

U.S. Department of Energy
Office of River Protection

P.O. Box 450, MSIN H6-60
Richland, Washington 99352

08-WTP-079

APR 10 2008

Mr. L. J. Simmons, Project Manager
Bechtel National, Inc.
2435 Stevens Center Place
Richland, Washington 99354

Dear Mr. Simmons:

CONTRACT NO. DE-AC27-01RV14136 – SURVEILLANCE REPORT S-08-WCD-RPPWTP-001 – THE WASTE TREATMENT AND IMMOBILIZATION PLANT (WTP) CONSTRUCTION OVERSIGHT AND ASSURANCE DIVISION (WCD) CALENDAR YEAR 2008 FIRST QUARTER CONSTRUCTION SURVEILLANCE SUMMARY REPORT

This letter forwards the results of the U.S. Department of Energy, Office of River Protection (ORP) WCD review of Bechtel National, Inc.'s (BNI) construction performance of the WTP for the period January 1, 2008 through March 31, 2008. A summary of the surveillance activities is documented in the attached report S-08-WCD-RPPWTP-001.

During this surveillance period, eight findings and one observation were identified. Six of the findings were characterized as non-cited and do not require written responses. Two of the findings require written responses and include: 1) three examples of failure to ensure National Electrical Code requirements were implemented for vendor supplied electrical equipment associated with the T13 mobile office; and 2) failure to perform radiographic (RT) examination of replacement welds when the original welds were rejected due to unacceptable RT examination and subsequently cutout and rewelded. The RT re-examination issue had been raised by ORP in April of 2006 (Inspection Note A-06-AMWTP-RPPWTP-002-09) but BNI's extent of condition failed to identify that five welds had been replaced but not RT examined as required by the American Society of Mechanical Engineers B31.3 piping code. Section III of the attached report list these findings and contain instructions for responding.

In addition to the above findings, one observation was identified associated with the installation of temporary power for the Chiller/Compressor building roll-up doors. Although the actual hardware deficiency associated with this installation resulted in a minor, non-cited finding, several construction staff performance issues were identified leading to potential opportunities for improvement. The issues included 1) using drawings supplied by a subcontractor without verifying the validity of the drawings (sub-contractor installed systems had not been turned over); 2) developing temporary power modification packages for installed permanent plant equipment without first verifying the configuration of the installed equipment (performing a walk down); 3) accepting the installed temporary power installation without verifying the equipment being powered to ensure BNI installed wire and fuse sizes met code requirements; and 4) field engineering not taking action to address drawing errors once brought to their attention.

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Mr. L. J. Simmons
08-WTP-079

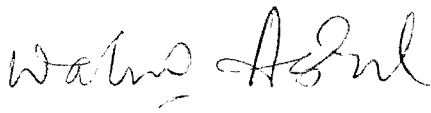
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Along with responding to the findings above, BNI is requested to provide a written response to this observation (S-08-WCD-RPPWTP-001-O06) within 30 days of receiving this letter describing any improvement actions planned or taken to address the issues associated with this observation. Section II observations and conclusion of the attached report includes a discussion of this observation.

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,

for 

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

WTP:JWM

Attachment

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

U.S. DEPARTMENT OF ENERGY
Office of River Protection

INSPECTION: WCD CY 2008 First Quarter Construction Surveillance Summary Report

REPORT NO.: S-08-WCD-RPPWTP-001

FACILITY: Bechtel National, Inc. (BNI)

LOCATION: 2435 Stevens Center Place
Richland, Washington 99354

DATES: January 1, 2008 through March 31, 2008

INSPECTORS: J. Barger, Acceptance Inspector
B. Harkins, Facility Representative
J. Navarro, Facility Representative
E. Enloe, Site Inspector
M. Evarts, Site Inspector
W. Meloy, Site Inspector
W. Smoot, DOE Consultant
R. Taylor, Site Inspector
D. Wallace, Site Inspector

APPROVED BY: K. Wade, Division Director
WTP Construction Oversight and Assurance Division (WCD)

WCD CY 2008 FIRST QUARTER CONSTRUCTION SURVEILLANCE SUMMARY REPORT

I. Introduction

During the period January 1, 2008 through March 31, 2008, the U.S. Department of Energy (DOE), Office of River Protection (ORP), Waste Treatment and Immobilization Plant Project (WTP) Construction Oversight and Assurance Division (WCD) conducted construction inspections of important-to-safety (ITS) and non-ITS (Balance-of-Plant) activities during the construction of the WTP. These inspections were documented in surveillance reports and maintained electronically. There were 131 inspections of various construction activities, summarized in Section II, III, and IV below.

