



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION II
245 PEACHTREE CENTER AVENUE NE, SUITE 1200
ATLANTA, GEORGIA 30303-1257

October 20, 2014

Mr. Ronald A. Jones
Vice President, New Nuclear Operations
South Carolina Electric and Gas
P.O. Box 88 (Mail Code P40)
Jenkinsville, SC 29065-0088

**SUBJECT: VIRGIL C. SUMMER NUCLEAR STATION UNITS 2 AND 3 – NRC PERIODIC
QUALITY ASSURANCE INSPECTION REPORTS 05200027/2014014 and
05200028/2014014**

Dear Mr. Jones:

On September 18, 2014, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at your Virgil C. Summer Nuclear Station Units 2 and 3. The enclosed inspection report documents the inspection results, which the inspectors discussed with you and other members of your staff and the Consortium staff on September 18, 2014, and again on October 15, 2014.

The inspection examined a sample of construction activities conducted under your license as they relate to safety and compliance with the Commission's rules and regulations and with the conditions of your license. These activities included programmatic elements to include the Quality Assurance Program as described in your license. Within these areas, the inspection involved examination of selected procedures and representative records, observations of activities, and interviews with personnel.

Based on the results of this inspection, the inspection team concluded that the implementation of the quality assurance program at Virgil C. Summer Nuclear Station Units 2 and 3 was effective.

No findings were identified during this inspection.

In accordance with 10 Code of Federal Regulations (CFR) 2.390 of the NRC's "Rules of Practice," a copy of this letter, its enclosure, and your response (if any) will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

R. Jones

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Should you have any questions concerning this letter, please contact us.

Sincerely,

/RA/

Michael Ernstes, Branch Chief
Construction Projects Branch 4
Division of Construction Projects

Docket Nos.: 5200027, 5200028

Combined Licenses (COL) Nos: NPF-93, NPF-94

Enclosure: NRC Inspection Report (IR)
05200027/20140012, 05200028/20140012
w/attachment: Supplemental Information

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Sincerely,

/RA/

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 w/attachment: Supplemental Information

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 NON-SENSITIVE
 ADAMS: Yes
 ACCESSION NUMBER: ML14293A325
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 FORM 665 ATTACHED

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| OFFICE | RII: DCI | RII: DCI | RII: DCI | RII: DCI | | | |
| SIGNATURE | TCS via e-mail | MXS1 via e-mail | JGV1 via e-mail | DXT2 via e-mail | | | |
| NAME | T. Steadham | M. Shannon | J. Vasquez | D. Terry-Ward | | | |
| DATE | 10/17/2014 | 10/17/2014 | 10/17/2014 | 10/16/2014 | | | |
| E-MAIL COPY? | YES NO | YES NO | YES NO | YES NO | | | |
| | | | | | | | |

OFFICIAL RECORD COPY DOCUMENT NAME:
 G:\CC\DCP\CPB4\Project V C Summer\Inspection Reports\2014-014\Inspection Report 2014014.docx

cc w/ encls:

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Letter to R. Jones from Michael E. Ernstes dated October 20, 2014

SUBJECT: VIRGIL C. SUMMER NUCLEAR STATION UNITS 2 AND 3 – NRC PERIODIC
QUALITY ASSURANCE INSPECTION REPORTS 05200027/2014014 and
05200028/2014014

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**U.S. NUCLEAR REGULATORY COMMISSION
Region II**

Docket Numbers: 5200027
5200028

License Numbers: NPF-93
NPF-94

Report Numbers: 05200027/2014014
05200028/2014014

Licensee: South Carolina Electric & Gas

Facility: Virgil C. Summer Nuclear Station Unit 2
Virgil C. Summer Nuclear Station Unit 3

Location: Jenkinsville, SC

Inspection Dates: September 15, 2014 through September 18, 2014

Inspectors: M. Shannon, Senior Construction Inspector, DCI
T. Steadham, Senior Construction Inspector, DCI
D. Terry-Ward, Construction Inspector, DCI
J. Vasquez, Construction Inspector, DCI

Approved by: Michael Ernstes, Chief
Construction Projects Branch 4
Division of Construction Projects

Enclosure

SUMMARY OF FINDINGS

Inspection Report (IR) 05200027/2014014, 05200028/2014014; 09/15/2014 through 09/18/2014; Virgil C. Summer Nuclear Station Units 2 and 3; Routine Program Inspection for Quality Assurance Program Implementation During Construction Activities.

