-000015) Review Checklist for HOP-WESP-000016) See Notes below for details on how findings are identified and traceable to the QVD records.

#### Additional Information:

Note 1: Findings are identified by Document Category Number (DCN), description, and review checklist item number(s). Further detail may be found on the review checklist (CL) prepared during the review to tabulate and correlate the data.

Note 2: The HOP-WESP-00001 document package was paginated consecutively within the DCN category. References to these page numbers on the CL provide traceability to the relevant data.

Nonconformance: QVD submittal did not conform to all requirements.

Affected items: HOP-WESP-00001, Sub items see "Attachment1 (1)" from the Attachment Folder below.

Original NCR and its attachments can be found in Attachment Folder "NCR-MGT-20-0086".

K) NCR-MGT-20-0100: HLW – Vendor UT weld exams have indeterminate quality due to questionable procedure, HLW HOP vessels (NCR-CON-15-0035)

Description: This NCR supersedes 24590-WTP-NCR-CON-15-0035 for HLW ONLY. Disposition # 673 for LAW is complete. Migration from CAIS to NCD. Diversified Metal Fab Ultrasonic Testing (UT) Examination Procedure 24590-QL-POA-MKE0-00001-03-05, Rev. 00A, was submitted to BNI on, or about, March 24 2003. This procedure was reviewed by the Responsible Engineer (RE) and an NDE Level III, and designated Code 2, with comments by the NDE Level III indicating that the procedure required demonstration and the addition of the acceptance criteria to the procedure. On, or about, November 17, 2003DMP submitted UT Examination Procedure Rev 00B to BNI with only one of the two original comments satisfied. This submittal was code 1 by the RE without all of the appropriate requirements being added into this revision. This leaves High Nickel material welds which were examined with the above submittal (N5) indeterminate.

# In Progress 24590-WTP-NCR-MGT-24-0236

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New Interim Disposition

Add Notes

New Disposition

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Description: This NCR supersedes 24590-WTP-NCR-CON-14-0040 for the HLW & MHF facility only. Disposition #376 for LAW has been completed. Migration from CAIS to NCD. These seismic related vendor submittals were required to be reviewed by an independent group such as Equipment Seismic Qualification (ESQ) group, or CSA engineering, in accordance with DOE standard 1020. However, this requirement was not followed and the reports were given approval with code level 1. A PIER was thus generated (24590-WTP-CRPT-QA-08-0406-B, "Inadequate Review of the Supplier Seismic Calc"). The PIER requires that the ESQ group review these reports, prepare comments on Comment Resolution Forms (CRFs), and issue CDRs/NCRs for resolving the comments. Until these reports are reviewed & the comments resolved, it is indeterminate whether this equipment can withstand the required seismicload.

Additional Information: The ESQ group personnel dealing with CRPT 08-0406 are located in the San Francisco office and they report to the EQ Project engineer located in the Richlandoffice.

Nonconformance: Vendor Seismic Analysis not reviewed by independent group as required.

Disposition # 00004: This disposition partially supersedes disposition #002. Forward to engineering to evaluate HOP-WESP-00001 and HOP-WESP-00002Affected Items: HOP-WESP-00001Original NCR and its attachments can be found in Attachment Folder "NCR-MGT-20-0110".

M) NCR-MGT-23-0129: HLW - HOP-WESP-00001 & HOP-WESP-00002 RT film deficiencies

Description: RT film is not compliant with ASME Section V, Article 2 per 24590-HLW-FIR-CON-16-00124 and the discussion in the main CR description of CR 2017-01393. Some of the issues relate to required film density and the use/visibility of the image quality indicator (penetrometer).

Disposition: Route to Engineering for Disposition.

Affected Items: HOP-WESP-00001Original NCR can be found in Attachment Folder "NCR-MGT-23-0129".

#### **Additional Information**

NCRs MGT-22-0489 and MGT-22-0490 also pertain to the WESPs, however, work and/or dispositions have been completed so they have not been included in this compilation. CR 2016-01856 Action 2 is tied to these two NCRs and as such is not included in this compilation for the same reasons.