In Sections II and III, findings were identified during performance of some construction oversight surveillances. Findings are characterized in accordance with ORP M 220.1, *Integrated Assessment Program*. A finding is defined as an individual item not meeting a committed requirement (e.g., contract, regulation, safety basis, quality assurance program, authorization basis document, procedure, and Standards/Requirements Identification Documents). ORP M 220.1 provides an option to characterize findings as either cited or non-cited findings. Cited findings require written responses where as non-cited findings do not require a written response. At ORP management's discretion, a finding can be characterized as non-cited, provided it was not willful, programmatic, or a repeat of a previous finding; has minor safety or cost impact; and is being tracked by Bechtel National, Inc.'s (BNI) corrective action program. Section II of this report includes discussions of non-cited findings. Section III of this report includes discussions of cited findings and provides response instructions.

Section IV of this report contained a listing of new follow-up items (findings, non-cited findings, and observations) identified during this inspection period. There is also a list of follow-up items closed during this period. There were 16 follow-up items closed during this period (4 assessment follow-up items, 8 findings, and 4 non-cited findings).

Section V contains a summary listing of the 131 surveillance reports written this inspection period.

II. Observations and Conclusion

- BNI had adequate concrete procedures, controls, and equipment in terms of production, placement, curing, and protection for cold weather concrete placements. Additionally, BNI WTP site winterization activities had been adequately performed. (Surveillance Report 001-01)
- On numerous occasions, BNI was observed performing adequate fit-up and welding using the correct materials, filler metal, and qualified welders and weld examiners in accordance with applicable Contract and engineering requirements. (Surveillance Reports 001-02, 001-11, 001-12, 001-14, 001-15, 001-17, 001-19, 001-21, 001-22, 001-23, 001-24, 001-25,

001-26, 001-28, 001-30, 001-31, 001-33, 001-34, 001-35, 001-36, 001-44, 001-45, 001-46, 001-47, 001-48, 001-51, 001-52, 001-53, 001-54, 001-57, 001-59, 001-60, 001-62, 001-63, 001-64, 001-65, 001-66, 001-67, 001-68, 001-69, 001-70, 001-72, 001-73, 001-75, 001-76, 001-77, 001-78, 001-79, 001-80, 001-81, 001-82, 001-86, 001-87, 001-88, 001-91, 001-92, 001-93, 001-95, 001-96, 001-97, 001-98, 001-100, 001-101, 001-102, 001-106, 001-107, 001-108, 001-112, 001-116, 001-117, 001-118, 001-120, 001-123, 001-126, 001-127, 001-128, 001-129, 001-130, and 001-131)

- On a number of occasions, BNI was observed installing temporary electrical power at various locations throughout the WTP site. BNI had hired an electrical code inspector to inspect completed temporary power installations before energization and, as a result, substantial improvements in complying with the National Electrical Code (NEC) have been noted. Five surveillances identified installations that complied with NEC requirements. However, on five other occasions WCD inspectors identified NEC electrical code violations. Below is a summary of four non-cited findings identified during this inspection period. The fifth NEC violation was characterized as a finding and is discussed in Section III of this report. (Surveillance Reports 001-05, 001-29, 001-55, 001-83, and 001-121)
 - BNI failed to ensure temporary power installed for the roll-up door located at Chiller Compressor Building 82, per Temporary Modification Control Form #24590-BOF-TMOD-CON-08-00007, complied with the NEC and met the requirements of the *Temporary Modification Control Procedure*. BNI installed a 20 amp fuse when a 10 amp fuse was required. This issue met the above non cited finding criteria and is both opened and closed in this report (**Non-cited Finding (S-08-WCD-RPPWTP-001-N03)**). (Surveillance Report 001-90)
 - A deficiency was identified pertaining to bonding the metal raceways in a Marshalling Yard welding booth disconnects. This was contrary to the requirements specified in Section C.7(f) of the Contract (requirement to comply with NEC), and is considered a finding. Because this issue met the above criteria it was characterized as **Non-cited Finding S-08-WCD-RPPWTP-001-N04** and was both opened and closed in this report. (Surveillance Report 001-43)
 - BNI installed #8 American Wire Gauge (AWG) conductors on 50-amp circuit breakers at the motor load centers feeding 50-amp, 240 volt plugs. BNI used the 75°C column of Table 310.16 and determined the ampacity rating of the #8 conductors was 50-amperes. The listing requirements for the plugs required the conductors to have sufficient ampacity in accordance with the 60°C column of Table 310.16. The ampacity rating of the #8 AWG, in the 60°C column is 40-amperes; therefore, #6 AWG conductors (rated 55-amperes) were required. This issue met the above non-cited finding criteria, was corrected during this reporting period, and is both opened and closed in this report (**Non-cited Finding S-08-WCD-RPPWTP-001-N05**). (Surveillance Report 001-89)
 - BNI procured and accepted silo's GFR-TK-00006 and GFR-TK-00012 with internally installed electrical conduit bodies that were not being supported in accordance with NEC requirements. This is a finding against BNI Contract Section C.7(f) regarding the requirement to comply with the NEC but met the requirements above and is

