U.S. Department of Energy
Office of River Protection
P.O. Box 450, MSIN H6-60
Richland, Washington 99352

APR 19 2007

07-WTP-102

Mr. C. M. Albert, Project Manager
Bechtel National, Inc.
2435 Stevens Center Place
Richland, Washington 99354

Dear Mr. Albert:

CONTRACT NO. DE-AC27-01RV14136 – INSPECTION REPORT A-07-AMWTP-RPPWTP-001 – ON-LOCATION INSPECTION REPORT FOR THE PERIOD JANUARY 1, 2007 THROUGH MARCH 31, 2007

Reference: ORP letter from S. J. Olinger to W. S. Elkins, BNI, "Concern Regarding the Quality of Material Supplied by a Structural Steel Supplier," 07-WTP-081, dated March 8, 2007.

This letter forwards the results of the U.S. Department of Energy, Office of River Protection (ORP) review of Bechtel National, Inc. (BNI) construction performance of the Waste Treatment and Immobilization Plant for the period January 1, 2007 through March 31, 2007. A summary of the inspections is documented in the attached Inspection Report (Attachment 2).

Three cited Findings (one with two examples) and one non-cited Finding were identified during this inspection period. One of the cited Findings was previously transmitted to BNI in the Referenced letter. The other two cited Findings require formal responses and regard untimely occurrence reporting, and two National Fire Protection Association 70E issues (incorrect revision of drawings used to determine electrical supply sources found in hazardous energy control work packages, and inadequate zero energy checks). The Notice of Finding (Attachment 1) describes these issues and contains the instructions for responding. The non-cited Finding regarded failure to coat a support that was inaccessible after installation. ORP requests BNI to provide a reply to the Findings within 30 days of the date of this letter.

This letter is not considered to constitute a change to the Contract. In the event BNI disagrees with this interpretation, it must immediately notify the Contracting Officer orally, and otherwise comply with the requirements of the Contract clause entitled 52.243-7 Notification of Changes.

If you have any questions, please contact me, (509) 376-3681.

Sincerely,

John R. Eschenberg, Project Manager
Waste Treatment and Immobilization Plant Project

WTP:JWM

Attachments: (2)

cc w/attachs:
D. Jantosik, BNI
D. Kammenzind, BNI
BNI Correspondence

NOTICE OF FINDING

Section C, "Statement of Work," Standard 1, "Management Products and Controls," of the Waste Treatment and Immobilization Plant (WTP) Contract DE-AC27-01RV14136, dated December 11, 2000, between the U.S. Department of Energy (DOE), Office of River Protection (ORP) and Bechtel National, Inc. (BNI), defined BNI's management products and controls required during the contract period. Standard 1(f)(3) requires BNI to adhere to DOE O 231.1A, *Environment, Safety, and Health Reporting*. DOE O 231.1A, Section 4, "Requirements," requires BNI to submit occurrence reports in accordance with the most recent version of DOE M 231.1-2, *Occurrence Reporting and Processing of Operations Information*.

Section C, "Statement of Work," Standard 7, "Environment, Safety, Quality, and Health," of the WTP contract defines BNI's responsibilities as they relate to conventional nonradiological worker safety and health; radiological, nuclear, and process safety; environmental protection; and quality assurance. Standard 7(e)(ii), requires BNI's nonradiological worker safety and health program to conform to RL/REG-2004-04, *Industrial Health and Safety Oversight Plan.* Appendix A, Section 12.h of this plan requires BNI to comply with National Fire Protection Association (NFPA) 70E, *National Electrical Code*.

While performing assessments of BNI's construction activities, conducted from January 1, 2007, through March 31, 2007, ORP identified the following Findings:

1. DOE M 231.1-2, Section 5.6(b) gives instruction on what to do when the final report cannot be issued within the required 45 calendar days: The Contractor should issue an update report within 45 days giving a detailed explanation of the delay and provide an estimated date for submittal of the final report.

   Contrary to this instruction, in 2006 BNI was late in issuing the final report on 8 of the 30 occurrences reported by them. In most late reports, update reports were not used. In cases where update reports were used by the Contractor they were not submitted within the required time limit.

