



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

May 22, 2018

Mr. Tony Frazier
Director of Quality Assurance/Quality Control
Turner Industries Group, L.L.C.
1200 19th Street S.W.
Paris, TX 75460

SUBJECT: TURNER INDUSTRIES GROUP, L.L.C. - PIPE FABRICATION DIVISION'S
NUCLEAR REGULATORY COMMISSION INSPECTION REPORT
NO. 99902059/2018-201

Dear Mr. Frazier:

On April 16-19, 2018, the U.S. Nuclear Regulatory Commission (NRC) staff conducted an inspection at the Turner Industries Group, L.L.C. - Pipe Fabrication Division's (here after referred to as Turner Industries) facility in Paris, TX. The purpose of this limited scope inspection was to assess Turner Industries' compliance with the provisions of Title 10 of the *Code of Federal Regulations* (10 CFR) Part 21, "Reporting of Defects and Noncompliance," and selected portions of Appendix B, "Quality Assurance Program Criteria for Nuclear Power Plants and Fuel Reprocessing Plants," to 10 CFR Part 50, "Domestic Licensing of Production and Utilization Facilities."

This technically-focused inspection specifically evaluated Turner Industries' implementation of the quality activities associated with the design and fabrication of the piping subassemblies for the Westinghouse Electric Company AP1000 reactor design. The enclosed report presents the results of this inspection. This NRC inspection report does not constitute NRC endorsement of your overall quality assurance (QA) or 10 CFR Part 21 programs.

During this inspection, the NRC staff inspected records associated with inspections, tests, analyses, and acceptance criteria (ITAAC) from Revision 19 to the certified AP1000 Design Control Document. Specifically, these activities were associated with ITAACs 2.2.01.02b, 2.2.01.03b, and 2.2.01.04b for the Vogtle Electric Generating Plant Units 3 and 4. The NRC inspection team did not identify any findings associated with the ITAAC contained in Section 3 of the attachment to this report.

Based on the results of this inspection, the NRC inspection team found the implementation of your QA program met the requirements imposed on you by your customers or NRC licensees. No findings of significance were identified.

In accordance with 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding," of the NRC's "Rules of Practice," the NRC will make available electronically for public inspection a copy of this letter, its enclosure, and your response through the NRC Public Document Room or from the NRC's Agencywide Documents Access and Management System, which is accessible at <http://www.nrc.gov/reading-rm/adams.html>. To the extent possible, your response (and if applicable), should not include any personal privacy, proprietary, or Safeguards

Information so that it can be made available to the public without redaction. If personal privacy or proprietary information is necessary to provide an acceptable response, please provide a bracketed copy of your response that identifies the information that should be protected and a redacted copy of your response that deletes such information. If you request that such material be withheld from public disclosure, you must specifically identify the portions of your response that you seek to have withheld and provide in detail the bases for your claim (e.g., explain why the disclosure of information would create an unwarranted invasion of personal privacy or provide the information required by 10 CFR 2.390(b) to support a request for withholding confidential commercial or financial information). If Safeguards Information is necessary to provide an acceptable response, please provide the level of protection described in 10 CFR 73.21, "Protection of Safeguards Information: Performance Requirements."

Sincerely,

/RA/

Terry W. Jackson, Chief
Quality Assurance Vendor Inspection Branch-1
Division of Construction Inspection
and Operational Programs
Office of New Reactors

Docket No.: 99902059

EPID No.: I-2018-201-0026

Enclosure:
Inspection Report No. 99902059/2018-201

SUBJECT: TURNER INDUSTRIES GROUP, L.L.C. - PIPE FABRICATION DIVISION'S
 NUCLEAR REGULATORY COMMISSION INSPECTION REPORT
 NO. 99902059/2018-201 Dated: May 22, 2018

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**U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF NEW REACTORS
DIVISION OF CONSTRUCTION INSPECTION AND OPERATIONAL PROGRAMS
VENDOR INSPECTION REPORT**

Docket No.: 99902059

Report No.: 99902059/2018-201

Vendor: Turner Industries Group, L.L.C. - Pipe Fabrication Division
1200 19th Street S.W.
Paris, TX 75460

Vendor Contact: Mr. Tony Frazier
Director of Quality Assurance/Quality Control
Email: Tfrazier1@turner-industries.com
Phone: 1-903-737-6290

Nuclear Industry Activity: Turner Industries Group, L.L.C. - Pipe Fabrication Division (here after referred to as Turner Industries), is an American Society of Mechanical Engineers Boiler and Pressure Vessel Code Certificate Holder holding an NA, NPT, and NS stamp. Turner Industries' scope of supply is as follows: the NPT stamp allows for fabricating piping spools for nuclear facilities; the NA stamp allows for the assembly of piping spools with valves or any other add-ons; and the NS stamp allows the fabrication and attachment of supports to nuclear piping spools.

Inspection Dates: April 16-19, 2018

Inspectors: Yamir Diaz-Castillo NRO/DCIP/QVIB-1 Team Leader
Edgardo Torres-Collazo NRO/DCIP/QVIB-1
Raju Patel NRO/DCIP/QVIB-2
John P. Burke NRO/DCIP/CIPB
John Honcharik NRO/DEI/MCB
David M. Harmon RII/DCO/IB2

Approved by: Terry W. Jackson, Chief
Quality Assurance Vendor Inspection Branch-1
Division of Construction Inspection
and Operational Programs
Office of New Reactors

Enclosure

EXECUTIVE SUMMARY

Turner Industries Group, L.L.C. - Pipe Fabrication Division
99902059/2018-201

The U.S. Nuclear Regulatory Commission (NRC) staff conducted a vendor inspection at the Turner Industries Group, L.L.C. - Pipe Fabrication Division's (here after referred to as Turner Industries), facility in Paris, TX, to verify that it had implemented an adequate quality assurance (QA) program that complies with the requirements of Appendix B, "Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants," to Title 10 of the Code of Federal Regulations (10 CFR) Part 50, "Domestic Licensing of Production and Utilization Facilities." In addition, the NRC inspection also verified that Turner Industries implemented a program under 10 CFR Part 21, "Reporting of Defects and Noncompliance." Furthermore, the NRC inspection team verified that Turner Industries had implemented a program in accordance with the applicable requirements of Subsection NCA, "General Requirements for Division 1 and Division 2," of Section III, "Rules for Construction of Nuclear Facility Components," Subsection NB, "Class 1 Components," Subsection NC, "Class 2 Components," and Subsection ND, "Class 3 Components," of Section III, Section V, "Nondestructive Examination," and Section IX, "Welding and Brazing Qualification," of the American Society of Mechanical Engineers Boiler and Pressure Vessel Code, 1998 Edition, 2000 Addenda, and the American Society for Nondestructive Testing SNT-TC-1A, "Personnel Qualification and Certification in Nondestructive Testing."