This report covers a one week period of inspection by regional inspectors. The Nuclear Regulatory Commission's (NRC's) program for overseeing the construction of commercial nuclear power reactors is described in IMC 2506, "Construction Reactor Oversight Process General Guidance and Basis Document."

A. NRC-Identified and Self Revealed Findings

No findings were identified.

B. Licensee-Identified Violations

No findings were identified.

REPORT DETAILS

1. CONSTRUCTION REACTOR SAFETY

Cornerstones: Design/Engineering, Procurement/Fabrication

IMC 2504, Inspection of Construction Programs

Quality Assurance Program Implementation During Construction and Pre-Construction Activities (IP 35007)

1P01 Inspection of Construction Quality Assurance Implementation

.1 Appendix 4, Inspection of Criterion IV - Procurement Document Control

a. Inspection Scope

The inspectors reviewed a sample of recently issued Westinghouse Electric Company, LLC (WEC) and Chicago Bridge and Iron (CB&I) procurement documents for both safety related and risk significant non-safety related items to determine if the purchase documents were prepared and issued in accordance with the applicable Quality Assurance (QA) program requirements, design specifications, and the Updated Final Safety Analysis Report. The inspectors reviewed these documents to determine if:

- procurement documents were prepared in accordance with the applicable implementing documents;
- items were purchased from qualified contractors who remained qualified at all relevant times through component delivery;
- procurement documents contained requirements for the contractor to provide appropriate documentation of quality, including component traceability;
- procurement document was maintained in the applicable document control program; and
- specifications differing from the original design documents were reviewed and approved by qualified technical personnel and transmitted to the contractor in accordance with applicable procedures.

The inspectors performed these reviews for the following components:

- Unit 2 diverse actuation system processor VS2-DAS-JD-001, WEC purchase order no. NV-02SR733605;
- Unit 2 diverse actuation system squib valve controller VS2-DAS-JD-003, WEC purchase order no. NV-02SR733605;
- Unit 2 'A' standby diesel generator cooling water radiator VS2-Z0S-MS-04A, CB&I purchase order no. 132177-MS40.01;
- Unit 3 'A' standby diesel generator air start skid VS2-Z0S-MS-02A, CB&I purchase order no. 132178-MS40.01;
- Unit 2 residual heat removal suction header motor-operated containment isolation valve RNS-PL-V022, WEC purchase order no. 4500315849;
- Unit 2 American Society of Mechanical Engineers (ASME) Section III pipe spool piece VS2-RNS-PLW-17A-1, CB&I purchase order no. J132177-C601.02;

- Unit 2 ASME Section III pipe spool piece VS2-RNS-PLW-090-4, CB&I purchase order no. J132177-C601.02;
- Unit 2 ASME Section III pipe spool piece VS2-PXS-PLW-02Z-2, CB&I purchase order no. J132177-C601.02;
- Unit 2 ASME Section III pipe spool piece VS2-PXS-PLW-664-2, CB&I purchase order no. J132177-C601.02;
- Unit 2 accumulator PXS-MT-01A, WEC purchase order no. 4500273230; and
- Unit 2 reactor vessel closure head studs, WEC purchase order no. 4500266008.

b. Findings

No findings were identified.

.2 Appendix 6, Inspection of Criterion VI – Document Control

a. Inspection Scope

The inspectors reviewed purchase orders and specifications for the components identified in Section 1P01.1 of this report to determine if the documents were reviewed and approved by personnel other than the originators of these documents. The inspectors also verified that the revisions of controlled documents were performed by the same organization where the documents were originated. The inspectors reviewed recently issued receipt inspection reports for safety related items to determine if the items on the equipment list match the contents of the crate and that the appropriate technical documentation was provided by the supplier.