   Failure to implement the occurrence reporting time limits as required in Section C.6, Standard 1(f)(3) of the WTP contract is considered a Finding (**A-07-AMWTP-RPPWTP-001-F02**) (Inspection Note 001-04).

2a. NFPA 70E, Article 120.1(1) requires the Contractor to determine all possible sources of electrical supply to the specific equipment, including checking applicable up-to-date drawings, diagrams, and identification tags.

   Contrary to the requirement, BNI failed to properly implement a process for ensuring drawings used to verify electrical supply were up-to-date. Hazardous energy control work packages contained out-of-date and uncontrolled drawings, were missing necessary documentation, and contained incorrect documents. This is an example of a Finding against WTP Contract, Section C, Standard 7(e)(ii) (**A-07-AMWTP-RPPWTP-001-F04a**) (Inspection Note 001-45).

2b. NFPA 70E, Article 120.1(5) requires the performance of a zero-energy check.

Contrary to the requirement, BNI took three substations out-of-service at the same time, prior to performing the zero-energy check; BNI subsequently performed a zero-energy check on all three substations at one time. BNI later re-energized one of the substations while work continued in the other two substations without re-performing zero-energy checks. In this case, performing zero-energy checks in parallel rather than individually constituted an inadequate zero-energy check.

This is the second example of a Finding against BNI Contract, Section C, Standard 7(e)(ii) (**A-07-AMWTP-RPPWTP-001-F04b**) (Inspection Note 001-45).

The WTP Project Manager requests BNI to provide a reply to the Findings within 30 days of the date of the cover letter that transmitted this Notice. The reply should include:

1. Admission or denial of the Findings;
2. Reason for the Findings, if admitted, and if denied, the reason why;
3. Corrective steps that have been taken and the results achieved;
4. Corrective steps that will be taken to avoid further Findings; and
5. Date when full compliance with the applicable commitments in authorization bases will be achieved.

Where good cause is shown, consideration will be given to extending the requested response time.

U.S. DEPARTMENT OF ENERGY
Office of River Protection

INSPECTION: On-location Inspection Report

REPORT NO.: A-07-AMWTP-RPPWTP-001

FACILITY: Bechtel National, Inc. (BNI)

LOCATION: 2435 Stevens Center Place
Richland, Washington 99354

DATES: January 1, 2007, through March 31, 2007

INSPECTORS: J. McCormick-Barger, Construction Inspection Lead
J. Bruggeman, ORP Facility Representative
J. Christ, ORP Facility Representative
B. Harkins, ORP Facility Representative
J. Navarro, ORP Facility Representative
E. Enloe, Team Member
M. Evarts, Team Member
R. Taylor, Team Member
D. Wallace, Team Member

APPROVED BY: J. R. Eschenberg, Project Manager
Waste Treatment and Immobilization Plant Project

INSPECTION REPORT

Introduction

During the period January 1, 2007, through March 31, 2007, the U.S. Department of Energy (DOE), Office of River Protection (ORP), Waste Treatment and Immobilization Plant (WTP) Project conducted inspections of important-to-safety (ITS) and non-ITS (Balance-of-Plant) activities during the construction of the WTP. These inspections were documented on inspection notes and maintained electronically. There were 66 inspections of various construction activities, summarized below. A summary listing of the inspection notes is included at the end of this report; copies of the inspection notes are available upon request.