characterized as a non-cited finding (**Non-cited Finding S-08-WCD-RPPWTP-001-N07**). (Surveillance Report 001-109)

- FD Thomas applied and examined special protective coatings for concrete in accordance with specifications, drawings, and procedures. Materials were acceptable and the application was in accordance with the approved procedure (Field Preparation and Coating Work Procedures for WTP Construction Site) and specification (Field Applied Special Protective Coatings for Concrete Surfaces). FD Thomas Quality Control performed the requisite checks and measurements, personnel training and qualification were appropriate, and inspection records provided evidence that the work had been performed correctly. (Surveillance Report 001-10)
- With one exception, Intermech, the WTP subcontractor responsible for fabrication and installation of heating and ventilation ductwork, quality and welding programs were found to be acceptable. The exception regarded Intermech not establishing and implementing a formal program to ensure receipt and fabrication inspectors were knowledgeable and qualified to perform these functions. Failure of BNI to ensure Intermech adequately implemented this Nuclear Quality Assurance (NQA-1) requirement is a finding against BNI Quality Assurance Manual, Policy 07.1, Control of Purchased Items and Services, Section 3.7.1 regarding the requirement to verify supplier (in this case subcontractor) performance to the subcontract. Because this issue met the above criteria, and Intermech's receipt and fabrication inspector was found to be adequately trained and qualified to perform these functions, this issue is considered a non-cited finding (**S-08-WCD-RPPWTP-001-N01**).

Notwithstanding, the above, Intermech's fabrication and installation programs were good, resulting in quality fabrication activities and acceptable installations. This has been evidenced by observations of quality installations and completed systems consistently passing testing activities with a wide margin of acceptance. (Surveillance Report 001-20)

- On a number of occasions, pre-concrete placement inspections including verification of forms, rebar, embedment, and electrical grounding installations were found to meet Contract and design requirements and/or BNI was observed batching, placing, consolidating, and testing concrete in accordance with applicable Contract and engineering requirements. (Surveillance Reports 001-04, 001-06, 001-18, 001-41, 001-42, 001-99, 001-103, 001-104, 001-113, and 001-114)
- BNI successfully tested Process Chilled Water piping spools located at Low Activity Waste (LAW) Building (-) 21'-0" elevation. BNI's installation program adequately addressed procedural and code requirements including test method and acceptance criteria. Test medium was acceptable; test gauges were properly calibrated; test pressures were maintained for the required time interval; potential leak sources were examined in accordance with code requirements; and items tested met the specified acceptance criteria. BNI's testing personnel had been trained for the test method used, and inspection records were adequate. (Surveillance Report 001-16)
- BNI had performed the work required by 24590-WTP-CDR-CON-06-0016 to address the burned oil in BOF Centrifugal Air Compressors PSA-CMP-00001A, 00001B, 00001C, and

00001D in an acceptable manner and periodic preservation and maintenance of these compressors had been restored. (Surveillance Report 001-27)