The inspectors interviewed licensee personnel responsible for protective maintenance to determine whether they were knowledgeable of their respective processes for document control and traceability.

b. Findings

No findings were identified.

.3 Appendix 7, Inspection of Criterion VII - Control of Purchased Material, Equipment, and Services

a. Inspection Scope

For the components identified in Section 1P01.1 of this report, the inspectors identified the vendor who supplied the component and examined the associated documentation that supported their inclusion on the nuclear quality approved supplier list (ASL) to verify if:

- an audit, surveillance or other method was conducted and documented and that it supported the placement or retention of the contractor on the ASL;
- the vendor was on the nuclear quality ASL at the time the item was procured;
- the personnel who conducted the audit, surveillance or evaluation were qualified in accordance with the applicable procedure;

- deficiencies relating to implementation of the contractor's QA program were being tracked in accordance with applicable procedures; and
- evaluations of identified deficiencies were performed to determine the overall impact on retaining the contractor on the ASL.

The inspectors reviewed documents and physically inspected each component to verify if:

- the item was examined for conformance with requirements specified in the procurement document (including approved changes) by authorized/qualified personnel;
- a documented determination of acceptability was made;
- the item was tagged/marked as acceptable for use, as acceptable with condition, or unacceptable. If the item was determined to be unacceptable, the inspectors also verified if the item was segregated or marked as unavailable for use and if a nonconformance report or corrective action report was initiated in accordance with applicable procedures;
- the source inspection and/or receiving inspection records, as applicable, documented adequate objective evidence to determine if the acceptance criteria were met to provide reasonable assurance that the item met the established technical and quality procurement requirements; and
- all items related to the component, such as spare parts and technical/quality documents, were received as described in the applicable procurement document.

b. Findings

No findings were identified.

.4 Appendix 8, Inspection of Criterion VIII - Identification and Control of Materials, Parts and Components

a. Inspection Scope

For the components identified in Section 1P01.1 of this report, the inspectors verified if they were properly identified and controlled in accordance with the licensee implementing procedures. The inspectors also reviewed receipt purchase orders, inspection reports, certificate of conformance, ASME data reports, non-conformance reports, and applicable procedures to determine if the traceability of the component was consistent and accurate from identification of the item through the resultant documentation of the item. In addition, the inspectors reviewed recently issued receipt inspection reports to determine if the items on the equipment list matched the items in storage and that the appropriate technical documentation was provided by the supplier.

The inspectors performed a walkdown of the storage of each component to determine if the identification methods used physical markings. In addition, the inspectors also examined the identification and traceability methods for nonconforming items to determine if the items were properly tagged and segregated.

b. Findings

No findings were identified.

.5 Appendix 13, Inspection of Criterion XIII – Handling, Storage, and Shipping

a. Inspection Scope

The inspectors observed the designated storage areas for each of the components identified in Section 1P01.1 of this report to determine if the components were being stored in accordance with the applicable procedures. The inspectors examined various elements of the storage of items including the following:

- storage levels for items were properly classified;
- storage location met the requirements of the intended storage level classification including adequate environmental, animal/pest damage or infestation, and security protection;
- caps, plugs and tape were used as required to prevent deterioration of items;
- containers, crating and skids were used during storage as necessary;
- containers and items were adequately marked to provide for proper identification;
- nonconforming items discovered during receiving inspection were properly identified, stored and segregated with controlled access;
- the storage area was well drained and paved;
- preventative maintenance activities for equipment in storage were identified and performed;
- the storage area was removed from the actual construction area and traffic to avoid damage from outside sources;
- appropriate cribbing was used;
- the storage area was clean and free of loose debris;
- temperature and humidity logs determined that this area met requirements;
- access to the enclosed storage area was controlled via lock; and
- a log was maintained to ensure that only designated personnel gained entry.

b. Findings

No findings were identified.