Significant Observations and Conclusion

- Pneumatic and hydraulic shop and field testing of installed (or to be installed) piping was conducted in accordance with site procedures and specifications, and code requirements. The tested piping was installed in accordance with design and specification requirements (Inspection Notes 001-01, 001-29, and 001-57).
- The original schedule 40 polyvinyl chloride (PVC) conduit installed at Cooling Tower Building 83 had not met the design intent. Design engineering concluded the requirement of Note 3 on drawing 24590-B83-E2-E53T-00001 was not clear and, therefore, revised the design drawing to require rigid galvanized steel unless otherwise noted. BNI replaced the PVC conduit with rigid galvanized steel conduit (Inspection Note 001-02).
- Selected portions of the Analytical Laboratory (LAB) 4-inch Radioactive Liquid Waste Disposal System (RLD) stainless steel piping had been installed in accordance with design requirements, utilizing current revisions of piping isometric drawings and specifications (Inspection Note 001-03).
- Bechtel National, Inc. (BNI) was not adequately implementing the occurrence reporting process. One Finding was identified for failing to implement the occurrence reporting time limits specified in DOE M 231.1-2, *Occurrence Reporting and Processing of Operations Information*, required in Section C.6, Standard 1(f)(3) of the WTP Contract (**Finding A-07-AMWTP-RPPWTP-001-F02**) (Inspection Note 001-04).
- BNI was installing structural steel stairwells for the Pretreatment Facility to approved design drawings and specifications (Inspection Note 001-07).
- BNI performed and documented the required testing on A490 high-strength bolts (1 1/2-inch diameter). BNI wrote a nonconformance report (NCR) (24590-WTP-NCR-CON-07-0011) identifying the A490 bolts that had failed required testing. The bolts were isolated to prevent distribution to field construction (Inspection Note 001-08).
- BNI performed earthen backfill placement and subsequent compaction testing in accordance with the construction procedure (Inspection Note 001-09).
- Initial review of Intermech welding of galvanized-coated carbon steel at the Low-Activity Waste (LAW) Facility raised concerns regarding toxic gas hazards control. However, BNI and Intermech were able to provide an Occupational Safety and Health Administration

(OSHA) staff member clarification regarding the meaning of an enclosed space (same as confined space), and adequate evidence they were complying with 29 *Code of Federal Regulations* (CFR) 1910.134, the respiratory protection requirements specified for open air welding of galvanized steel. Based on this, Intermech was adequately preparing surfaces (required by 29 CFR 1926.353) for welding to protect against toxic hazards associated with preservative coatings (Inspection Note 001-10).

- Leak Testing on February 8, 2007, verified the workmanship of LAW ductwork conformed to contract documents and applicable codes (Inspection Note 001-11).
- Exothermic welds and ground rods installed for the lightning protection system at the Chiller Compressor Building met both design and code requirements. The Master Certification Label will be issued by Underwriters Laboratories when the lightning protection system is completed (Inspection Note 001-12).
- BNI had adequately performed and documented the megger testing on sections of LAW Melter #1, External Bus Duct Element (WTP-E-ABB-1515-1.09 and WTP-E-ABB-1515-1.10) per applicable electrical and construction requirements (Inspection Note 001-13).
- BNI had properly performed and documented the required testing on LAB galvanized A325 bolts (3/4-inch and 7/8-inch diameter), galvanized Direct Tension Indicator Squirter Washers (3/4-inch and 7/8-inch diameter), and A490 high strength bolts (1 1/8-inch diameter) (Inspection Note 001-15).
- BNI was batching, placing, consolidating, and testing concrete associated with LAW Wall #135A, in accordance with engineering specifications and the Safety Requirements Document (SRD) (Inspection Note 001-16).
- BNI performed megger testing on electrical bus pieces 9 and 10 from bus LVE-BUS-20002 in the LAW building in accordance with applicable requirements (Inspection Note 001-17).
- BNI was adequately implementing the Industrial Health and Safety (IH&S) tool inspection program (Inspection Note 001-18).
- BNI correctly fit-up and welded a Balance of Facilities (BOF) Plant Service Air System (PSA) 10-inch carbon steel pipe to a 10-inch carbon steel pipe. BNI installed the correct material and welded them together with the correct filler metal, using a qualified welder in accordance with required codes and standards (Inspection Note 001-19).
- BNI welded Chilled Water System (CHW) 1-inch carbon steel pipe to a 1-inch carbon steel pipe socket weld coupling with the correct material and filler metal, using a qualified welder in accordance with the applicable code, design, and construction program requirements (Inspection Note 001-20).
- For a fit-up inspection on an electrical buss support BDS-10009 in the LAW building, BNI installed the correct steel and welded it together with the correct filler metal, using a qualified welder in accordance with the engineering design and applicable welding requirements (Inspection Note 001-21).
- The process used to ensure BNI was implementing the Dangerous Waste Permit requirements during construction of the WTP was adequately being implemented (Inspection Note 001-22).