This technically-focused inspection specifically evaluated Turner Industries' implementation of the quality activities associated with the design and fabrication of the piping subassemblies for the Westinghouse Electric Company AP1000 reactor design. Specific activities observed by the NRC inspection team included:

- Cold pipe bending, visual inspection (VT), and ultrasonic testing (UT) thickness measurement of a piping spool for the Passive Containment Cooling System (PCS) for Vogtle Electric Generating Plant (here after referred to as Vogtle) Unit 3
- Final cleaning and final inspection of a piping spool for the PCS for Vogtle Unit 4
- Marking, tagging, and shipment preparation for eight piping sub-assemblies for Vogtle Units 3 and 4
- Fit-up and fit-up inspection, welding of stainless steel, VT and liquid penetrant inspection of a pipe to valve butt weld for the Passive Core Cooling System (PXS) Vogtle Unit 4
- Welding of a stainless steel socket weld for a piping spool for the PXS for Vogtle Unit 4
- Corrective Action Program Condition Action Reports' Screening Meeting

In addition to observing these activities, the NRC inspection team verified that measuring and test equipment (M&TE) was properly identified, marked, calibrated, and used within its calibrated range.

These regulations served as the bases for the NRC inspection:

- Appendix B to 10 CFR Part 50
- 10 CFR Part 21

During the course of this inspection, the NRC inspection team implemented Inspection Procedure (IP) 36100, "Inspection of 10 CFR Part 21 and Programs for Reporting Defects and Noncompliance," dated February 13, 2012; IP 43002, "Routine Inspections of Nuclear Vendors," dated January 27, 2017; and IP 43004, "Inspection of Commercial-Grade Dedication Programs," dated January 27, 2017.

The NRC inspection team determined that Turner Industries established appropriate programs for training and qualification; 10 CFR Part 21; design control; commercial-grade dedication; procurement document control; control of equipment, materials, and services; identification and control of materials, parts, and components; control of special processes; inspection; control of M&TE; handling, storage, and shipping; nonconforming material, parts, or components; corrective action; and internal audits in accordance with the applicable regulatory requirements of Appendix B to 10 CFR Part 50. Based on the limited sample of documents reviewed and activities observed, the NRC inspection team also determined that Turner Industries is implementing its policies and procedures associated with these programs. No findings of significance were identified.

REPORT DETAILS

1. 10 CFR Part 21 Program

a. Inspection Scope

The NRC inspection team reviewed Turner Industries policies and implementing procedures that govern Turner Industries' 10 CFR Part 21, "Reporting of Defects and Noncompliance," program to verify compliance with the regulatory requirements. In addition, the NRC inspection team evaluated the 10 CFR Part 21 postings and a sample of Turner Industries' purchase orders (PO) for compliance with the requirements of 10 CFR 21.21, "Notification of Failure to Comply or Existence of a Defect and its Evaluation," and 10 CFR 21.31, "Procurement Documents." The NRC inspection team also verified that Turner Industries' nonconformance and corrective action procedures provide a link to the 10 CFR Part 21 program.

At the time of the inspection, Turner Industries had not performed any evaluations under 10 CFR Part 21.

The NRC inspection team also discussed the 10 CFR Part 21 program with Turner Industries' management and technical staff. The attachment to this inspection report lists the documents reviewed by the NRC inspection team.

b. Observations and Findings

No findings of significance were identified.

c. Conclusion

The NRC inspection team concluded that Turner Industries established its 10 CFR Part 21 program in accordance with the regulatory requirements of 10 CFR Part 21. Based on the limited sample of documents reviewed, the NRC inspection team also determined that Turner Industries is implementing its policies and procedures associated with the 10 CFR Part 21 program. No findings of significance were identified.

2. Design Control and Commercial-Grade Dedication

a. Inspection Scope

The NRC inspection team reviewed Turner Industries' policies and implementing procedures that govern the design control and commercial-grade dedication programs to verify compliance with the regulatory requirements of Criterion III, "Design Control," of Appendix B, "Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants," to 10 CFR Part 50, "Domestic Licensing of Production and Utilization Facilities."

The NRC inspection team reviewed a sample of design specifications, shop drawings, shop travelers, and request for information (RFIs) to verify that relevant technical requirements associated with fabrication of the pipe sub-assemblies for the AP1000 reactor design had been correctly translated from the design documents into procurement specifications and fabrication packages.

The NRC inspection team verified that shop drawings prepared by Turner Industries for fabrication of the pipe subassemblies were consistent with the engineering drawings, construction specifications, and quality assurance (QA) requirements, including any relevant Engineering and Design Coordination Reports (E&DCRs). The NRC inspection team also confirmed that any inconsistencies or errors on the engineering drawings identified by Turner Industries' engineering staff were addressed through the RFI process and any design changes were adequately documented using the E&DCR process.

In addition, the NRC inspection team reviewed Turner Industries' program for the dedication of commercial-grade items for use in safety-related applications to verify its compliance with the applicable regulatory requirements. This assessment included a review of the policies and procedures governing the implementation of commercial-grade dedication (CGD) activities, interviews with Turner Industries' personnel, and review of related documentation. Specifically, for the CGD of the vacuum annealing process, the NRC inspection team evaluated the criteria for the identification of item functions, credible failure mechanisms/modes, selection of critical characteristics and acceptance criteria, and the identification of methods to verify effective implementation of Turner Industries' dedication process.

The NRC inspection team also discussed the design control and commercial-grade dedication programs with Turner Industries' management and technical staff. The attachment to this inspection report lists the documents reviewed by the NRC inspection team.

b. Observations and Findings

No findings of significance were identified.

c. Conclusion

The NRC inspection team concluded that Turner Industries established its design control and commercial-grade dedication programs in accordance with the regulatory requirements of Criterion III of Appendix B to 10 CFR Part 50. Based on the limited sample of documents reviewed, the NRC inspection team also determined that Turner Industries is implementing its policies and procedures associated with the design control and commercial-grade dedication programs. No findings of significance were identified.