# In Progress 24590-WTP-NCR-MGT-24-0236

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24590-HLW-FIR-CON-16- 00124	NA	HOP-WESP-00001 AND 00002	FOR LETTER M
24590-QL-POA-MKE0- 00001-07-07	00C	CALCULATIONS - HLW-1 WESP PRESSURE VESSEL DESIGN	FOR LETTER L, LOG 3841A (FOR ESQ USE)
24590-QL-POA-MKE0- 00001-07-08	00A	CALCULATIONS - HLW-1 WESP ANALYSIS OF LIFTING TRUNNIONS, DMP-4145-CALC-023	FOR LETTER B
24590-QL-POA-MKE0- 00001-07-10	00D	CALCULATIONS - HLW-1 WESP PRESSURE VESSEL SKIRT DESIGN CALCULATIONS, DMP-4145-CALC-022	FOR LETTER B, L, LOG 3841A (FOR ESQ USE)
24590-QL-POA-MKE0- 00001-09-14	00F	DRAWING - HLW-1 VESSEL SUBASSEMBLY HOP-WESP-0001	FOR LETTER B, K, SEE NOTE 15 ON DRAWING
24590-QL-POA-MKE0- 00001-18-00002	00A	DATA SHEET - APPENDIX D - HLW - VENDOR DATA SHEET PRELIMINARY	FOR LETTER B
24590-WTP-3PS-EVR2- T0001	004	ENGINEERING SPECIFICATION FOR WET ELECTROSTATIC PRECIPITATOR (WESP) POWER SUPPLY	FOR LETTER I
24590-WTP-3PS-FB01- T0001	007	ENGINEERING SPECIFICATION FOR STRUCTURAL DESIGN LOADS FOR SEISMIC CATEGORY III AND IV EQUIPMENT AND TANKS	FOR LETTER I, rEV 001 FOR LETTERS E, G
24590-WTP-3PS-MKE0- T0001	005	ENGINEERING SPECIFICATION FOR WET ELECTROSTATIC PRECIPITATORS	FOR LETTER B, REV 004 FOR LETTER F
24590-WTP-3PS-MV00- T0002	001	ENGINEERING SPECIFICATION FOR SEISMIC QUALIFICATION CRITERIA FOR PRESSURE VESSELS	FOR LETTERS E, F
24590-WTP-3PS-MVB2- T0001	004	ENGINEERING SPECIFICATION FOR WELDING OF PRESSURE VESSELS, HEAT EXCHANGERS AND BOILERS	FOR LETTER J, REVISION FROM NCR-CON-13-0045, REV 001 FOR LETTER J
		EQUIPMENT PENETRATING FIRE BARIERS	

#### **Applicable Items**

Parent ID	Item Description	Item Location	Item Quantity
LVE-PSUP- 30004	HLW WET ELECTROSTATIC PRECIPITATOR, MELTER 1, POWER SUPPLY	JOBSITE	
HOP-WESP- 00001	HLW MELTER 1 OFFGAS WET ELECTROSTATIC PRECIPITATOR (WESP)	JOBSITE	1
HOP-WESP- 00001	ELECTRODES FOR HLW-1	JOBSITE	91
	LVE-PSUP- 30004 HOP-WESP- 00001 HOP-WESP-	LVE-PSUP- 30004  HLW WET ELECTROSTATIC PRECIPITATOR, MELTER 1, POWER SUPPLY  HOP-WESP- 00001  HOP-WESP- HLW MELTER 1 OFFGAS WET ELECTROSTATIC PRECIPITATOR (WESP)  FLECTRODES FOR HLW-1	LVE-PSUP- 30004 HLW WET ELECTROSTATIC PRECIPITATOR, MELTER 1, POWER SUPPLY HOP-WESP- 00001 HLW MELTER 1 OFFGAS WET ELECTROSTATIC PRECIPITATOR (WESP) HOP-WESP- ELECTRODES FOR HLW-1

#### **Condition Reports Associated with this NCR**

2013-00761, 2014-00036, 2018-00116, 2020-00485

Validator		Validation Date			
	Andrews, Paul	11/12/2024			

Validate and Screen

#### Step 1: Is the NCR valid?

Yes

#### **NCR Title**

HLW - HOP-WESP-00001 Open Issues

# In Progress 24590-WTP-NCR-MGT-24-0236

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Attach ...

## ATTACHMENT C

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Email	NCR Priority	Supplier/SubContractor
kdasher@bechtel.us	1	Diversified Metal Products, Inc
Contract Number / Purchase	Quality Level	Custody Currently With
Order	_ Q	Construction
24590-QL-POA-MKE0-00001		
<b>ASME Code Stamped Component</b>	Suspect/Counterfeit?	Commissioning Breakdown
or Assembly	No	Structure
Yes	_	HLW/PTF

#### **Nonconformance Description**

This NCR aims to consolidate the currently open issues with the HLW Wet Electrostatic Precipitators (WESPs) into one Nonconformance. This NCR has been created in accordance with Section 6.10 and Attachment 5 of 24590-HLW-GPP-RACN-FE-7104, HLW Nonconformance Reporting and Control. The HLW HOP-WESP-00002 scope of the NCRs and CRs listed below are either superseded or closed by this NCR. Note: This NCR only partially closes all except Letter E.