- Excavations were being inspected and adequately maintained in a safe and compliant condition; however, some Daily Trench Safety Report deficiencies existed. Backfill inspections reports also appeared adequate, although they were not always being closed and sent to Project Document Control (PDC) in a timely manner. Also, some non-quality daily backfill activity reviews were not filled in completely. BNI construction agreed to address these weaknesses (Inspection Note 001-23).
- BNI's normal drawing control update process was effective and in accordance with BNI's document control procedures. BNI's monitoring program was being performed as required by BNI's ongoing drawing control assessment plan. However, issues were identified with the drawing control process used for hazardous energy control discussed in Inspection Note 001-45 below (Inspection Note 001-25).
- BNI adequately closed occurrence report EM-RP--BNRP-RPPWTP-2006-030, *Fire Protection Pipe Drops*. Corrective actions were completed and appeared adequate to prevent recurrence of this event (Inspection Note 001-26).
- BNI had performed and documented the required inspection on galvanized A325 bolts and A490 high-strength bolts in accordance with the design/installation documents (Inspection Note 001-27).
- BNI was found installing temporary electrical equipment in accordance with the National Electrical Code (NEC) (Inspection Notes 001-28, 001-36, 001-37, 001-39, and 001-50).
- On Saturday, February 3, 2007, BNI adequately performed the electrical outage work on temporary power in the LAW Facility (Inspection Note 001-30).
- The roofing subcontractor was installing LAW roof hatch cover single ply roofing in accordance with the approved roofing product data submittal. Site rigging/ lifting plans were adequately employed during the lifting activities (Inspection Note 001-34).
- BNI adequately developed and implemented their emergency action plan (Inspection Note 001-38).
- BNI installed forms, rebar, embeds, and electrical grounding for LAW concrete placement LAW-138, in an acceptable manner and in accordance with applicable design and standard requirements (Inspection Note 001-40).
- BNI installed the correct material and welded a 16-inch carbon steel pipe support weld (FW-01) to a 24-inch carbon steel pipe within the Chilled Water Return System (CHW-WL) with the correct filler metal, using a qualified welder in accordance with the applicable welding and installation requirements (Inspection Note 001-41).
- BNI's Hearing Conservation Program was being adequately implemented. However, the calibration log and several recent noise monitoring forms were not turned in to PDC in a timely manner. This issue was discussed with a BNI construction site Safety Assurance representative (Inspection Note 001-42).

- BNI performed fit-up of LAW 8-inch carbon steel pipe to 8-inch carbon steel pipe in an acceptable manner. The inspector confirmed the current revision of the piping isometric had been entered on the Field Weld Checklist (Inspection Note 001-43).

- BNI's procedure for monitoring and assessing subcontractor safety and health performance was found acceptable to perform this function. The "Subcontractor ES&H Implementation Checklist" effectively covered 15 critical safety and health areas in subcontractors' Safety and Health plans and onsite implementation, and provided a process to follow-up when noncompliances were found. Safety and Health assessments were required and performed quarterly on subcontractors and their lower-tier subcontractors. BNI generated Recommendation and Issue Tracking System items when noncompliances were found on the documentation assessed, and followed through on them until closure (Inspection Note 001-44).

- BNI's Hazardous Energy Control Program for temporary electrical power had significant deficiencies that needed correction. BNI's work package quality in this area was poor and procedure improvements are needed to adequately delineate requirements in this area. This program also lacked an adequate process to consider potential impacts of multiple work activities.

  Two examples of a Finding for failure to implement the requirements of NFPA 70E were identified regarding (a) failure to ensure current revisions of drawings were used to determine electrical supply sources, and (b) failure to perform adequate zero-energy checks before working on the three transformers (**Findings A-07-AMWTP-RPPWTP-001-F04a and b**) (Inspection Note 001-45).

- Issues identified in two work planning and control assessments, one performed by BNI, and one performed by ORP, were reviewed for closure. Although some of the items were closed, other items remain open because BNI had not completed the necessary actions. The items still open are being tracked in the ORP Consolidated Action Reporting System (CARS) under CARS items 11684 and 9806 subtask #30 (Inspection Note 001-46).