3. Supplier Oversight and Internal Audits

a. Inspection Scope

The NRC inspection team reviewed Turner Industries' policies and implementing procedures that govern the implementation of its supplier oversight and internal audits programs to verify compliance with the requirements of Criterion IV, "Procurement Document Control;" Criterion VII, "Control of Purchased Material, Equipment, and Services;" and Criterion XVIII, "Internal Audits," of Appendix B to 10 CFR Part 50.

For the sample of POs reviewed, the NRC inspection team verified the POs included, as appropriate, the applicable technical and quality requirements. In addition, the NRC inspection team verified that for the sample of receipt inspection records reviewed

(e.g., receipt inspection reports, Certificates of Conformance, Certificate of Calibration, and Certified Material Test Reports (CMTRs)), these records were (1) reviewed by Turner Industries for compliance with the requirements of the POs, and (2) the records contained the applicable technical and regulatory information. For the sample of external and internal audits reviewed, the NRC inspection team verified the audit reports included an audit plan, any findings identified, adequate documented objective evidence of compliance with the applicable requirements, and a review by Turner Industries' responsible management. In addition, the NRC inspection team also verified the external and internal audits were performed by qualified auditors and, in the case of the internal audits, these audits were performed by personnel not having direct responsibilities in the areas being audited. Furthermore, the NRC inspection team reviewed a sample of training and qualification records of Turner Industries' lead auditors, auditors, and technical specialists to confirm that auditing personnel and technical specialists had completed all the required training and had maintained the applicable qualification and certification in accordance with Turner Industries' policies and procedures.

The NRC inspection team also discussed the supplier oversight and internal audits programs with Turner Industries' management and technical staff. The attachment to this inspection report lists the documents reviewed by the NRC inspection team.

b. Observations and Findings

No findings of significance were identified.

c. Conclusion

The NRC inspection team concluded that Turner Industries established its supplier oversight and internal audits programs in accordance with the regulatory requirements of Criterion IV, Criterion VII, and Criterion XVIII of Appendix B to 10 CFR Part 50. Based on the limited sample of documents reviewed, the NRC inspection team also determined that Turner Industries is implementing its policies and procedures associated with the supplier oversight and internal audits programs. No findings of significance were identified.

4. Material Traceability

a. Inspection Scope

The NRC inspection team reviewed Turner Industries' policies and implementing procedures that govern the material traceability program to verify compliance with the regulatory requirements of Criterion VIII, "Identification and Control of Material, Parts, and Components," of Appendix B to 10 CFR Part 50.

The NRC inspection team performed a walk-through of Turner Industries' fabrication areas and verified that raw materials, parts, and instruments used for safety-related nuclear work were marked with a heat or sketch number to maintain traceability of the materials during the fabrication process. The NRC inspection team verified the material was traceable to a Turner Industries' PO and/or a vendor CMTR.

The NRC inspection team also discussed the material traceability program with Turner Industries' management and technical staff. The attachment to this inspection report lists the documents reviewed by the NRC inspection team.

b. Observation and Findings

No findings of significance were identified.

c. Conclusion

The NRC inspection team concluded that Turner Industries established its material traceability program in accordance with the regulatory requirements of Criterion VIII of Appendix B to 10 CFR Part 50. Based on the limited sample of documents reviewed, the NRC inspection team also determined that Turner Industries is implementing its policies and procedures associated with the material traceability program. No findings of significance were identified.

5. Manufacturing Control

a. Inspection Scope

The NRC inspection team reviewed Turner Industries' policies and implementing procedures that govern the control of special processes to verify compliance with the regulatory requirements of:

- Criterion IX, "Control of Special Processes," of Appendix B to 10 CFR Part 50
- Subsection NCA, "General Requirements for Division 1 and Division 2," of Section III, "Rules for Construction of Nuclear Facility Components" of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel (B&PV) Code, 1998 Edition, 2000 Addenda
- Subsections NB, "Class 1 Components," NC, "Class 2 Components," and ND, "Class 3 Components," of Section III Section V, "Nondestructive Examination," of the ASME B&PV Code, 1998 Edition, 2000 Addenda
- Section IX, "Welding and Brazing Qualification," of the ASME B&PV Code, 1998 Edition, 2000 Addenda
- American Society for Nondestructive Testing (ASNT) SNT-TC-1A, "Personnel Qualification and Certification in Nondestructive Testing."

For welding activities, the NRC inspection team reviewed shop travelers, weld procedure specifications (WPS), and supporting procedure qualification records (PQRs). The NRC inspection team reviewed the processes for controlling weld filler metal and cleanliness of piping components to applicable procedures and design specifications.

For non-destructive examination activities (NDE), the NRC inspection team reviewed Visual Examination (VT), liquid penetrant testing (PT), Magnetic Particle (MT), Radiographic (RT) procedures, and Level II and Level III inspector qualifications.

The NRC inspection team witnessed manual Gas Tungsten Arc Welding (GTAW) on a 1-inch stainless steel valve to pipe butt weld for Vogtle Generating Plant (here after referred to as Vogtle) Unit 4 and on a 1-inch stainless steel piping socket weld for Vogtle Unit 4. The NRC inspection team verified the WPS, "P-8-GT-1," Revision 9, was qualified in accordance with the requirements of Sections III and IX of the ASME B&PV Code and the PQRs. The NRC inspection team verified the PQRs met the requirements of Section IX of the ASME B&PV Code. The NRC inspection team also observed appropriate cleaning during welding was performed in accordance with applicable Turner Industries' procedures.

The NRC inspection team verified the applicable welding data; such as weld material and heat/lot number, WPS, inspection procedures used, and the final inspection results were recorded in accordance with the applicable Turner Industries procedures and instructions. The welding data was recorded on the associated weld record for each weld joint along with the applicable NDE results.

The NRC inspection team also observed the weld material storage and verified that weld material was adequately controlled in accordance with Turner Industries procedures and within the requirements of the applicable filler metal specification and of Section III of the ASME B&PV Code. The NRC inspection team verified that weld material was controlled at all times until its consumption.