.6 Appendix 18, Inspection of Criterion XVIII – Audits

a. Inspection Scope

The inspectors examined both the licensee and the CB&I current long-range internal and external audit schedules to verify if the areas to be audited and audit frequencies identified were consistent with applicable procedures. The inspectors selected a sample of the most recently completed audit reports to verify the following for each:

- the audit was included in the audit schedule;
- the audit was performed within the scheduled time frame;
- an audit plan was prepared and issued;

- the audit report included a determination of effectiveness of implementation and compliance with the QA program;
- the audit report was reviewed by management responsible for the audited area;
- the audit report was distributed to designated organizations;
- the audit report included a summary of identified deficiencies and non-conformances and a response due date; and
- audit findings corrected during the audit were documented and verified during the audit process.

The inspectors reviewed the following audits:

- CB&I external audit of Milton CAT Power Systems dated July 9, 2014
- CB&I external audit no. V2014-17 of CBI-Laurens dated March 20, 2014
- CB&I internal audit no. 2014-77 dated June 5, 2014
- WEC external audit no. WES-2014-057-R of Lisega, Inc. dated May 29, 2014
- WEC internal audit no. WEC-13-62 dated January 9, 2014
- licensee external audit no. 2013-0070 of Shaw Nuclear Services, Inc. dated July 8, 2013
- licensee external audit no. NND-14-0065 of AP1000 Consortium dated February 19, 2014

The inspectors selected a sample of two lead auditors to verify if they were qualified and trained in accordance with applicable procedures. The inspectors also verified whether the lead auditors were sufficiently independent of the activity being audited (i.e. did not have direct responsibility in the areas that were audited and did not perform the work being audited).

The inspectors reviewed a sample of deficiencies identified during previous QA audits to verify if the deficiencies and non-conformances identified during the audit had either been resolved or were being tracked as open items with a defined schedule for resolution. The inspectors reviewed two deficiencies from CB&I audit V2014-17 and two deficiencies from licensee audit no. 2013-0070.

For each audit, the inspectors verified if the results of audit activities were sufficient to ascertain the general status of the contractor's implemented QA activities for the requirements in specific procurement documents. For audits that documented follow-up activities to previously performed audits, the inspectors verified if the follow-up activity fully addressed expressed concerns and if previously identified concerns were appropriately resolved.

b. Findings

No findings were identified.

4. OTHER INSPECTION RESULTS

4A06 Meetings, Including Exit

.1 Exit Meeting

On September 18, 2014, the inspectors presented the inspection results to Ronald Jones, Vice President New Nuclear Deployment, along with other licensee and consortium staff members. The inspectors stated that no proprietary information would be included in the inspection report.

.2 Re-Exit Meeting

On October 15, 2014, the inspectors performed a phone re-exit with members of the licensee staff.

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licenseses and Contractor Personnel

| | |
|--------------|--------------------------------------|
| K. Brown | PM Manager/Engineering Turnover |
| J. Cole | Principle Licensing Engineer |
| J. Ewing | Senior Consortium Licensing Engineer |
| M. Fanguy | Engineering Supervisor (SCE&G) |
| J. Forschein | Principle Licensing Engineer (WEC) |
| N. Hamm | Field Operation Project Manager |
| D. Hunt | QA Manager (WEC) |
| J. Johnson | QA Manager (CB&I) |
| R. Jones | VP – NND (SCE&G) |
| C. Levesque | Consortium Project Director |
| A. Marciano | Director (CB&I) |
| B. McIntyre | Consortium Licensing Director |
| G. Moffett | Engineering Supervisor (SCE&G) |
| A. Rice | Licensing Supervisor (SCE&G) |
| G. Sanders | Licensing (SCE&G) |
| A. Underwood | Engineering Supervisor (SCE&G) |
| I. Watkins | Field Material Manager (CB&I) |
| R. Word | Manager OD&P (SCE&G) |

LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED

Opened and Closed

None.