CR 2013-00761: HLW-HOP Procurement Related Issues.

Action 7: Obtain documented determination from Electrical AHJ for removal of the UL requirements for cables rated over 35kV.

Action 33: Provide closure response for 8 RVP items listed in CCN 261879 indicated in the documents section titled, CR13-00761 #3 mech carryover items.pdf.

Condition Adverse to Quality:

RVP HOP-13-005 – The following Specifications and Drawings

are outdated in MR 24590-QL-MRA-MKE0-00001 Rev 6 with no justification recorded within the MR or REM Report for the MR. See RVP for more information and full list of documents.

RVP HOP-13-023 – PARS Expediting Report for 24590-QL-POA-MKE0-00001, run on 12-17-2012, identified 4 issues with vendor submittals such as not receiving any submittals for some G-321E categories or incomplete submittals. See RVP for more information and full list of documents.

RVP HOP-13-032 – Vendor Submittal 24590-QL-POA-MKE0-00001-27-00001 Rev A was issued as document Category 8.0 – Analysis and Design Report, which is inline with Form 15EX, but should also have been issued as document Category 34.0 since it addresses the requirements referenced in form G-321V Category 34.0 – Factory Acceptance Test (FAT) Report, of the MR.

RVP HOP-13-033 – Vendor Submittal 24590-QL-POA-MKE0-00001-14-01 Rev B is assigned to incorrect Document Category 1.2 in PATS Report for 24590-QL-POA-MKE0-00001, which indicates it is incorrectly logged in as Category 1.2 in InfoWorks since the PARS report is generated from InfoWorks. The correct Document Category for this vendor Submittal is Category 1.2 per Forms 15EX and Form G-321E of the MR. Affected Items: HOP WESP-00002

Original CR and its attachments can be found in Attachment Folder "CR 2013-00761".

B) CR 2014-00036: Issues identified against HLW Vessels HOP-WESP-00001 and HOP-WESP-00002 during HLW Black Cell and Hard-to-Reach Vessel Assessment, Documented in Report 24590-HLW-ES-ENG-13-001 Rev.0

Action 3: Revise vendor calculations on HOP-WESP-00001 and 00002 to address many issues.

Condition Adverse to Quality:

Vessel weight is inconsistent across multiple documents. Code Calculations did not address nozzle neck analysis according to given specification. Disagreement of weld type between a calculation and drawing. Incorrect nozzle loads used in vendor nozzle neck analysis. Calculation is not in alignment with NQA-1 requirements and WTP Calculation requirements. WESP "top hats" require analysis for ASME pressure boundary including weld sizing justification, flat plate (head) thickness checking and bolt sizing. Fatigue assessment required.

Affected Items: HOP-WESP-00002

Original CR can be found in Attachment Folder "CR 2014-0036".

C) CR 2018-00116: Equipment Penetrating Fire Barriers a Shielded Hatch Requirement Not Met [RVP]-HLW Split Actions 24, 25, 29 & 32 from PIER 10-00129

Action 4: Fire Barriers in the HLW Facility

Condition adverse to quality:

Based on the results of Action 18 of PIER 10-0129, complete the calculations or engineering analyses for the items identified in the HLW facility as needing further calculations or engineering analyses in CCN 183772.

Affected Items: HOP-WESP-00002

Original CR can be found in Attachment Folder "CR 2018-00116".

D) CR 2020-00485: Split Action 2 from CR 14-1103 info HLW CR

Action 1: Complete fatigue assessment for applicable HLW components.

Condition Adverse to Quality:

Fatigue analysis not completed or unsatisfactory for HLW components listed in Attachment A of 24590-WTP-PL-ENG-07-0005 Rev.3 and issue

## In Progress 24590-WTP-NCR-MGT-24-0237

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by an independent group such as Equipment Seismic Qualification (ESQ) group or C/S/A engineering group in accordance with DOE standard 1020. However, this requirement was not followed, and the reports were given approval Code Level 1. Therefore, a PIER was generated (24590-WTP-CRPT-QA-08-0406-B, "Inadequate Review of the Supplier Seismic Calc"). The PIER required that the ESQ group review these reports and prepare comments on Comment Resolution Forms (CRFs) and issue CDRs (NCRs) for resolving the comments. These forms are attached listing the deficiencies in the report. These forms also provide suggestions for resolution.