- BNI had accomplished hydrostatic testing of BOF piping in accordance with established requirements of the American Water Works Association codes and related BNI procedure. The system test conformed to established requirements regarding leakage and time at pressure. (Surveillance Report 001-37)
- 4297 reviewed FWCLs had been completed in accordance with 24590-WTP-MN-CON-01-001-08-01, Welding Documentation (WD-3). (Surveillance Reports 001-38, 001-84, and 001-124)
- FD Thomas applied epoxy sealant/caulk materials at the LAB (+)17'-0" elevation. FD Thomas' installation program adequately addressed specification requirements including inspection methods and acceptance criteria. Materials complied with specified requirements and application was performed in a manner consistent with approved procedures. FD Thomas' installation personnel had received training for the application methods and materials used, and inspection personnel had been trained and certified. Inspections were performed to verify the finished product met specified acceptance criteria, and inspection records were complete and attested to the acceptability of the items examined. (Surveillance Report 001-40)
- Intermech successfully tested C2 ductwork located at LAW +48'-0" elevation. Testing was performed in accordance with the applicable specifications and written procedures. Test equipment was configured properly, and Measurement and Test Equipment (M&TE) was properly calibrated. Testing was performed in accordance with approved procedures and provided verification the ductwork conformed to the leakage criteria specified in contract documents. Intermech's testing personnel had been trained and certified for the test method used, and test records were adequate. (Surveillance Report 001-56)
- Hirschfeld Steel Group's quality program had made sufficient improvements since the last DOE visit to this supplier, had addressed the ORP and BNI issues identified in 2007, and had put a management system in place that should result in sustained improvement. (Surveillance Report 001-58)
- Quality Inspection Services Inc. was performing certification of civil material test technicians to BNI's subcontract requirements and the program stated in Section 10.3.4 of their Quality Assurance Manual and Quality Assurance Procedure 6.1 (QAP 6.1). (Surveillance Report 001-61)
- BNI performed adequate base metal inspection of an embed after the original installed pipe support was removed due to being incorrectly installed at Low Active Waste (LAW) Building (+) 33'- 1/8" elevation. The configuration and orientation of the item conformed to the drawing and met the specified acceptance criteria. BNI used personnel qualified in accordance with the applicable requirements. BNI's inspection personnel had been trained and certified for the examination methods used, and inspection records were adequate. (Surveillance Report 001-71)
- Based on the survey data provided, BNI has installed waste transfer coaxial piping that met the specified criteria for the: LAW Secondary Offgas/Vessel Vent Process System (LVP);

Radioactive Liquid Waste Disposal (RLD); and Treated LAW Concentrate Storage Process System (TCP) lines located between the Pre-Treatment (PT) Building and the High Level Waste (HLW) Building. The configuration and orientation of the items installed conformed to the drawings and slope was within established tolerance. Conformance with criteria substantiated installation program adequacy, and personnel qualifications had been verified and approved. Records provided sufficient information to evaluate the items installed in order to determine compliance with design requirements, and traceability to the pertinent design documents was provided. (Surveillance Report 001-74)

- BNI's performance regarding field engineering work package preparation and verification of field conditions (or otherwise ensure drawings used were accurate), to ensure temporary power installed for the roll-up door located at Chiller Compressor Building 82, per Temporary Modification Control Form #24590-BOF-TMOD-CON-08-00007, complied with the NEC, and their initial efforts to address the as-built configuration of equipment associated with this temporary power installation was poor. BNI's actions to address these performance issues and improve the temporary modification control process will be tracked as **Observation S-08-WCD-RPPWTP-001-O06**. (Surveillance Report 001-90)
- BNI performed and documented the required testing on A490 high strength bolts (1 ½ inch diameter) in accordance with BNI's Problem Identification and Evaluation Report (PIER) written to document the lack of testing of installed bolts in the LAB with five harden washers under the nut. (Surveillance Report 001-94)
- BNI subcontractor George A. Grant, Inc./Drywall Interiors, Inc. had completed a portion of the metal framing for gypsum wall board assemblies located in the LAW Building. The configuration and orientation of the items installed conformed to the drawings. Approved materials had been used and installation personnel were experienced with the installation methods employed. Inspection personnel were knowledgeable and inspection records were adequate. (Surveillance Report 001-119)
- BNI's PIER system provided a suitable means to identify, evaluate, categorize, and elicit resolution of issues affecting the full range of the project work environment. Of the 28 PIERs reviewed from those initiated in 2007, 25 were found to have been acceptably process using BNI's Management of Corrective Action process.