The NRC inspection team witnessed the following:

- VT inspection and PT inspection of Welds 2, 3 and 4 on Shop Traveler No. SV4-PXS-PLW-52D-1A, Sketch 88 for Vogtle Unit 4
- UT thickness measurement on Shop Traveler No. SV3-PCS-PLW-838-1, Sketch 23 for Vogtle Unit 3
- Fit-up inspection of pipe-to-valve weld on Shop Traveler No. SV4-PXS-PLW-52D-1A, Sketch 88 for Vogtle Unit 4

The NRC inspection team verified the examinations were performed by qualified personnel and qualified procedures in accordance with the requirements of Section III of the ASME B&PV Code. The NRC inspection team also verified the examinations were performed by qualified personnel and qualified procedures in accordance with the requirements of Sections III and V of the ASME B&PV Code, and ASNT SNT-TC-1A.

The NRC inspection team reviewed the associated welder qualification records and confirmed the welders had completed the required training and had maintained their qualifications in accordance with Turner Industries procedures. The NRC inspection team also verified the applicable procedure for welder qualification meets the applicable requirements of Sections III and IX of the ASME B&PV Code.

The NRC inspection team reviewed Turner Industries' procedures for VT, PT, MT and RT inspections, and verified they were consistent with the applicable ASME B&PV Code requirements. The NRC inspection team also reviewed the Level III non-destructive examiner and Level II non-destructive inspector qualification records and confirmed they

were qualified in accordance with the requirements in ASNT SNT-TC-1A and had sufficient training and previous inspection experience.

The NRC inspection team also discussed the manufacturing control program with Turner Industries' management and technical staff. The attachment to this inspection report lists the documents reviewed by the NRC inspection team.

b. Observation and Findings

No findings of significance were identified.

c. Conclusion

The NRC inspection team concluded that Turner Industries established its manufacturing control program in accordance with the regulatory requirements of Criterion IX of Appendix B to 10 CFR Part 50. Based on the limited sample of documents reviewed, the NRC inspection team also determined that Turner Industries is implementing its policies and procedures associated with the manufacturing control program. No findings of significance were identified.

6. Inspection

a. Inspection Scope

The NRC inspection team reviewed Turner Industries' policies and implementing procedures that govern the inspection program to verify compliance with the regulatory requirements of Criterion X, "Inspection," of Appendix B to 10 CFR Part 50.

The NRC inspection team verified that Turner Industries' procedures for inspection activities provided measures for the generation of inspection documents, such as shop travelers, instructions, or other appropriate means. For a sample of shop travelers and as-built drawings, the NRC inspection team verified these documents included the appropriate information as required by Turner Industries' procedures such as the heat numbers, welding material, welding procedures, inspection date, results of examination, and the initials/signature of the Quality Control (QC) inspector. The NRC inspection team also verified that mandatory hold points were indicated and that work did not proceed without appropriate approval.

The NRC inspection team verified that inspections are performed by qualified persons other than those who performed or directly supervise the work being inspected and the documents included appropriate information as required by Turner Industries' procedures such as inspection date, observations, results of examinations and tests, and the appropriate signature and/or initials of the QC inspector. The NRC inspection team verified the inspections were performed by qualified personnel and followed approved policies and procedures, and specific part numbers and heat numbers were traceable to the raw material purchased or supplied from the suppliers and maintained throughout the production process.

The NRC inspection team also discussed the inspection program with Turner Industries' management and technical staff. The attachment to this inspection report lists the documents reviewed by the NRC inspection team.

b. Observation and Findings

No findings of significance were identified.

c. Conclusion

The NRC inspection team concluded that Turner Industries established its inspection program in accordance with the regulatory requirements of Criterion X of Appendix B to 10 CFR Part 50. Based on the limited sample of documents reviewed, the NRC inspection team also determined that Turner Industries is implementing its policies and procedures associated with the material traceability program. No findings of significance were identified.

7. Control of Measuring and Test Equipment

a. Inspection Scope

The NRC inspection team reviewed Turner Industries' policies and implementing procedures that govern the measuring and test equipment (M&TE) program to verify compliance with the requirements of Criterion XII, "Control of Measuring and Test Equipment," of Appendix B to 10 CFR Part 50.

For a sample of M&TE used in some of the activities observed, the NRC inspection team determined the M&TE had the appropriate calibration stickers and current calibration dates, including the calibration due date. The NRC inspection team also verified the M&TE had been calibrated, adjusted, and maintained at prescribed intervals prior to use. In addition, the calibration records reviewed by the NRC inspection team indicated the as-found or as-left conditions, accuracy required, calibration results, calibration dates, and the due date for recalibration. The NRC inspection team also verified the M&TE was being stored adequately to maintain control and accuracy.

The NRC inspection team also discussed the M&TE program with Turner Industries' management and technical staff. The attachment to this inspection report lists the documents reviewed by the NRC inspection team.

b. Observations and Findings

No findings of significance were identified.

c. Conclusion

The NRC inspection team concluded that Turner Industries established its M&TE program in accordance with the regulatory requirements of Criterion XII of Appendix B to 10 CFR Part 50. Based on the limited sample of documents reviewed, the NRC inspection team also determined that Turner Industries is implementing its policies and procedures associated with the M&TE program. No findings of significance were identified.

8. Handling, Storage, and Shipping

a. Inspection Scope

The NRC inspection team reviewed Turner Industries' policies and implementing procedures that govern the handling, storage, and shipping program to verify compliance with the regulatory requirements of Criterion XIII, "Handling, Storage, and Shipping," of Appendix B to 10 CFR Part 50.

The NRC inspection team performed a walk-through of Turner Industries' fabrication facility, observed the storage of pipe sub-assemblies, weld materials, in-process and finished pipe sub-assemblies to verify that materials, parts, and components were either marked with a part number, material specification, heat number/heat code, or serial number and had shop travelers identifying their fabrication process status. The NRC inspection team observed that all tools, wire brushes, gages and equipment for handling, and storage devices were of stainless steel marked with red color to prevent stainless steel from contamination with carbon steel. The finished pipe sub-assemblies were protected from dust, grease or other contamination by having their ends covered with plastic covers and valves wrapped in plastic.

In addition, the NRC inspection team reviewed Turner Industries' handling equipment maintenance program and verified the jib cranes used for handling safety-related pipe sub-assemblies were verified daily and quarterly maintained to assure they were in good working conditions and safe to operate. Furthermore, the NRC inspection team performed a walk-through of Turner Industries' QA records storage room and verified that it meets the 2-hour fire-proof requirement, is equipped with a fire sprinkler system and its environment is being monitored and recorded daily using calibrated equipment.