Additional Information: It is required that after the final disposition of this CDR (NCR), the document be sent to ESQ group for concurrence. ESQ group personnel dealing with CRPT 08-0406 are located in the San Francisco office and they report to ESQ – Project Engineer located in the Richland office. The deficiencies are reported on the attached CRF's log 3841 and 3841A.

Nonconformance: Seismic Analysis was not reviewed by independent organization.

Recommended Disposition: Engineering to resolve the subject documentation deficiencies.

Affected Items: HOP-WESP-00002

Original NCR and its attachments can be found in Attachment Folder "NCR-CON-13-0156". NEED TO CREATE

F) NCR-CON-13-0188: Vendor Submittals for Vessel Not Reviewed By Independent Group

Description: The vendor submittals reviewed in this CDR (NCR) deal with seismic analysis of equipment. These reports were required to be reviewed by an independent group such as Equipment Seismic Qualification (ESQ) group or C/S/A engineering group in accordance with DOE standard 1020. However, this requirement was not followed, and the reports were given approval Code Level 1. Therefore, a PIER was generated (24590-WTP-CRPT-QA-08-0406-B, "Inadequate Review of the Supplier Seismic Calc"). The PIER required that the ESQ group review these reports and prepare comments on Comment Resolution Forms (CRFs) and issue CDRs (NCRs) for resolving the comments. These forms are attached listing the deficiencies in the report.

These forms also provide suggestions for resolution.

Additional Information: It is required that after the final disposition of this CDR (NCR), the document be sent to ESQ group for concurrence. ESQ group personnel dealing with CRPT 08-0406 are located in the San Francisco office and they report to ESQ – Project

Engineer located in the Richland office. The deficiencies are reported on the attached CRF's Log 3841, CRF's Log 3841A and CRF Log 3842.

Nonconformance: Seismic Analysis was not reviewed by independent organization.

Recommended Disposition: Engineering to resolve the subject documentation deficiencies.

Affected Items: HOP-WESP-00002

Original NCR and its attachments can be found in Attachment Folder "NCR-CON-13-0188".

G) NCR-CON-14-0018: HLW Wet Electrostatic Precipitator Internals Not Procured Under NQA-1

Description: HLW Wet Electrostatic Precipitators (WESP) contain internals such as electrodes, collector tube bundles, and insulators as well as the power supplies that were procured as commercial items per the MR 24590-QL-MRA-MKE0-00001. These items are required to perform an air permit function which requires these items to be procured under an NQA-1 program – which did not occur. These items

are required to perform an air permit function which requires these items to be procured under an NQA-1 program – which did not occur. These items must be dedicated or shown to be able to meet their air permit function as is.

Additional Information: reference 24590-WTP-CRPT-QA-07-336, Action 17 this NCR is to track the resolution of the Non-conformance of the HLW items separately from the LAW and partially superseded 24590-WTP-NCR-CON-08-0119.

Nonconformance: Items not procured under NQA-1 as they should have due to air permit.

Recommended Disposition:

Design Engineering to evaluate a provide final disposition, This NCR is similar to 24590-WTP-NCR-CON-08-0119, Reference notes and work already completed in order to resolve this NCR.

Affected Items: 24590-HLW-EK-LVE-PSUP-30007, HOP-WESP-00002, HOP-WESP-00002-SUB0005

Original NCR and its attachments can be found in Attachment Folder "NCR-CON-14-0018".

H) NCR-CON-14-0022: Vessels Not Designed To SC-1 Criteria

Description: Basis for Design (BOD) Section 16 requires that equipment located in Hard to Reach (HTR) areas shall be designed to SC-1 criteria. HOP-WESP-00001 and 00002 were designed to SC-III criteria. Validation that these vessels meet SC-1 criteria is required.

Additional Information: Wet Electrostatic Precipitators HOP-WESP-00001 and 00002 were designed to seismic category SC-III criteria in accordance with the requirements at the time of delivery per 24590-QL-MRA-MKE0-00001. The WESP units are located in a Hard to Reach (HTR) area which requires analysis to the SC-I criteria per the Basis of Design section 16. The latest seismic criteria (SC-I) was revised after the WESP units were delivered. Appropriate ISRS curves must be supplied, and vessel analyzed for acceptance to the SC-I seismic criteria. Vessels are delivered and the PO has been closed out. This NCR satisfies action 16 of 24590-WTP-PIER-MGT-10-1278-B.

Nonconformance: WESPs were incorrectly designed to SC-III instead of SC-I. Recommended Disposition: Route to Engineering for evaluation and disposition.

Affected Items: HOP-WESP-00002

Original NCR can be found in Attachment Folder "NCR-CON-14-0022".