However, three examples of a finding were identified for failure to fully implement the requirements of BNI's Management of Corrective Action process involving: a) closing a PIER before the corrective actions were completed; b) not addressing potentially degraded switchgear and electrical cable; and c) not addressing potential contamination of stainless steel items. These issues met the non-cited finding criteria above and will be tracked to closure as **Non-cited Finding S-08-WCD-RPPWTP-001-N09a, b, and c** respectively. (Surveillance Report 001-122)

- BNI completed 75 Above Ground Piping Inspection Records (APIRs) in accordance with procedure 24590-WTP-WTP-CON-3503, *Aboveground Piping Installation*. (Surveillance Report 001-125)

III. Summary of Findings Requiring Written Response

During performance of assessments of BNI's construction activities, conducted from January 1, 2008 through March 31, 2008, WCD identified the following findings requiring written responses:

1. BNI failed to ensure, prior to energizing, the temporary power installed for Mobile Office T13 complied with the NEC. Three examples were identified as follow: a) undersized secondary conductor; b) grounding conductor not bonded to an enclosure; and c) undersized equipment grounding conductor. This is considered a finding against the requirements specified in Section C.7(f) of the Contract regarding compliance with the NEC (**Finding S-08-WCD-RPPWTP-001-F02a, b, and c**). (Surveillance Report 001-50)
2. A partial review of system packages to verify that pipe fabrication and installation met ASME B31.3 and procedure requirements revealed deficiencies. BNI did not perform required radiograph examination of replacement welds as required by ASME B31.3 paragraph 341.3.3, Defective Components and Workmanship, and procedure 24590-WTP-MN-CON-01-001-08-01. Similar issues were identified in Inspection Note A-06-AMWTP-RPPWTP-002-09 in April 2006; however, BNI's extent of condition review at that time failed to identify these replaced welds. Failure to perform this re-examination is considered a finding against BNI's Quality Assurance Manual, Policy Q-05.1, Instruction, Procedures, and Drawings, Section 3.1.1, regarding the requirement to perform work in accordance with procedures (**Finding S-08-WCD-AMWTP-001-F08**). (Surveillance Report 001-111)

The ORP Manager requests BNI to provide a response to the above findings, within 30 days of receipt of this report. The response should include:

- The causes of the findings;
- The corrective actions that have been taken to control or remove any adverse impact from noncompliant conditions (remedial actions) and the results achieved;
- The corrective actions that have been or will be taken to identify the extent of condition, correct the causes(s), and prevent further findings; and
- The date when all corrective actions will be completed, verified, and compliance to applicable requirements achieved.

IV. List of Assessment Items Opened, Closed, and Discussed

Opened

S-08-WCD-RPPWTP-001-N01	Non-cited Finding	Failure of BNI to ensure Intermech adequately implemented the NQA-1 requirement regarding qualification of inspectors (receipt and final product). (Surveillance Report 001-20)
S-08-WCD-RPPWTP-001-F02a, b, & c	Finding	Three examples of failure to meet NEC

Opened

		requirements for T13 Mobile Office as follow: a) undersized secondary conductor; b) grounding conductor not bonded to an enclosure; and c) undersized equipment grounding conductor. (Surveillance Report 001-50)
S-08-WCD-RPPWTP-001-N03	Non-cited Finding	BNI had installed 20 amp fuses when a 10 amp fuse was required for temporary power to roll-up doors. (Surveillance Report 001-90)
S-08-WCD-RPPWTP-001-N04	Non-cited Finding	Failure to properly bond the metal raceways in a Marshalling Yard welding booth disconnects. (Surveillance Report 001-43)
S-08-WCD-RPPWTP-001-N05	Non-cited Finding	Failure to install the correct sized conductors-use of wrong NEC sizing column. (Surveillance Report 001-89)
S-08-WCD-RPPWTP-001-O06	Observation	Poor Field Engineering performance regarding roll-up door work package preparation and verification of field conditions, and their initial efforts to address the as-built configuration of equipment. (Surveillance Report 001-90)
S-08-WCD-RPPWTP-001-N07	Non-cited Finding	Failure to support conduit runs on glass former silos per NEC. (Surveillance Report 001-109)
S-08-WCD-RPPWTP-001-F08	Finding	Failure to perform re-examinations when Radiographic exams of welds were rejected, cut-out, and re-welded. (Surveillance Report 001-111)
S-08-WCD-RPPWTP-001-N09	Non-cited Finding	2 of 28 PIERs reviewed did not follow the PIER Process. (Surveillance Report 001-122)