LIST OF DOCUMENTS REVIEWED

Procedures

APP-DAS-J0M-001, AP1000 Diverse Actuation System – Technical Manual, Rev. 1
 APP-GW-VHP-002, Packing and Crating Instructions for Westinghouse Equipment, Rev. 2
 APP-DAS-J4-001, AP1000 Diverse Actuation System, System Design Specification, Rev. 4
 NCSP 03-14, Housekeeping and Work Area Cleanliness, Rev. 0
 NCSP 03-16-1, Preventive Maintenance (PM) Program, dated 8/23/2012
 NPP 10-01-03, Material Receipt Storage and Control, date of change July 15, 2013
 Quality Management System, Westinghouse, Rev. 6
 Quality Management System, Westinghouse, Rev. 7
 QS 13.12, Material/Equipment Maintenance, Rev. D
 South Carolina Electric & Gas Co., V.C. Summer Units 2 and 3 Quality Assurance Program Description, Rev. 3
 WEC 13.1, Handling, Storage, Packing, Cleaning, and Shipping, Rev. 2.0
 QA-7.14, Annual Supplier Evaluation, Rev. 1
 QS 18.01, Quality Audit Program, Rev. 02.01
 QAD 18.01, Quality Assurance Audits, Rev. 04.00
 WEC 18.1, Internal Audits, Rev. 3.0
 WEC 18.5, External Audits and Regulatory Inspections, Rev. 1.0
 NND-QS-0006, NND QS Audit and QAPD Review Programs, Rev. 1
 QAD 7.14 Receiving Inspection, Rev. 001
 APP-GW-GAP-106, Corrective Action Interface, Rev. 5
 APP-GW-GAP-113, Consortium AP1000 Receiving Interface, Rev. 3
 APP-GW-VHP-002, Packing and Crating Instructions for Westinghouse Equipment, Rev. 2
 APP-GW-GAM-200, AP1000 Quality Assurance Requirements for RTNSS Systems, Structures, and Components, Rev. 2
 APP-MS40-Z0-002, Design Specification for the Standby Diesel Generators
 MC002-APP-QAD-002, Milton CAT Power Systems Manufacturing Inspection and Test Plan (MI&TP)
 ES-321, Procurement of Material and Services, Rev. 10
 ES-343, Supplier Qualification, Rev. 9
 ES-344, Supplier Surveillance, Rev. 5
 ES-346, Supplier Evaluations, Rev. 6
 WEC-4.1, Customer Order Process/Work Authorization, Rev. 2.1
 VS2-MS40-Z0-002-0-ADD, Supplemental QA Requirements for Specification VS2-MS40-Z0-002: Standby Diesel Generator Unit
 WEC 6.1, Document Control, Rev. 5.0
 APP-GW-GDP-054 (APIP 4-5-0), Discrepancy Issue Request System, Rev. 0
 APP-GW-GAP-113, Consortium AP1000 Receiving Interface, Rev. 3
 AP1000 Consortium Receipt Activity Checklist, AP1000 Doc. # VS2-DAS-ZRT-001, Rev. 0
 WEC 8.1, Identification and Control of Items, Rev. 1
 WNA-WI-00181-WAPP, Manufacturing Quality Plans, Rev. 2

Records/Logs

Equipment Preservation Check Record (EPCR), Diverse Actuation System Processor Cabinet 1, dated 8/07/2014
 Equipment Preservation History Card (EPHC), MRR No. 132177-MRR-10023, Diverse Actuation System Processor Cabinet 2, dated 6/12/2014
 Equipment Preservation History Card (EPHC), MRR No. 132177-MRR-10023, Diverse Actuation System Processor Cabinet 1, dated 6/12/2014

Westinghouse Manufacturing Work Order, EDMS WNA-MWO-13-00345, Rev. 0
 Westinghouse Manufacturing Work Order, EDMS WNA-MWO-13-00345, Rev. 1
 Temperature/Humidity logs for level A CB&I Power Warehouse facilities. September 16, 2014

Corrective Action Documents

CAR 2014-1237
 CAR 2014-1841
 CAR 2013-1648
 CAR 2013-2151
 CR-NND-14-01287
 CAR 2014-1841
 CAR 2014-1680
 N&D VS2-PXS-GNR-000001
 Field Deviation Report VS2-MV01-GNR-029
 CAR 2014-0586
 CAR 2014-0761
 N&D No. VS2-JS93-GNR-000001, VS2-DAS-JD-001 and 002 DAS Processor Cabinet 1 and 2,
 Rev. 0
 N&D No. VS2-JS93-GNR-000002, VS2-DAS-JD-003 Squib Valve Cab, Rev. 0