The NRC inspection team also discussed the handling, storage, and shipping program with Turner Industries' management and technical staff. The attachment to this inspection report lists the documents reviewed by the NRC inspection team.

b. Observation and Findings

No findings of significance were identified.

c. Conclusion

The NRC inspection team concluded that Turner Industries established its handling, storage, and shipping program in accordance with the regulatory requirements of Criterion XIII of Appendix B to 10 CFR Part 50. Based on the limited sample of documents reviewed, the NRC inspection team also determined that Turner Industries is implementing its policies and procedures associated with the handling, storage, and shipping program. No findings of significance were identified.

9. Nonconforming Materials, Parts, or Components and Corrective Action

a. Inspection Scope

The NRC inspection team reviewed Turner Industries' policies and implementing procedures that govern the nonconformances and corrective action programs to verify compliance with the requirements of Criterion XV, "Nonconforming Materials, Parts, or Components," and Criterion XVI, "Corrective Action," of Appendix B to 10 CFR Part 50.

The NRC inspection team reviewed a sample of nonconformance reports (NCRs) to verify that Turner Industries: (1) dispositioned the NCRs in accordance with the applicable procedures, (2) documented an appropriate technical justification for various dispositions, and (3) took adequate corrective action with regard to the nonconforming items. For NCRs that were dispositioned use-as-is, the NRC inspection team confirmed the technical justifications were documented to verify the acceptability of the nonconforming item. The NRC inspection team also verified that NCRs provide a link to the 10 CFR Part 21 program.

The NRC inspection team also reviewed a sample of corrective action reports (CARs) to ensure that conditions adverse to quality were promptly identified and corrected. The NRC inspection team verified the CARs provided: (1) adequate documentation and description of conditions adverse to quality, (2) an appropriate analysis of the cause of these conditions and the corrective actions taken to prevent recurrence, as applicable, (3) direction for review and approval by the responsible authority, (4) a description of the current status of the corrective actions, and (5) the follow-up actions taken to verify timely and effective implementation of the corrective actions. In addition, the NRC inspection team verified that Turner Industries' CARs provide a link to the 10 CFR Part 21 program.

In addition, the NRC inspection team observed a CARs screening meeting. This meeting is conducted once or twice per week, depending on the number of CARs generated. During the meeting, CARs are assigned an owner, quality classification, a significance level, and analysis method. Potential Part 21 applicability is assessed during the meeting.

The NRC inspection team also discussed the nonconforming materials, parts, or components and corrective action programs with Turner Industries' management and technical staff. The attachment to this inspection report lists the documents reviewed by the NRC inspection team.

b. Observations and Findings

No findings of significance were identified.

c. Conclusion

The NRC inspection team concluded that Turner Industries established its nonconforming materials, parts, or components and corrective action programs in accordance with the regulatory requirements of Criterion XV and Criterion XVI of Appendix B to 10 CFR Part 50. Based on the limited sample of documents reviewed, the NRC inspection team also determined that Turner Industries is implementing its

policies and procedures associated with the nonconformance and corrective action programs. No findings of significance were identified.

10. Entrance and Exit Meetings

On April 16, 2018, the NRC inspection team discussed the scope of the inspection with Mr. Warren E. Landry, Executive Vice President/General Manager, and other members of Turner Industries' management and technical staff. On April 19, 2018, the NRC inspection team presented the inspection results and observations during an exit meeting with Mr. Chris Bailey, Vice President/Plant Manager and other members of Turner Industries' management and technical staff. The attachment to this report lists the attendees of the entrance and exit meetings, as well as those individuals whom the NRC inspection team interviewed.

ATTACHMENT

1. ENTRANCE/EXIT MEETING ATTENDEES

Name	Title	Affiliation	Entrance	Exit	Interviewed
Warren Landry	Executive Vice President/ General Manager	Turner Industries	X		
Chris Bailey	Vice President/ Plant Manager	Turner Industries	X	X	
Raymond Reamey	Quality Services Director	Turner Industries		X	
Tony Frazier	Director of Quality Assurance (QA)/ Quality Control (QC)	Turner Industries	X	X	X
Glenn Catalano	ASME III QA/QC Manager	Turner Industries	X	X	X
Thomas Glascock III	Engineering Manager	Turner Industries	X		
Terry Strickland	Materials Manager	Turner Industries	X	X	
Sherry C. Bailey	Procurement Manager	Turner Industries	X		
Ron Hicks	Material Take Off Manager	Turner Industries	X	X	
Brian Putman	Nuclear Document Control manager	Turner Industries	X	X	X
Khushrooh Pardiwalla	Bending Manager	Turner Industries	X	X	
Ricky Hutchings	Site Superintendent	Turner Industries	X	X	
David McCullen	Health and Safety Manager	Turner Industries	X		
Jeff Hurst	Project Manager	Turner Industries	X	X	
Josh Brewer	Project Manager	Turner Industries	X	X	
Renee Griffin	Human Resources Manager	Turner Industries	X	X	

Name	Title	Affiliation	Entrance	Exit	Interviewed
Stacy Robinson	Human Resources	Turner Industries	X	X	
Jorge Castillo	QA/QC Specialist	Turner Industries		X	
Caleb Brewer	Project Engineer	Turner Industries		X	
Brenda Sandford	Lead Auditor/QA Specialist	Turner Industries		X	X
Sunny Catalano	Lead Auditor/QA Specialist	Turner Industries		X	X
Scott Ashmore	QC Supervisor	Turner Industries			X
Ronnie Bratchet	QC Inspector	Turner Industries			X
Richard Cannella	QC Inspector	Turner Industries			X
Robert Reed	QC Inspector	Turner Industries			X
Brandon Smith	Welder	Turner Industries			X
Wesley Tingen	Welder	Turner Industries			X
Colton Webb	Welder	Turner Industries			X
James Flood	Bender	Turner Industries			X
Charles Gilbert	Non-Destructive Examination Level III	Turner Industries			X
Mike Sanford	Product Engineer	WECTEC	X	X	X
Jack Otwell	Source Inspector	WECTEC			X
David Tibbs	Supplier Compliance Assessor	Southern Nuclear	X	X	
Yamir Diaz-Castillo	Inspection Team Leader	NRC	X	X	
Edgardo Torres-Collazo	Inspector	NRC	X	X	
Raju Patel	Inspector	NRC	X	X	