Closed

A-05-AMWTP-RPPWTP-004-A02	Assessment Follow-up Item	Follow-up on BNI actions to address Simulator Building grounding conductor sizing issue for Panelboard DPE. (Surveillance Report 001-32)
A-05-AMWTP-RPPWTP-004-F03	Finding	Contrary to Contract DE-AC27-01RV14136, Section I.88, FAR 52.245-5, section (e) <i>Property administration</i> , subsection (2), BNI was not maintaining the BOF Centrifugal Air Compressors in accordance with 24590-CM-POA-MCCA-00001-10-00010, <i>Atlas Copco Long Term Storage Procedure WI-108</i> , Revision 7. (Surveillance Report 001-27 and Inspection Note A-07-AMWTP-RPPWTP-002-07)
A-06-AMWTP-RPPWTP-001-F08	Finding	Follow-up on Contractor actions to address Cable Tray Support inspection documentation issues. (Surveillance Report 001-115)
A-06-AMWTP-RPPWTP-004-N04	Non-Cited Finding	BNI did not adequately oversee the quality program at Paxton & Vierling Steel Company. (Surveillance Report 001-39)
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. (Surveillance Report 001-09)
A-07-AMWTP-RPPWTP-001-F04a&b	Finding	Failure to implement the requirements of NFPA 70E regarding (a) ensuring current revisions of drawings were used to determine electrical supply sources, and (b) performing adequate zero energy checks before working on the three transformers. (Surveillance Report 001-13)
A-07-AMWTP-RPPWTP-002-A04	Assessment Follow-up Item	Follow-up on potential NEC compliance issues with T52 Warehouse building as-built drawings. (Surveillance Report 001-85)
A-07-AMWTP-RPPWTP-002-F06	Finding	Failure to follow procedures resulting

Closed

		in missing information on APIRs, such as component numbers, incremental torque values, and torque verification signatures. (Surveillance Report 001-49)
A-07-AMWTP-RPPWTP-002-A17	Assessment Follow-up Item	Follow-up on ORP obtaining a clarification of confined space entry using ventilation, and BNI issuing procedure change to address confined space permit change process. (Surveillance Report 001-08)
A-07-AMWTP-RPPWTP-003-A08	Assessment Follow-up Item	Follow-up on BNI actions to address 29 CFR Section 1910.303(f)(4) requirement to have disconnecting means and circuits for motors and appliances to be capable of accepting a lock. (Surveillance Report 001-03)
A-07-AMWTP-RPPWTP-003-F12	Finding	Failure to ensure Substation 9 circuits were safe to energize after identifying a ground fault condition. (Surveillance Report 001-07)
S-07-WCD-RPPWTP-004-F02	Finding	Grounding electrode conductor routed from 240-volt panelboard (installed on F. D. Thomas' dust collector trailer) was not installed in one continuous length to the grounding electrode. (Surveillance Report 001-105)
S-07-WCD-RPPWTP-004-F03	Finding	At the T05 – Craft Change House east of Pretreatment Facility, BNI installed the equipment grounding conductor (routed from the generator to the junction box) exterior of the cable. (Surveillance Report 001-110)
S-08-WCD-RPPWTP-001-N03	Non-cited Finding	BNI had installed 20 amp fuses when a 10 amp fuse was required for temporary power to roll-up doors. (Surveillance Report 001-90)
S-08-WCD-RPPWTP-001-N04	Non-cited Finding	Failure to properly bond the metal raceways in the Marshalling Yard welding booth disconnects. (Surveillance Report 001-43)
S-08-WCD-RPPWTP-001-N05	Non-cited Finding	Failure to install the correct sized conductors-use of wrong NEC sizing column. (Surveillance Report 001-89)