Audit Schedules

SCE&G 2014 audit schedule, dated 5/6/14
 SCE&G 2013 audit schedule, dated 8/7/13
 CB&I 2014 audit schedule, Rev. 13

Audits

CB&I external audit of Milton CAT Power Systems dated July 9, 2014
 CB&I external audit no. V2014-17 of CBI-Laurens dated March 20, 2014
 CB&I internal audit no. 2014-77 dated June 5, 2014
 WEC external audit no. WES-2014-057-R or Lisega, Inc. dated May 29, 2014
 WEC internal audit no. WEC-13-62 dated January 9, 2014
 SCE&G external audit no. 2013-0070 of Shaw Nuclear Services, Inc. dated July 8, 2013
 SCE&G external audit no. NND-14-0065 of AP1000 Consortium dated February 19, 2014

Procurement Documents

PO 132177 MS-40.01-Rev 0, 1, 2, and 3, Purchase Order for Standby Diesel Generators
 PO No. J132177-Westinghouse-SBOM-13-00345-1, CBI, Material Receiving Report, Rev. 0
 PO No. J132177-Westinghouse-SBOM-13-00345-1, CBI, SBOM Packing List number 13-
 00345-1, VC Summer EPC Unit 2, CBI, Rev. 0
 PO Number, WNA-WMO-13-00345-1, Westinghouse, Crate Packing List, date December 18,
 2013
 PO Number J132177-C601.02, Rev. 0, CBI, ASME Section III Pipe Spool Pieces, dated
 September 3, 2010
 Quality Release & Certificate of Conformance, PO Number, WNA-MWO-13-00345,
 Westinghouse, date 12/13/2013
 PO No. 4500266008, "Reactor Vessel PO", dated May 9, 2008
 Shipping Release for PO 132177-MS40.01, Air Cooled Radiator Units A & B
 Certificate of Compliance, Air Cooled Remote Radiator
 Shipping Release for PO 132177-MS40.01, Air Start Module
 Certificate of Compliance, Air Package
 MC717-APP-QAPD-152, QA Document Package-Air Start: VC Summer #3

Material Receiving Report, VS3-Z0S-MS-02-A, Air Start Module-Compressed Air Skid-Unit A
 IR No. 132177-MS40.01-405-004-DG002, Type "B" Inspection Report, Supplier QA Inspection
 for Diesel Generator Manufacturer Milton CAT
 SCE&G approved suppliers list, current as of September 15, 2014
 WEC approved suppliers list, current as of September 15, 2014
 CB&I approved suppliers list, current as of September 15, 2014
 VSG-MV01-Z5-003, Rev. 6, "Appendix 3 Technical Requirements for the AP1000 Reactor
 Vessel PO for the VC Summer Plant Project"
 IR Q445-13-0657, Shaw Nuclear QA Inspection Report for closure studs, dated 08/02/13
 MRR 132177-MRR-11767, dated 03/27/2014
 MRR 132177-MRR-15478, dated 07/23/2014

Specifications

APP-DAS-VQH-001, U.S. AP1000 Diverse Actuation System (DAS) Manufacturing Quality Plan,
 Rev. 0
 APP-RNS-M6-001, Rev. 10, "P&ID Normal RHR System"
 VS2-MV01-Z0R-101, Rev. 0, "VC Summer Unit 2 AP1000 Reactor Vessel ASME Code Design
 Report"
 APP-MV01-Z0-100, Rev. 1, "Fabrication Specification for AP1000 Reactor Vessel"
 APP-MV01-V6-404, Rev. 4, "AP1000 Reactor Vessel Studs, Nuts, and Washers"
 APP-MV01-Z0-101, Rev. 1, "AP1000 Reactor Vessel Design Specification"