- For fit-up inspection of a Plant Service Air System (PSA) 4-inch carbon steel pipe to a 4-inch carbon steel pipe, BNI installed the correct material and welded them together with the correct filler metal, using a qualified welder in accordance with the design and welding requirements (Inspection Note 001-47).

- BNI performed substantial oversight of Hirschfeld's fabrication of WTP structural steel. This oversight resulted in the identification of numerous quality-related issues and program weaknesses, ultimately resulting in removing Hirschfeld from BNI's Approved Supplier List (ASL) and requiring 100% oversight of fabrication of in-process work to complete the current purchase order requirements. However, during this supplier inspection of Hirschfeld, a number of quality-related problems, some beyond what was identified by BNI oversight activities, should be considered as part of BNI's evaluation of Hirschfeld's structural steel fabrication activities. They include:

  - Lack of adequate calibration procedures regarding provision for conducting reviews of out-of-calibration equipment.
  - Poor implementation of the NCR and CAR system.

- Marginal quality audits of suppliers.
- Weld wire of indeterminate quality.
- Non-surveyed suppliers other than A-36 and A-992 suppliers.
- Lack of BNI engineering-specified visual weld inspector qualifications.

In addition, a concern was raised regarding the quality requirements specified in the original BNI purchase order. As a result, Hirschfeld may have procured and fabricated substantial quantities of LAW and High-Level Waste (HLW) Facilities structural steel with potentially indeterminate quality. This was cited as a Finding against BNI's Quality Assurance Manual (QAM), Policy Q-04.1, paragraph 3.2.6 (**Finding A-07-AMWTP-RPPWTP-001-F01**). This Finding was cited in a letter to BNI, dated March 8, 2007 (letter number 07-WTP-081) (Inspection Note 001-48).

- BNI's oversight of Bristol Piping Systems was adequate. BNI's supplier quality organization was performing regular inspections and meeting material acceptance plan expectations. Bristol Piping Systems quality and welding programs were being adequately implemented and observed work in-progress was meeting applicable purchase order and code requirements. No issues were identified (Inspection Note 001-49).

- For fit-up inspection of a Process Service Water System (PSW) 2-inch carbon steel pipe to a 2-inch carbon steel 90 degree pipe fitting, BNI installed the correct material and welded them together with the correct filler metal, using a qualified welder in accordance with design and welding requirements (Inspection Note 001-51).

- BNI adequately closed occurrence report EM-RP--BNRP-RPPWTP-2006-0027, *WTP LO/TO Administrative Violation – LAW Temporary Propane Line*. The Facility Representative verified the corrective actions were completed and appeared adequate to prevent recurrence of this event (Inspection Note 001-52).

- Leak testing on the C5 exhaust ductwork from the +28-foot elevation (C3 Maintenance Room) to the -21-foot elevation in the LAW Facility verified the workmanship of the ductwork and it conformed to contract documents and applicable codes (Inspection Note 001-53).

- The coating subcontractor had correctly applied cementitious fireproofing to the required specified thickness for a LAW column as indicated on the drawings/specifications. BNI provided adequate oversight of the subcontractor as verified by observations of inspections (Inspection Note 001-54).

- The leak retest on the C5 exhaust ductwork, from a blank off at the east end of corridor LCB004 in the -21-foot elevation, up to the +3-foot elevation effluent cell and around to the southeast corner, and then up to the +28-foot elevation to a blank off in the fixative curing room L-0217B, verified the workmanship of the ductwork and conformed to contract documents and applicable codes (Inspection Note 001-55).

- For placement LAW 136B, a wall pour at +28-foot for the east export annex, BNI performed concrete testing and placed concrete in accordance with construction procedure, engineering specifications, and code requirements (Inspection Note 001-56).