Name	Title	Affiliation	Entrance	Exit	Interviewed
John Honcharik	Inspector	NRC	X	X	
John Burke	Inspector	NRC		X	
David Harmon	Inspector	NRC	X	X	

2. INSPECTION PROCEDURES USED

Inspection Procedure (IP) 36100, "Inspection of 10 CFR Part 21 and Programs for Reporting Defects and Noncompliance," dated February 13, 2012

IP 43002, "Routine Inspections of Nuclear Vendors," dated January 27, 2017

IP 43004, "Inspection of Commercial-Grade Dedication Programs," dated January 27, 2017

3. INSPECTIONS, TESTS, ANALYSES, AND ACCEPTANCE CRITERIA (ITAAC)

The NRC inspection team identified the following inspections, tests, analyses, and acceptance criteria (ITAAC) related to the piping subassemblies being fabricated by Turner Industries Group L.L.C. - Pipe Fabrication Division (hereafter referred to as Turner Industries). For the ITAAC listed below, the NRC inspection team reviewed Turner Industries' quality assurance controls in the areas of Criterion III, "Design Control;" Criterion VII, "Controlled of Purchased Material, Equipment, and Services;" and Criterion IX, "Special Processes" of Appendix B, "Quality Assurance Program Criteria for Nuclear Power Plants and Fuel Reprocessing Plants," to 10 CFR Part 50, "Domestic Licensing of Production and Utilization Facilities." The ITAAC's design commitment referenced below are for future use by the NRC staff during the ITAAC closure process; the listing of these ITAAC design commitments does not constitute they have been met and/or closed. The NRC inspection team reviewed Turner Industries' activities to determine whether information will be available to support close out of the applicable ITAAC for the AP1000 piping subassemblies.

The NRC inspection team did not identify any findings associated with the ITAAC identified below:

No.	ITAAC No.	Design Commitment	Acceptance Criteria
92	2.2.01.02b	2.b) The piping identified in Table 2.2.1-2 as ASME Code Section III is designed and constructed in accordance with ASME Code Section III requirements.	The ASME Code Section III design reports exist for the as-built piping identified in Table 2.2.1-2 as ASME Code Section III.

No.	ITAAC No.	Design Commitment	Acceptance Criteria
94	2.2.01.03b	3.b) Pressure boundary welds in piping identified in Table 2.2.1-2 as ASME Code Section III meet ASME Code Section III requirements.	A report exists and concludes that the ASME Code Section III requirements are met for non-destructive examination of pressure boundary welds.
97	2.2.01.04b	4.b) The piping identified in Table 2.2.1-2 as ASME Code Section III retains its pressure boundary integrity at its design pressure.	A report exists and concludes that the results of the pressure test of the piping identified in Table 2.2.1-2 as ASME Code Section III conform with the requirements of the ASME Code Section III.

4. DOCUMENTS REVIEWED

Policies and Procedures

- Turner Industries Group Nuclear Quality Assurance Manual, Revision 1, dated July 20, 2017
- Nuclear Quality Assurance Procedure Index, dated March 8, 2018
- CAL-NDE-100-N “Calibration / Certification Non-Destructive Equipment,” dated August 26, 2010
- EG-3.01, “Development of Nuclear Shop Drawing,” Revision 2, dated February 12, 2018
- PC-100-N, “Cleaning, Painting and Coating,” Revision 0, dated August 4, 2017
- PMI-102-N, “Positive Material Identification,” Revision 1, dated August 4, 2017
- PROC-4.01, “Control of Requisitions, Purchase Orders and Items and Services,” Revision 2, dated July 22, 2017
- PROD-5.01, “Cold Bending of Pipe,” Revision 4, dated August 28, 2017
- PROD-5.02, “In-Process & Final Cleanliness,” Revision 3, dated October 9, 2017
- PROD-13.01, “Handling, Storage, Preservation, Packaging and Shipping,” Revision 5, October 23, 2017
- TH-S-1-N, “Hydrostatic Testing,” Revision 0, dated August 4, 2017
- QA-2.03, “Personnel Indoctrination and Training,” Revision 7, dated December 4, 2017

- QA-7.02, "Commercial Grade Dedication of Items and Services," Revision 0, dated March 27, 2017
- QA-15.01, "Nonconformance Program," Revision 2, dated March 3, 2017
- QA-15.02, "Nonconformance Reporting and Processing," Revision 0, dated July, 17, 2017
- QA-15.03, "Procedure for Defects and Noncompliance Under USNRC 10CFR21/50.55(e)," Revision 2, dated July 17, 2017
- QA-16.01, "Corrective Action Program," Revision 2, dated March 29, 2017
- QA-16.02, "Corrective Action Program," Revision 0, dated April 7, 2017
- QA-16.03, "Cause Analysis," Revision 0, dated January 30, 2018
- QA-16.04, "Trending," Revision 0, dated July 17, 2017
- QC-8.01, "Material Receiving and Inspection," Revision 5, dated May 25, 2017
- QC-11.01, "NDT/NDE Certification Procedure," Revision 10, dated January 2, 2018
- QC-11.02, "Visual Examination of Bolting Material, Support Material, and Temporary Attachments to Supports," Revision 2, dated July 15, 2017
- QC-11.03, "Visual Inspection of Material Surfaces and Edges, Weld Prep, Finished Weld, and Similar Configurations," Revision 1, dated July 15, 2017
- QC-11.04, "Liquid Penetrant Examination," Revision 3, dated August 28, 2017
- QC-11.05, "Radiographic Examination," Revision 1, dated August 21, 2017
- QC-11.06, "Magnetic Particle Examination," Revision 3, dated August 17, 2017
- QCI-2-N "Qualification Requirements for TIG Inspection and Test Personnel," Revision 0, dated October 18, 2013
- QP-18-N, "Nuclear Audits & Nuclear Auditor Qualification," Revision 5, dated August 4, 2017, and Revision 6, dated April 7, 2018
- WE-9.01, "Control of Filler Materials," Revision 7, dated December 4, 2017
- WE-9.02, "Guidelines for Welder/Welding Operator Performance Qualification, and Continuity Records," Revision 4, dated November 15, 2017