ASME Data Report Documentation

Spool Piece VS2-RNS-PLW-17A-1 Form NPP-1, dated 04/10/2014
 Spool Piece VS2-PXS-PLW-664-2 Form NPP-1, dated 02/27/2014
 Spool Piece VS2-PXS-PLW-02Z-2 Form NPP-1, dated 06/05/2014
 Spool Piece VS2-PXS-PLW-02Z-2 Form N-5, dated 06/05/2014
 Form NPV-1 for valve serial number SF1205-1577, dated 07/18/2012
 QC Bending Report for spool piece VS2-RNS-PLW-17A-1
 CB&I liquid penetrant examination report or spool piece VS2-RNS-PLW-17A-1, Rev. 0
 CB&I liquid penetrant examination report or spool piece VS2-PXS-PLW-664-2, Rev. 0
 CB&I liquid penetrant examination report or spool piece VS2-PXS-PLW-02Z, Rev. 1
 Spool Piece VS2-RNS-PLW-090-4, Data package including drawings, sketches, certificates of
 compliance, CMTRs, weld records, purchase records, test records welder certifications,
 inspection records
 Taylor Forge CMTR and dimensional verification for heat code NCOT-3, SN# 1-9, dated
 02/03/2012
 Sumitomo CMTR no. 0YYE5867R1, dated 12/09/2011
 Sumitomo CMTR No. 0YY05557R1, dated 12/09/2011
 Tectubi Raccordi Certificate of Conformance, CMTR, and NDE reports for material heat code
 45349
 Tubacex CMTR for material heat code 45349
 Tubacex CMTR for material heat code 44009
 Thyssen Krupp CMTR for material heat code 45349
 Weldstar CoC and CMTR for weld wire heat code no. 743009, lot no. AT9686
 Weldstar CoC and CMTR for weld wire heat code no. 743009, lot no. CT9686
 Weldstar CoC and CMTR for weld wire heat code no. 743515, lot no. DT9742
 Record No. 100967981-50-02, Dimensional Inspection Record, Closure Studs
 Tabulation of Material, Reactor Vessel Spare Parts, dated 5/10/13
 Doosan Heavy Industries Certificate of Conformance, CMTR, and NDE reports for closure studs
 VS2-MV01-VQQ-001, Rev. 1, WEC Quality Data Package for Closure Studs, dated 4/22/14

Sumitono CoC, CMTR, and NDE reports for material heat code F12A044
 MEGA CMTR, dimensional verification, and CoC for material heat code 318071, dated
 04/13/2012
 MEGA CMTR no. CMTR-96703-11 for material heat code N044, dated 04/18/2012
 MEGA CMTR no. CMTR-96763-3 for material heat code N057, dated 09/27/2012
 MEGA test certificate no. 585593 for material heat code N057, dated 04/11/2012
 MEGA test certificate no. 584488 for material heat code 315440, dated 04/11/2012
 Sorbit CMTR no.692 for material heat no. N044, dated 02/13/2012
 Sorbit CMTR no.693 for material heat no. N057, dated 02/13/2012
 Olara CMTR no. 84755 for heat no. 318071, dated 07/08/2011
 Olara CMTR no. 80979 for heat no. 315440, dated 06/03/2011
 Material Receiving Report for pipe spool VS-RNS-PLW-090-4

Drawings

Shop fabrication sketch and weld traveler 892300-40-00088, Spool Piece VS2-RNS-PLW-17A,
 Sh. 1 of 1, Rev. 2
 Shop fabrication sketch and weld traveler 892400-40-00493, Spool Piece VS2-PXS-PLW-664,
 Sh. 1 of 1, Rev. 0
 Shop fabrication sketch and weld traveler 892300-40-00819, Spool Piece VS2-PXS-PLW-02Z,
 Sh. 1 of 2, Rev. 1
 Shop fabrication sketch 892300-40-00819, Spool Piece VS2-PXS-PLW-02Z, Sh. 2 of 2, Rev. 1
 APP-PXS-PLW-02Z, Rev. 1, Isometric Passive Core Cooling Room 11207
 APP-PXS-M6-002, Rev. 12, P&ID Passive Core Cooling System
 APP-PXS-PLW-664, Rev. 5, Isometric Passive Core Cooling Room 11300