- BNI installed the correct LAB pipe hanger support material and tack-welded them together with the correct filler metal, using a qualified welder in accordance with design and welding requirements (Inspection Note 001-58).
- During welding of a LAB pipe hanger support to existing structural steel, BNI installed the correct material and tacked welded them together with the correct filler metal, using a qualified welder in accordance with design and welding requirements (Inspection Note 001-59).
- For a Non-Radioactive Liquid Waste Disposal System (NLD) 2-inch stainless steel pipe to a 2-inch stainless steel pipe groove weld, BNI installed the correct material and welded them together with the correct filler metal, using a qualified welder in accordance with the design and welding procedures (Inspection Note 001-60).
- BNI's preservation and maintenance process continued to show weaknesses. The actions taken to train staff in this area addressed that portion of assessment follow-up item (AFI) A-06-AMWTP-RPPWTP-002-A06. However, the quality of BNI's implementing procedure continues to need improvement. BNI stated they are revising the procedure to improve the program and will hire additional experienced staff to strengthen the preservation and maintenance process. AFI A-06-AMWTP-RPPWTP-002-A06 will remain open pending the results of a planned program review in April 2007 (Inspection Note 001-61).
- For an obtuse weld on pipe support LAW-NLD-H10154 in the LAW building, BNI installed the correct steel and welded it together with the correct filler metal, using a qualified welder in accordance with applicable engineering and weld code requirements (Inspection Note 001-62).
- With generally minor exceptions, BNI is placing completed Field Weld Checklists in PDC in an acceptable manner. BNI issued Corrective Action Report (CAR) 24590-WTP-CRPT-QA-07-099 to perform an extent-of-condition review and determine what corrective action will be performed to address these minor document errors. Because of the relative minor nature of these issues and BNI's initial actions to address them, no further action by ORP is anticipated at this time. ORP inspections of weld records will be temporarily suspended to allow BNI time to review and address these documentation issues (Inspection Note 001-63).
- BNI installed reinforcement, embeds, and electrical grounding for the LAW wall 136B, in an acceptable manner in accordance with the above design requirements except for one minor issue that BNI missed, one number 7 wall dowel. BNI took immediate action and installed the missing rebar (Inspection Note Number 001-64).
- During a post-welding coating inspection of hanger BOF-PSA-H00029 in the Chiller/ Compressor building, BNI was found to be installing this hanger without first coating inaccessible portions of the support. Pre-installation coating of inaccessible portions of the support was required in engineering specification 24590-WTP-3PS-AFPs-T0003. Failure to coat the support is considered a Finding against BNI QAM, Policy Q-05.1, Section 3.1.1, regarding the requirement to follow instructions, procedures, and drawings. Because this issue is relatively minor (non-safety and a "should" versus "shall" requirement), BNI acknowledged this error and has written Project Issues Evaluation Reporting (PIER) 24590-WTP-PIER-MGT-07-0408, and BNI plans to take actions to address this issue; this

issue will be tracked as **Non-Cited Finding A-07-AMWTP-RPPWTP-001-N03** (Inspection Note 001-65).

- Crane operator qualifications and crane maintenance requirement procedures were found acceptable. Minor observations were noted for a procedure form title and the initial database sort for crane operator certifications. The review of a daily crane inspection indicated the operator conducted a diligent mobile crane safety inspection, and review of the crane maintenance and repair records indicated diligent compliance with the pertinent requirements (Inspection Note 001-66).
- BNI had adequately closed occurrence report EM-RP--BNRP-RPPWTP-2006-014 *Vendor Violates WTP Lock Out/Tag Out Procedure.* Corrective actions were completed and the corrective actions for occurrence 2006-0014 appeared adequate to prevent recurrence (Inspection Note 001-67).

List of Assessment Items Opened, Closed, and Discussed:

Opened

A-07-AMWTP-RPPWTP-001-F01	Finding	Failure of BNI to adequately flow down NQA-1 requirements to Hirschfeld for qualifying sub-tier suppliers (Inspection Note 001-48).
A-07-AMWTP-RPPWTP-001-F02	Finding	Failure of BNI to implement the occurrence reporting time limits specified in DOE M 231.1-2 required in Section C.6, Standard 1(f)(3) of the BNI Contract (Inspection Note 001-04)
A-07-AMWTP-RPPWTP-001-F03	Non-Cited Finding	Failure to coat inaccessible hangers prior to installation (Inspection Note 001-65)
A-07-AMWTP-RPPWTP-001-N04a&b	Finding	Failure to implement the requirements of NFPA 70E regarding (a) failure to ensure current revisions of drawings were used to determine electrical supply sources, and (b) failure to perform adequate zero energy checks before working on the three transformers (Inspection Note 001-45)