I) NCR-MGT-19-0796: HLW Corroded and Rusted Electrodes for HOP-WESP-00001 and HOP-WESP-00002

Description: Found 182 out of the 184 electrodes corroded and/or rusted during a storage surveillance, see attached pictures.

Nonconformance: Corrosion found on most electrodes.

Affected Items: HOP-WESP-00002-SUB0005

Original NCR and its attachments can be found in Attachment Folder "NCR-MGT-19-0796".

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or about, November 17, 2003, DMP submitted UT Examination Procedure Rev 00B to BNI with only one of the two original comments satisfied. This submittal was code 1 by the RE without all of the appropriate requirements being added into this revision. This leaves High Nickel material welds which were examined with the above submittal (N5)

indeterminate.

Additional Information: This NCR is generated as a result of PIER 24590-WTP-PIER-MGT-14-1311-C.

Affected Items: HOP-WESP-00002, See attachments "24590-WTP-NCR-CON-15-0035\_HLD-05050\_05364.pdf" and "Attachment 1" from the Attachment Folder below.

Original NCR and its attachments can be found in Attachment Folder "NCR-MGT-20-0100".

K) NCR-MGT-20-0110: HLW – Vendor Submittals For Equipment Not Reviewed By Independent Group (NCR-CON-14-0040) Description: This NCR supersedes 24590-WTP-NCR-CON-14-0040 for the HLW & MHF facility only. Disposition #376 for LAW has been completed. Migration from CAIS to NCD.

These seismic related vendor submittals were required to be reviewed by an independent group such as Equipment Seismic Qualification (ESQ) group, or CSA engineering, in accordance with DOE standard 1020. However, this requirement was not followed and the reports were given approval with code level 1. A PIER was thus generated (24590-WTP-CRPT-QA-08-0406-B, "Inadequate Review of the Supplier Seismic Calc"). The PIER requires that the ESQ group review these reports, prepare comments on Comment Resolution Forms (CRFs), and issue CDRs/NCRs for resolving the comments. Until these reports are reviewed & the comments resolved, it is indeterminate whether this equipment can withstand the required seismic load.

Additional Information: The ESQ group personnel dealing with CRPT 08-0406 are located in the San Francisco office and they report to the EQ Project engineer located in the Richland office.

Nonconformance: Vendor Seismic Analysis not reviewed by independent group as required.

Disposition # 00004: This disposition partially supersedes disposition #002. Forward to engineering to evaluate HOP-WESP-00001 and HOP-WESP-00002

Affected Items: HOP-WESP-00002

Original NCR and its attachments can be found in Attachment Folder "NCR-MGT-20-0110".

L) NCR-MGT-23-0129: HLW - HOP-WESP-00001 & HOP-WESP-00002 RT film deficiencies

Description: RT film is not compliant with ASME Section V, Article 2 per 24590-HLW-FIR-CON-16-00124 and the discussion in the main CR description of CR 2017-01393. Some of the issues relate to required film density and the use/visibility of the image quality indicator (penetrometer).

Disposition: Route to Engineering for Disposition.

Affected Items: HOP-WESP-00002

Original NCR can be found in Attachment Folder "NCR-MGT-23-0129".

#### **Additional Information**

NCRs MGT-22-0489 and MGT-22-0490 also pertain to the WESPs, however, work and/or dispositions have been completed so they have not been included in this compilation. CR 2016-01856 Action 2 is tied to these two NCRs and as such is not included in this compilation for the same reasons.

Document Number	Rev	Document Title	Sections	Comments
Applicable Items				
Item Number	Parent ID	Item Description	Item Location	Item Quantity
Condition Reports Ass	ociated with thi	s NCR		
2013-00761, 2014-00036, 201	8-00116, 2020-004	85		
Validator	•	/alidation Date		
Andrews, Paul	1	1/12/2024		

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Step 3: Select the NCR Category
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Step 4: Stop Work?
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Is this NCR related to an electrical item?
Yes
Step 5. Please check each WTP Area that is affected by this NCR.
HLW
Step 6. Select the Disposition Approval Authority to notify.
Skiffington, Mark
Step 7. Select the RQO to notify.
Andrews, Paul
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Condition Reports
Condition Reports Associated with this NCR
Are there any Condition Reports associated with this CR? If applicable, identify any Condition Reports associated to this NCR in the Condition Report section below.
If there are no associated Condition Reports, please enter N/A.
Condition Reports Associated to this NCR
Condition Report Number
2013-00761
2014-00036
2018-00116
2020-00485

Standing/Shift Order Numbers

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If not applicable please enter N/A.

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