

Part B Items (Onsite) - NRC Information Request (3/31/16) - IP 71111.08- Byron U2 – Documents Selected for Onsite Review.

Please provide a hard copy of the documents below to the Bryon Resident Inspector's Office on or before 10:00 am on April 18, 2016. Additionally, provide the remainder of information identified in Section B of the NRC information request letter dated November 19, 2015. Please direct questions on this request to the lead inspector Mel Holmberg at msh@nrc.gov or 630-829-9748.

1) ITEM B.1 – See detailed list of information needed in the NRC information request letter- Welds Selected for review

The following Code Class welding scheduled for the current Unit 2 outage.

Work Order	Description/Topic	Supporting Docs
0149247801	Replace S/G Bowl Drain (2D) (2RC01BD) – Cls 1	As stated in Item B.1 of request letter
0138700001	Rebuild Actuator/Valve Internals (2SD054H)- Cls 3	As stated in Item B.1 of request letter

The following Code Class welds completed during prior Unit 2 outage

Work Order	Description/Topic	Supporting Docs
01634753	Install nozzle check valves (AF system – Cls 2)	As stated in Item B.1 of request letter

2) ITEM B.2 of NRC information request letter- ISI related corrective actions

AR/IR Number	Description/Topic	Supporting Docs
01622269	Undersized Fillet Welds	Copy of AR and all CAs and applicable evaluations
02389459	ISI Surface Indication 2MS01AA-30.25" Welded Attachment E-2	Copy of AR and all CAs and applicable evaluations including applicable NDE reports.
02391224	UNIT-2 Containment Moisture Barrier Degraded	Copy of AR and all CAs and applicable evaluations including applicable NDE reports.
02394500	B2R18 ISI Exam Coverage Less Than 90%	Copy of AR and all CAs and applicable evaluations including applicable NDE reports.
02396331	Low Wall Thickness Reading on SX - Scope Expansion for B2R19	Copy of AR and all CAs and applicable evaluations including applicable NDE reports.
02408385	Low UT-T Reading on 0SX01AA-48 Prompts EOC During B2R19	Copy of AR and all CAs and applicable evaluations including applicable NDE reports.
02431695	SX Piping Leak: 0SX02D-30" U-0 CC HX SX Outlet Piping	Copy of AR and all CAs and applicable evaluations.
02443497	Additional Repairs Required on DG JW Cooler	Copy of AR and all CAs and applicable evaluations.

02446591	SX Piping Min Wall <87.5%	Copy of AR and all CAs and applicable evaluations.
02504215	BYRON ISI/CISI Health Report Yellow for 1T15	Copy of AR and all CAs and applicable evaluations including all 2015 ISI Program health reports.
02550642	Successive Inspections Needed on Containment Liner in B1R20	Copy of AR and all CAs and applicable evaluations including applicable NDE reports.
02561334	Reduction in Liner Plate Thickness	Copy of AR and all CAs and applicable evaluations.
02393568	Foreign Objects Found in 2A SG Secondary Side. B2R18	Copy of AR and all CAs and applicable evaluations including the current operational assessment and condition monitoring assessments for the Unit 2 SGs.
02393581	Foreign Objects Found in 2C SG Secondary Side. B2R18	Copy of AR and all CAs and applicable evaluations.
02393594	Foreign Objects Found in 2D SG Secondary Side. B2R18	Copy of AR and all CAs and applicable evaluations.
02426571	End of Cycle Report For B2C18	Copy of AR and all CAs and the end of cycle report.
02449850	B&W SG Tube/Tubesheet Weld ASME Section III Code Compliance	Copy of AR and all CAs and applicable evaluations.
02477078	B&W SG Tube/Tubesheet Weld ASME Section III Code Compliance	Copy of AR and all CAs and applicable evaluations.
02494393	B&W SG Tube/Tubesheet Weld ASME Section III Code Compliance	Copy of AR and all CAs and applicable evaluations.

3) Item B.3- Relevant Indications

Component	Exam Reports	Supporting docs
2MS01AA-30.25/E-2 (Code item C3.20- Piping welded attach)	Provide the B2R18 exam reports for this component including: B2R18-MT-001 B2R18-PT-001 B2R18-PT-003 And VT-3 examination report documented in WO 01637639	Provide IR 02389459, EC 399643, ISO drawing and weld construction drawings. Also provide prior NDE reports for this weld (e.g. from B2R10 and B2R06).

4) Vendor Procedures (AREVA) for Reactor Vessel Head Penetration Examination

1. 54-ISI-460 - Multi-Frequency Eddy Current Examination of Nozzle Welds and Regions

2. 54-ISI-494 - Multi-Frequency Eddy Current Array Probe Examination of Vent Line and RVLIS Nozzle Bores
3. 54-ISI-603 - Automated Ultrasonic Examination of RPV Closure Head Penetrations Containing Thermal Sleeves
4. 54-ISI-604 - Automated Ultrasonic Examination of Open Tube RPV Closure Head Penetrations

5) Vendor Procedures (Wesdyne) for NDE

1. EXE-ISI-210 - Manual Ultrasonic Examination of Vessel Welds
2. EXE-PDI-UT-1 - Ultrasonic Examination of Ferritic Pipe Welds in Accordance with PDI-UT-1
3. EXE-PDI-UT-2 - Ultrasonic Examination of Austenitic Piping Welds in Accordance with PDI-UT-2
4. EXE-PDI-UT-3 - Ultrasonic Through Wall Sizing of Flaws in Pipe Welds in Accordance with PDI-UT-3
5. EXE-PDI-UT-5 - Straight Beam Ultrasonic Examination of Bolts and Studs in Accordance with PDI-UT-5
6. EXE-PDI-UT-108 - Ultrasonic Examination of Weld Overlaid Similar and Dissimilar Welds in Accordance with PDI-UT-8
7. EXE-UT-74 - Ultrasonic Examination of Unit 1 Replacement Steam Generator Primary Manway Studs at Byron and Braidwood
8. EXE-UT-350 - Procedure for Acquiring Material Thickness and Weld Contours
9. WDI-SSP-1194 - Ultrasonic Examination of Reactor Pressure Vessel Welds in Accordance with PDI-UT-6
10. WDI-SSP-1292 - Manual Ultrasonic Through Wall and Length Sizing of Ultrasonic Indications in Reactor Pressure Vessel Welds in Accordance with PDI-UT-7

6) Schedule for bare metal visual examination of the Unit 2 reactor vessel head and site point of contact for this activity.

7) Documents needed to support review of Reactor Vessel Head Penetration Peening (IP 71111.18).

1. Schedule for onsite peening mockup demonstrations (if any).
2. Points of contact (numbers and names of site and vendor staff for the head peening project).
3. Design Change Package for Unit 2 Head Peening (e.g. EC 400682) and supporting vendor analysis/reports including results of vendor mockup tests that confirm no detrimental effect on detection of flaws following peening (e.g. AREVA Report 150-8086004 - Special Process Qualification Report).
4. Work order(s) implementing the head peening activities.
5. Vendor/site procedures that implement the peening process.
6. Documentation of the qualification of the peening process as a "special process" under Appendix B Criterion IX.