Design and Commercial-Grade Dedication Records

- APP-GW-P0-007, "AP1000 Specification for Shop Fabricated Piping," Revision 8
- APP-GW-P0-008, "AP1000 Specification for Field Fabricated Piping and Installation, ASME Section III, Code Class 1, 2 and 3 and ASME B31.1," Revision 6
- APP-GW-VHP-002, "Packing and Crating Instructions for Westinghouse Equipment for Domestic and Export Shipments"
- APP-GW-VLR-010, "AP1000 Supplemental Fabrication and Inspection Requirements," Revision 2
- APP-GW-Z0-602, "AP1000 Cleaning and Cleanliness Requirements of Equipment for Use in the Nuclear Safety and Associated Systems," Revision 3, dated February 18, 2013
- APP-GW-Z0-607, "Determination of Surface Chloride & Fluoride Contamination on Stainless Steel Materials," Revision 0, dated July 26, 2006
- Drawing No. APP-SGS-PLW-33A, "Steam Generator System Containment Building Room 11603 I&C L031A From Main Steam to F1021," Revision 0
- Drawing No. APP-CVS-PLW-186, "Chemical and Volume Control System Class 3 Piping," Revision 5, dated April 6, 2018
- Drawing No. APP-RCS-PLW-233, "Class 1 Piping," Revision 3, dated February 21, 2018
- Drawing No. APP-RCS-PLW-270, "Reactor Cooling System Class 2 Piping," Revision 1, dated February 21, 2018
- Drawing No. SV4-PXS-PLW-520-1A, "Passive Core Cooling System," Revision 0, dated April 5, 2018
- Drawing No. APP-RCS-PLW-532, "Class 2 Piping and Class 1 Valve," Revision 2, dated April 6, 2018
- Drawing No. APP-RCS-PLW-620, "Class 1 Piping," Revision 4, dated April 6, 2018
- Drawing No. APP-RCS-PLW-640, "Class 1 Piping," Revision 5, dated April 6, 2018
- Drawing No. SV4-PXS-PLW-830-2, "Passive Core Cooling System," Revision 1B, dated March 21, 2018
- Drawing No. SV4-PXS-PLW-830-2, "Passive Core Cooling System," Revision 1A, dated January 8, 2018
- Drawing No. APP-PCS-PLW-837, "Passive Containment Cooling System Class 3 Piping," Revision 0, dated January 31, 2018

- Drawing No. APP-PXS-PLW-840, "Passive Core Cooling System," Revision 2, dated April 2, 2018
- Engineering & Design Coordination Report (E&DCR) No. APP-PXS-GEF-850299, "APP-PXS-PLW-520 Conditioning (WEC)," Revision 0, dated February 6, 2018
- E&DCR No. APP-SGS-GEF-850096, "APP-SGS-GEF-PLW-33A Conditioning," Revision 0, dated March 31, 2014
- E&DCR No. APP-SGS-GEF-430, "Pipe Modification to APP-SGS-PLR-950 Branch Lines connecting to Main Steam Lines A/B," Revision 0, dated October 31, 2017
- Job Procedure Specification (JPS) for Job No. 171018, Revision 3, dated November 1, 2017
- JPS for Job No. 171021, Revision 3, dated November 1, 2017
- Manufacturing Inspection and Test Plan for Job No. 171021, Revision 3, dated April 10, 2018
- Nuclear Controlled Documents Transmittal Log for Job No. 171021, dated April 17, 2018
- Commercial-Grade Survey Report No. CGSR-17-001, dated June 2, 2017

American Society of Mechanical Engineers (ASME) and Welding Records

- N-5 Code Data report for Shop Assembly Serial No. SV3-CVS-PLW-186-1, dated November 17, 2017
- N-5 Code Data report for Shop Assembly Serial No. SV4-RCS-PLW-640-1, dated April 6, 2018
- N-5 Code Data report for Shop Assembly Serial No. SV4-PXS-PLW-840, dated April 2, 2018
- N-5 Code Data report for Shop Assembly Serial No. SV4-RCS-PLW-270, dated February 21, 2018
- N-5 Code Data report for Shop Assembly Serial No. SV3-RCS-PLW-532, dated April 6, 2018
- N-5 Code Data report for Shop Assembly Serial No. SV4-RCS-PLW-620, dated April 6, 2018
- NPP-1 Code Data report for Fabricated Nuclear Piping Subassemblies Serial No. SV3-PCS-PLW-837-2, dated January 24, 2018
- NPP-1 Code Data report for Fabricated Nuclear Piping Subassemblies Serial No. SV3-RCS-PLW-233-2, dated January 25, 2018

- Shop Traveler Nos. SV3-PCS-PLW-838-1, SV4-PXS-PLW-52D-1A, SV4-PXS-PLW-520-2, SV3-PCS-PLW-838-4, SV3-PXS-PLW-838-2
- Welding Procedure Specification Record No. P-8-GT-1, "ASME Welding Procedure Specification GTAW Welding of Stainless Steel Revision 9," dated November 3, 2017
- Procedure Qualification Record (PQR) No. GT-P8-TX711, "ASME Qualification Record for GTAW Welding of Stainless Steel," Revision 4, dated August 28, 2017
- PQR No. GT-P8-TX712, "ASME Qualification Record for GTAW Welding of Stainless Steel," Revision 1, dated November 6, 2017

Calibration, Heat Treatment, Non-Destructive Examination, Inspection and Test Records

- Certified Material Test Report (CMTR) for weld filler material Grade 308/308L, lot No. AF0327, heat No. 544051, dated February 28, 2018
- CMTR for weld filler material Grade 308/308L, lot Nos. CF0327 and DF0327, heat No. 544051, dated July 10, 2017
- CMTR for weld filler material Grade 308/308L, lot No. CF0436, heat No. 546025, dated February 28, 2018
- Certificate of Calibration No. 0011051026 for a pressure gage, dated August 29, 2017
- Certificate of Calibration No. 0011051036 for a step block, dated August 30, 2017
- Certificate of Calibration No. 0011051033 for a step block, dated August 30, 2017
- Certificate of Calibration No. 0011051035 for a step block, dated August 30, 2017
- Certificate of Calibration No. 0011051034 for a step block, dated August 30, 2017
- Certificate of Calibration No. 0011039233 for a clamp meter, dated July 13, 2017
- Certificate of Calibration No. 0011039236 for an infrared thermometer, dated July 31, 2017
- Certificate of Calibration No. 0011051032 for a digital radiometer, dated August 31, 2017
- Certificate of Calibration No. 0011051029 for a dew point meter, dated September 1, 2017
- Certificate of Calibration No. 0011051030 for a dew point meter, dated September 1, 2017
- Certificate of Calibration No. 0011053306 for a digital electrical caliper, dated September 14, 2017