V. List of Surveillance Reports Issued During the Assessment Period

<u>Surveillance Report Number</u>	<u>Inspection Subject</u>
S-08-WCD-RPPWTP-001-01	Cold Weather Concrete preparations
S-08-WCD-RPPWTP-001-02	Weld inspection LAW
S-08-WCD-RPPWTP-001-03	Closure of Assessment Item 07-003-A08
S-08-WCD-RPPWTP-001-04	Concrete pre-placement inspection BOF 1058C
S-08-WCD-RPPWTP-001-05	Electrical temporary power BOF
S-08-WCD-RPPWTP-001-06	Concrete placement LAW
S-08-WCD-RPPWTP-001-07	Closure of finding 07-003-F12
S-08-WCD-RPPWTP-001-08	Closure of Assessment Item 07-002-A17
S-08-WCD-RPPWTP-001-09	Closure of finding 07-001-F02
S-08-WCD-RPPWTP-001-10	Special Protective Coatings inspection LAW
S-08-WCD-RPPWTP-001-11	Weld inspection LAW
S-08-WCD-RPPWTP-001-12	Weld inspection LAW
S-08-WCD-RPPWTP-001-13	Closure of finding 07-001-F04a
S-08-WCD-RPPWTP-001-14	Weld inspection LAW
S-08-WCD-RPPWTP-001-15	Weld inspection LAW
S-08-WCD-RPPWTP-001-16	Pressure testing of LAW piping
S-08-WCD-RPPWTP-001-17	Weld inspection LAW
S-08-WCD-RPPWTP-001-18	Concrete placement HLW 1008
S-08-WCD-RPPWTP-001-19	Leveling bolts welding LAB
S-08-WCD-RPPWTP-001-20	Intermech Supplier/sub-contractor inspection
S-08-WCD-RPPWTP-001-21	Weld inspection LAW
S-08-WCD-RPPWTP-001-22	Weld inspection LAW
S-08-WCD-RPPWTP-001-23	Weld inspection LAW
S-08-WCD-RPPWTP-001-24	Weld inspection LAW
S-08-WCD-RPPWTP-001-25	Weld inspection LAB
S-08-WCD-RPPWTP-001-26	Weld inspection PTF
S-08-WCD-RPPWTP-001-27	Inspection of BOF Centrifugal Air Compressors
S-08-WCD-RPPWTP-001-28	Weld inspection LAW
S-08-WCD-RPPWTP-001-29	Electrical inspection of LAB temporary power
S-08-WCD-RPPWTP-001-30	Weld inspection LAB
S-08-WCD-RPPWTP-001-31	Weld inspection LAW
S-08-WCD-RPPWTP-001-32	Closure of Assessment Item 05-004-A01
S-08-WCD-RPPWTP-001-33	Weld inspection LAW
S-08-WCD-RPPWTP-001-34	Weld inspection PTF
S-08-WCD-RPPWTP-001-35	Weld inspection PTF
S-08-WCD-RPPWTP-001-36	Weld inspection PTF
S-08-WCD-RPPWTP-001-37	Hydrostatic test of BOF piping
S-08-WCD-RPPWTP-001-38	Final FWCL review
S-08-WCD-RPPWTP-001-39	Closure of non-cited finding 06-004-N04
S-08-WCD-RPPWTP-001-40	Epoxy caulking at LAB
S-08-WCD-RPPWTP-001-41	Concrete placement HLW 1100

S-08-WCD-RPPWTP-001-42	Concrete placement HLW 1009
S-08-WCD-RPPWTP-001-43	Electrical inspection Marshalling Yard
S-08-WCD-RPPWTP-001-44	Weld inspection LAB
S-08-WCD-RPPWTP-001-45	Weld inspection LAW
S-08-WCD-RPPWTP-001-46	Weld inspection LAW
S-08-WCD-RPPWTP-001-47	Weld inspection LAW
S-08-WCD-RPPWTP-001-48	Weld inspection LAW
S-08-WCD-RPPWTP-001-49	Closure of 07-002-F06
S-08-WCD-RPPWTP-001-50	Electrical inspection temporary power BOF
S-08-WCD-RPPWTP-001-51	Weld inspection LAW
S-08-WCD-RPPWTP-001-52	Weld inspection LAW
S-08-WCD-RPPWTP-001-53	Weld inspection LAW
S-08-WCD-RPPWTP-001-54	Weld inspection HLW
S-08-WCD-RPPWTP-001-55	Electrical inspection of temporary power BOF
S-08-WCD-RPPWTP-001-56	C2 Ductwork leak test LAW
S-08-WCD-RPPWTP-001-57	Weld inspection HLW
S-08-WCD-RPPWTP-001-58	Supplier inspection of Hirschfeld
S-08-WCD-RPPWTP-001-59	Weld inspection BOF
S-08-WCD-RPPWTP-001-60	Weld inspection BOF
S-08-WCD-RPPWTP-001-61	QISI civil inspection program review
S-08-WCD-RPPWTP-001-62	Weld inspection LAW
S-08-WCD-RPPWTP-001-63	Weld inspection LAW
S-08-WCD-RPPWTP-001-64	Weld inspection LAW
S-08-WCD-RPPWTP-001-65	Weld inspection LAW
S-08-WCD-RPPWTP-001-66	Weld inspection PTF
S-08-WCD-RPPWTP-001-67	Weld inspection LAW
S-08-WCD-RPPWTP-001-68	Weld inspection LAB
S-08-WCD-RPPWTP-001-69	Weld inspection BOF
S-08-WCD-RPPWTP-001-70	Weld inspection LAW
S-08-WCD-RPPWTP-001-71	Base metal inspection LAW
S-08-WCD-RPPWTP-001-72	Weld inspection LAW
S-08-WCD-RPPWTP-001-73	Weld inspection LAW
S-08-WCD-RPPWTP-001-74	Review of survey of as-built co-ax pipe (BOF)
S-08-WCD-RPPWTP-001-75	Weld inspection LAW
S-08-WCD-RPPWTP-001-76	Weld inspection BOF
S-08-WCD-RPPWTP-001-77	Weld inspection LAW
S-08-WCD-RPPWTP-001-78	Weld inspection LAB
S-08-WCD-RPPWTP-001-79	Weld inspection HLW
S-08-WCD-RPPWTP-001-80	Weld inspection PTF
S-08-WCD-RPPWTP-001-81	Weld inspection PTF
S-08-WCD-RPPWTP-001-82	Weld inspection LAW
S-08-WCD-RPPWTP-001-83	Electrical inspection temporary power BOF
S-08-WCD-RPPWTP-001-84	Review of Final FWCLs
S-08-WCD-RPPWTP-001-85	Closure of Assessment Item 07-002-A04
S-08-WCD-RPPWTP-001-86	Weld inspection BOF
S-08-WCD-RPPWTP-001-87	Weld inspection BOF