E&DCRs

E&DCR No. APP-DAS-GEF-009, Updates to AP1000 Design Documents for DAS Panel Switch
 Nomenclature, Rev. 0
 E&DCR APP-PXS-GEF-850039, Rev. 0, "APP-PXS-PLW-02Z Conditioning"
 E&DCR APP-PXS-GEF-124, Rev. 0, "Correction of Squib Valve Transition Piece Dimensions"
 E&DCR APP-PXS-GEF-850142, Rev. 0, "APP-PXS-PLW-664 Conditioning"

Miscellaneous

MRR # 132177-MRR-10023, CBI, DAS Processor Cabinets, Rev. 0
 Receipt Inspection Record, V.C Summer Unit 2 AP1000 DAS, Part number 10058D44G01 N,
 dated 10/8/13
 Final Inspection Record, V.C Summer Unit 2 Diverse Actuation System, Part number
 10058D44G01 N, dated 12/3/13, Westinghouse Manufacturing Work Order, WNA-MWO-13-
 00345, Rev. 1
 AP1000 Consortium Receipt Activity Checklist, PO Number, WNA-MWO-13-00345, dated;
 12/20/2012
 MC037-APP-QAD-011, Starting Air Package Welding Procedure Specification
 MC033-APP-QAD-007, Starting Air Package Paint Procedure Specification
 MC217-APP-QAD-018, Remote Radiator Fuel Cooler Weld Procedure
 Quality Assurance Manual Review – QA Category Safety Significant (D-RAP & RTNSS) for
 Milton CAT Power Systems Division
 Drawings
 VS2-DAS-J8Y-001, V.C. Summer Unit 2 AP1000 Diverse Actuation System Cabinet
 Configuration Drawing Package, Rev. 0
 Drawing 278B-WM, Weld Map Details, Smithco Engineering Company, Remote Radiator Weld
 Map

E&DCRs

E&DCR No. APP-DAS-GEF-011, APP-DAS-J0M-001 Update to Section 6.2.1.10 (Squib Valve Blasting Device), Rev. 0

E&DCR No. APP-DAS-GEF-012, APP-DAS-J0M-001 Updates to Section 5 (Testing), Rev. 0

E&DCR No. APP-DAS-GEF-014, Addition of Caution to APP-DAS-J0M-001 Regarding Potential Effects of Shock to DAS Time Delay Dropout Relays, Rev. 0

CBI Nuclear, MRR 132177-MRR-10023, DAS processor cabinet, dated 1/17/14

Selected individual records of auditor qualification

CB&I quality assurance lead auditor/auditor certification list, current as of September 15, 2014

SCE&G quality assurance lead auditor/auditor certification list, current as of September 15, 2014

VCS Document No. 132177-300-304-002-00001, Procurement/Construction Holds, dated 7/15/14

CB&I quality rating list dated 08/01/14

WEC approved suppliers list, current as of September 15, 2014

CB&I approved suppliers list, current as of September 15, 2014

SCE&G approved suppliers list, current as of September 15, 2014

Shop traveler for spool piece VS2-RNS-PLW-17A, dated 2/5/2013

WES-2006-053, Supplier Audit/Evaluation Summary for Doosan Heavy Industries, dated 3/10/2006

APP-PV02-VMM-001, PV02 manual Valve Operation and Maintenance Manual, Rev. 5

WEC 7.1, Supplier QA Program Qualification and Assessment, Rev. 7.0

WEC 7.5, Control of Purchased Items and Services, Rev. 5.1

WEC 7.13, Receipt Inspection, Rev. 0.0

LIST OF ACRONYMS

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| ADAMS | Agencywide Documents Access & Management System |
| AP1000 | Advanced Passive Pressurized Water Reactors |
| ASL | Approved Suppliers List |
| ASME | American Society of Mechanical Engineers |
| CB&I | Chicago Bridge and Iron |
| CFR | Code of Federal Regulations |
| COL | Combined License |
| N&D | Non Conformance & Disposition Report |
| NND | New Nuclear Development |
| NRC | Nuclear Regulatory Commission |
| PARS | Publicly Available Records |
| QA | Quality Assurance |
| WEC | Westinghouse Electric Company, LLC |