- Certificate of Calibration No. 0011053304 for a digital electrical caliper, dated September 14, 2017
- Certified Test Report for weld coupon testing, Procedure Qualification Record No. GT-P8-TX711, dated August 8, 2017
- Certified Test Report for weld coupon testing, Procedure Qualification Record No. GT-P8-TX712, dated November 1, 2017
- Chemical Test Report, Reference No. C284281N, dated November 16, 2017
- Cleaning and Final Inspection Report for Job Nos. 171018 and 171021, dated March 26, 2018
- Cleaning and Final Inspection Report for Job No. 171021, dated November 14, 2017
- Cleaning and Final Inspection Report for Job No. 171018, dated February 9, 2018
- Material Receiving and Inspection Report (MRIR) No. 17-015 for calibration services, received on September 7, 2017
- MRIR No. 17-014 for calibration services, received on September 7, 2017
- MRIR No. 17-011 for calibration services, received on August 22, 2017
- MRIR No. 17-002 for calibration services, received on July 21, 2017
- MRIR No. 17-019 for calibration services, received on September 15, 2017
- MRIR No. 17-013 for calibration services, received on September 4, 2017
- Pipe Bend Inspection Report for Job No. 171018, dated February 2, 2018

Purchase Orders and Audit Reports

- Purchase Order (PO) No. 132175-PL02.05 for fabrication of pipe sub-assemblies, Revision 10, dated March 20, 2018
- PO No. 132176-PL02.05 for fabrication of pipe sub-assemblies, Revision 10, dated March 20, 2018
- PO No. 1170921 for calibration services, Revision 3, dated August 2, 2017
- PO No. 1170937 for weld filler metal, Revision 2, dated August 2, 2017
- PO No. 1175429 for weld coupon testing, Revision 0, dated July 28, 2017
- PO No. 1179836 for calibration services, Revision 0, dated August 30, 2017

- PO No. 1181217 for calibration services, Revision 0, dated September 8, 2017
- PO No. 1190349 for weld coupon testing, Revision 0, dated October 30, 2017
- PO No. 1193204 for metal analysis, Revision 1, dated November 16, 2017
- PO No. 1206075 for weld filler metal, Revision 1, dated February 21, 2018
- PO No. 1208736 for calibration services, Revision 0, dated March 12, 2018
- PO No. 1212823 for weld coupon testing, Revision 0, dated April 5, 2018
- Nuclear Audit Schedule, Revision 14
- TIG Standard Attachment for Nuclear Purchase Orders, Revision 5
- Approved Supplier List, Revision 12, dated February 13, 2018
- Audit Report No. SA-16-003, Revision 0, dated April 13, 2017
- Audit Report No. SA-17-002, Revision 0, dated March 30, 2017
- Audit Report No. SA-17-004, Revision 0, July 7, 2017
- Audit Report No. SA-17-005, Revision 0, dated May 5, 2017
- Audit Report No. SA-17-007, Revision 0, dated October 19, 2017
- Audit Report No. SA-18-001, Revision 0, dated March 14, 2018
- Audit Report No. SA-18-002, Revision 0, dated March 14, 2018
- Annual Evaluation Report No. AE-18-001, dated February 2, 2018
- Annual Evaluation Report No. AE-18-002, dated January 25, 2018
- Internal Audit Report No. TIG-IA-PARIS-PIPE FAB-NUCLEAR-PRTX-2016 dated April 26, 2016
- Internal Audit Report No. TIG-IA-PARIS-NUC-PIPE-Ph2-PRTX-2016, dated August 29, 2016
- Internal Audit Report No. TIG-IA-PARIS-NUC-PIPE Ph2-PRTX-2016, dated August 2, 2017
- Internal Audit Report No. TIG-IA-PARIS-PIPE FAB-NUCLEAR-PRTX-2016, Revision 1, dated August 2, 2017

- Internal Audit Report No. TIG-IA-PARIS-PIPE-FAB-NUC-PRTX-2017, dated August 22, 2017
- Internal Audit Report No. TIG-IA-PARIS-PIPE-FAB-NUC-PRTX-2017A, dated November 14, 2017

Nonconformance Reports

- 17-001, 17-003, 17-004, 18-001, 18-002, 18-003, 18-004, 18-005, 18-007, 18-008, 18-010, 18-011, and 18-013

Corrective Action Reports

- 17-006, 17-007, 17-009, 17-010, 17-011, 17-012, 17-013, 17-014, 17-015, 17-019, 17-022, 17-023, 17-024, 17-026, 17-027, 17-028, 17-029, 17-032, 17-033, 17-034, 17-035, and 18-028

Corrective Action Requests Opened During the NRC Inspection

- 18-043, 18-044, 18-045, 18-046, 18-047, 18-048, 18-049, 18-050, 18-051, 18-052, 18-053, 18-055, 18-056, 18-057, and 18-058

Training and Qualification Records

- Cold bending operator training records for James Flood, dated February 22, 2018
- Engineering training records on NQA-1, QAPD, ASME Section III, 10 CFR Part 21 for Terry Strickland, Ron Hicks, Jeff Hurst and Trey Glascock
- NDE Qualifications for Richard Cannella (VT-II, PT-II, MT-II, and RT-II), Ronnie Bratcher (VT-II, PT-II, MT-II, and RT-II), Charles Gilbert (VT-III, PT-III, MT-III, and RT-III), and Robert Reed (VT-II, PT-II, MT-II, and RT-II)
- Lead auditor training records for Brenda Sandford, Sunny Catalano, Richard Hodom, Shad Wetzel
- Technical Specialist training records for Laura Cavet, Raymond Reamey, Lonny Ackley, Charles Gilbert, and Jason Weekley
- Quality Assurance and Document Control training records for Jorge Castillo, Sunny Catalano, and Candi Nabors, dated February 23, 2018
- Welder qualification records for Gas Tungsten Arc Welding for Cody Crossland, Jesse Goforth, Austin Smith, Brandon Smith, Wesley Tingen, and Colton Webb

Miscellaneous

- Nuclear File Room Access Log, dated March 19, 2018
- Training Matrix - ASME Section III Program Paris Nuclear Pipe Fabrication
- Trending Reports No. TR-17-3Q and TR-17-4Q