S-08-WCD-RPPWTP-001-88	Weld inspection HLW
S-08-WCD-RPPWTP-001-89	Electrical inspection of LAW temporary power
S-08-WCD-RPPWTP-001-90	Electrical Temporary Power for BOF roll-up doors
S-08-WCD-RPPWTP-001-91	Weld inspection LAW
S-08-WCD-RPPWTP-001-92	Weld inspection LAW
S-08-WCD-RPPWTP-001-93	Weld inspection LAW
S-08-WCD-RPPWTP-001-94	Tension bolt testing LAB
S-08-WCD-RPPWTP-001-95	Weld inspection LAW
S-08-WCD-RPPWTP-001-96	Weld inspection HLW
S-08-WCD-RPPWTP-001-97	Weld inspection BOF
S-08-WCD-RPPWTP-001-98	Weld inspection BOF
S-08-WCD-RPPWTP-001-99	Concrete placement PTF 3-58
S-08-WCD-RPPWTP-001-100	Weld inspection LAW
S-08-WCD-RPPWTP-001-101	Weld inspection HLW
S-08-WCD-RPPWTP-001-102	Weld inspection HLW
S-08-WCD-RPPWTP-001-103	Concrete placement PTF 3-27C
S-08-WCD-RPPWTP-001-104	Concrete pre-placement BOF CPE-RECT-50001 & 6
S-08-WCD-RPPWTP-001-105	Closure of finding 07-004-F02
S-08-WCD-RPPWTP-001-106	Weld inspection LAW
S-08-WCD-RPPWTP-001-107	Weld inspection HLW
S-08-WCD-RPPWTP-001-108	Weld inspection LAW
S-08-WCD-RPPWTP-001-109	Inspection of glass former silos BOF
S-08-WCD-RPPWTP-001-110	Closure of finding 07-004-F03
S-08-WCD-RPPWTP-001-111	Review of final FWCLs
S-08-WCD-RPPWTP-001-112	Weld inspection BOF
S-08-WCD-RPPWTP-001-113	Concrete placement HLW 1115
S-08-WCD-RPPWTP-001-114	Concrete placement HLW 1104
S-08-WCD-RPPWTP-001-115	Closure of finding 06-001-F08
S-08-WCD-RPPWTP-001-116	Weld inspection LAW
S-08-WCD-RPPWTP-001-117	Weld inspection BOF
S-08-WCD-RPPWTP-001-118	Weld inspection BOF
S-08-WCD-RPPWTP-001-119	Installation of metal framing for gypsum board LAW
S-08-WCD-RPPWTP-001-120	Weld inspection LAW
S-08-WCD-RPPWTP-001-121	Electrical temporary power BOF
S-08-WCD-RPPWTP-001-122	CY 2007 PIER Review
S-08-WCD-RPPWTP-001-123	Weld inspection BOF
S-08-WCD-RPPWTP-001-124	FWCL records review
S-08-WCD-RPPWTP-001-125	APIR records review
S-08-WCD-RPPWTP-001-126	Weld inspection LAW
S-08-WCD-RPPWTP-001-127	Weld inspection BOF
S-08-WCD-RPPWTP-001-128	Weld inspection HLW
S-08-WCD-RPPWTP-001-129	Weld inspection LAW
S-08-WCD-RPPWTP-001-130	Weld inspection BOF
S-08-WCD-RPPWTP-001-131	Weld inspection HLW