Closed

A-05-AMWTP-RPPWTP-001-A05	Assessment Follow-up Item	Follow-up on BNI actions to address15 electrical issues regarding the Fuel Oil Pump House Building 81 and Fire Water Pump House Buildings 84A and 84B and subcontractor electrical oversight issues (Inspection Note 001-33)
A-06-AMWTP-RPPWTP-001-F01	Finding	Follow-up on BNI actions to address subcontractor FD Thomas' Confined Space Program and procedural issue (Inspection Note 001-14)
A-06-AMWTP-RPPWTP-001-F05	Finding	Follow-up on BNI actions to address Confined Space Program and procedural issue (Inspection Note 001-31)
A-06-AMWTP-RPPWTP-002-A09	Assessment Follow-up Item	Follow-up on BNI actions to upgrade its emergency preparedness program to address identified issues (Inspection Note 001-32)
A-06-AMWTP-RPPWTP-003-F03	Finding	Follow-up on BNI actions to address three examples (a, b, and c) of a Finding for not following BNI's corrective action procedure regarding Lockout/Tagout (LOTO) violations (Inspection Note 001-05)
A-06-AMWTP-RPPWTP-004-N01	Non-Cited Finding	Electrical NEC issues regarding the Rebar Roller and Shear Machine installations (Inspection Note 001-24)
A-06-AMWTP-RPPWTP-004-N05	Non-Cited Finding	Failure to properly document weld location on the weld maps attached to field weld checklists (Inspection Note 001-35)

Discussed

A-06-AMWTP-RPPWTP-002-A06	Assessment Follow-up Item	Follow-up on Contractor actions to address preservation and maintenance program weaknesses regarding record content and worker training (Inspection Note 001-61)

List of Inspection Notes Issued During the Assessment Period:

Inspection Note Number	Inspection Subject
A-07-AMWTP-RPPWTP-001-01	BOF pressure testing in January.
A-07-AMWTP-RPPWTP-001-02	Electrical-conduit installation in BOF.
A-07-AMWTP-RPPWTP-001-03	Welding-LAB RLD pipe welding inspection.
A-07-AMWTP-RPPWTP-001-04	Occurrence reporting program review.
A-07-AMWTP-RPPWTP-001-05	Closure of A-06-AMWTP-RPPWTP-003-F03a, b, c.
A-07-AMWTP-RPPWTP-001-06	**Inspection Note number not used.**
A-07-AMWTP-RPPWTP-001-07	Welding- PTF Stairwells.
A-07-AMWTP-RPPWTP-001-08	LAB bolt tension testing.
A-07-AMWTP-RPPWTP-001-09	Soil testing-LAW Annex Building.
A-07-AMWTP-RPPWTP-001-10	IH&S-LAW galvanized steel welding.
A-07-AMWTP-RPPWTP-001-11	HVAC-LAW ductwork testing.
A-07-AMWTP-RPPWTP-001-12	Electrical-BOF lighting protection Bldg 82.
A-07-AMWTP-RPPWTP-001-13	Electrical-megger testing LAW Melter #1.
A-07-AMWTP-RPPWTP-001-14	Closure of A-06-AMWTP-RPPWTP-001-F01.
A-07-AMWTP-RPPWTP-001-15	LAB bolt tension testing.
A-07-AMWTP-RPPWTP-001-16	Concrete placement-LAW-135A wall.
A-07-AMWTP-RPPWTP-001-17	Electrical-megger testing LAW bus.
A-07-AMWTP-RPPWTP-001-18	IH&S-tool inspection.
A-07-AMWTP-RPPWTP-001-19	Welding-BOF PSA piping fit-up.
A-07-AMWTP-RPPWTP-001-20	Welding-LAW CHW piping fit-up.
A-07-AMWTP-RPPWTP-001-21	Welding-fit-up LAW electrical bus support.
A-07-AMWTP-RPPWTP-001-22	Dangerous Waste Permit compliance.
A-07-AMWTP-RPPWTP-001-23	IH&S-excavation program review.
A-07-AMWTP-RPPWTP-001-24	Closure of A-06-AMWTP-RPPWTP-004-N01.
A-07-AMWTP-RPPWTP-001-25	LAW Construction drawing control review.
A-07-AMWTP-RPPWTP-001-26	Closure of Occurrence Report 2006-0030.
A-07-AMWTP-RPPWTP-001-27	LAB bolting installation.
A-07-AMWTP-RPPWTP-001-28	Electrical-LAW PDR panel installations.
A-07-AMWTP-RPPWTP-001-29	BOF pressure testing in February.
A-07-AMWTP-RPPWTP-001-30	Electrical-backshift electrical outage observation.
A-07-AMWTP-RPPWTP-001-31	Closure of A-06-AMWTP-RPPWTP-001-F05.
A-07-AMWTP-RPPWTP-001-32	Closure of A-06-AMWTP-RPPWTP-002-A09.
A-07-AMWTP-RPPWTP-001-33	Closure of A-05-AMWTP-RPPWTP-001-A05.
A-07-AMWTP-RPPWTP-001-34	Roofing/Siding for LAW glass former access hatch.
A-07-AMWTP-RPPWTP-001-35	Closure of A-06-AMWTP-RPPWTP-004-N05.
A-07-AMWTP-RPPWTP-001-36	Electrical-warehouse T-52 disconnects.
A-07-AMWTP-RPPWTP-001-37	Electrical-temporary power for LAW.
A-07-AMWTP-RPPWTP-001-38	Emergency Action Plan implementation review.
A-07-AMWTP-RPPWTP-001-39	Electrical-temporary power GDR for HLW.
A-07-AMWTP-RPPWTP-001-40	FRE installation for concrete placement *LAW-138*.
A-07-AMWTP-RPPWTP-001-41	Welding-fit-up of BOF CHW-WL pipe.
A-07-AMWTP-RPPWTP-001-42	IH&S-hearing conservation program review.
A-07-AMWTP-RPPWTP-001-43	Welding-fit-up of LAW Chilled Water Piping.

A-07-AMWTP-RPPWTP-001-44	IH&S-BNI sub-contractor IH&S Program oversight.
A-07-AMWTP-RPPWTP-001-45	Electrical-annual maintenance on sub-stations.
A-07-AMWTP-RPPWTP-001-46	Closure of Work Planning Issues.
A-07-AMWTP-RPPWTP-001-47	Welding-fit-up of LAW PSA piping.
A-07-AMWTP-RPPWTP-001-48	Supplier inspection- Hirschfeld Steel.
A-07-AMWTP-RPPWTP-001-49	Supplier inspection-Bristol Piping.
A-07-AMWTP-RPPWTP-001-50	Electrical-LAW temporary power.
A-07-AMWTP-RPPWTP-001-51	Welding-LAW PSW pipe installation.
A-07-AMWTP-RPPWTP-001-52	LAW propane incident.
A-07-AMWTP-RPPWTP-001-53	HVAC-LAW HVAC testing.
A-07-AMWTP-RPPWTP-001-54	LAW fireproofing inspection.
A-07-AMWTP-RPPWTP-001-55	HVAC-LAW HVAC testing.
A-07-AMWTP-RPPWTP-001-56	Concrete placement-LAW 136B wall.
A-07-AMWTP-RPPWTP-001-57	Pressure test-BOF-March.
A-07-AMWTP-RPPWTP-001-58	Welding-LAB fit-up for a pipe hanger.
A-07-AMWTP-RPPWTP-001-59	Welding-LAB fit-up for a pipe hanger.
A-07-AMWTP-RPPWTP-001-60	Welding-LAW NLD pipe weld.
A-07-AMWTP-RPPWTP-001-61	Closure of A-06-AMWTP-RPPWTP-002-A06.
A-07-AMWTP-RPPWTP-001-62	Welding-LAW NLD pipe support weld.
A-07-AMWTP-RPPWTP-001-63	Final B31.3 weld record reviews.
A-07-AMWTP-RPPWTP-001-64	FRE LAW wall 136B preplacement review.
A-07-AMWTP-RPPWTP-001-65	BOF hanger inaccessible coating issue.
A-07-AMWTP-RPPWTP-001-66	Crane safety and maintenance review.
A-07-AMWTP-RPPWTP-001-67	Closed occurrence report 2006-0014.