

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

March 29, 2013

Mr. Joseph W. Shea Vice President, Nuclear Licensing Tennessee Valley Authority 1101 Market Street, LP 3D-C Chattanooga, TN 37402-2801

SUBJECT: INSPECTION PROCEDURE 95003 SECOND REQUEST FOR INFORMATION

Dear Mr. Shea:

The purpose of this letter is to request additional information to support the upcoming 95003 inspection. The inspection will be conducted in accordance with Inspection Procedure 95003, "Supplemental Inspection for Repetitive Degraded Cornerstones, Multiple Degraded Cornerstones, Multiple Yellow Inputs, or One Red Input."

The current schedule is for the onsite inspection to be completed May 13 to 24, 2013, at Browns Ferry.

Per previous discussions with your staff, you are requested to post the requested documentation on the IMS website in the same manner as the initial request. This documentation will be available for each team member to review and download if necessary. We would appreciate it if the electronic version of this information was made available as soon as practical, but no later than April 19, 2013. We recognize that there may be some items in this request that you may have provided in the original request, if that is the case please refer to its location in the initial request. Your cooperation and support during this inspection will be appreciated. If you have questions concerning this inspection please contact me at (630) 780-8781.

Sincerely,

/**RA**/

Richard A. Skokowski, Assistant Team Leader Special Project, Browns Ferry Division of Reactor Projects

Enclosure: As stated

Docket No.: 50-259 License No.: DPR-33 March 29, 2013

Mr. Joseph W. Shea Vice President, Nuclear Licensing Tennessee Valley Authority 1101 Market Street, LP 3D-C Chattanooga, TN 37402-2801

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ADAMS: X Yes ACCESSION NUMBER:____

X PUBLICLY AVAILABLE

NON-PUBLICLY AVAILABLE

□ SENSITIVE XNON-SENSITIVE
 □ SUNSI REVIEW COMPLETE □ FORM 665 ATTACHED

OFFICE	RII:DRP	RII:DRP					
SIGNATURE		Via email					
NAME	RSkokowski	EGuthrie					
DATE	3/ /2013	3/29/2013	3/ /2013	3/ /2013	3/ /2013	3/ /2013	3/ /2013
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY DOCUMENT NAME: G:\DRPII\BF RFI2 LETTER.DOCX

Inspection 95003 Second Documentation Request

For each of the following, provide an electronic copy on the IMS website. Requests for corrective action program documents should include data from the traditional sources (as well as systems outside the corrective action program (training deficiency lists, etc.))

Item Number	Requested Information	Requesting Inspector
	·	·
1	NPG-SPP-11.16, Individual Development Plans	Allen
2	NPG-SPP-11.17 Leadership Assessments	Allen
3	NPG-SPP-11.18 Deep Dive Program	Allen
4	NPG-SPP-11.19 New and Transitional Leadership Change Procedure	Allen
5	NPG-SPP-19.5 Conflict Resolution Process	Allen
6	2006 and 2009, 2011 SYNERGY survey results and the 2013 Synergy results when they become available	Keefe
7	Nuclear Safety Culture monitoring panel procedure and meeting minutes From the beginning (Every plant started implementing in 2011)	Keefe
8	Minutes for the small group meetings the Site VP had with the employees from 2010-present	Keefe
9	Any "pulsing" surveys 2010-present	Keefe
10	PERs associated with not following procedures 2012-2013	Keefe
11	Procedure usage procedure	Keefe
12	Any PERs associated with surveys, assessments, etc 2010-present	Keefe
13	Any common cause analyses 2010-present	Keefe
14	Procedures on awards/incentive programs	Keefe
15	Restart committee meeting minutes 2011-present	Keefe
16	Causal analysis of NRC allegations from summer 2012	Keefe
17	TVA organizational health survey from July 2012	Keefe
18	Documentation of analyses performed by the BFN safety culture team to follow up on the priority organizations from the 2011 INSCA	Keefe
19	All corrective actions associated with each of the 9 problem areas identified by the 2011 INSCA	Keefe
20	List of PERs classified as SCWE by PER screening committee in the past 6 months	Keefe
21	ECP self-assessments 2010-present	Keefe
22	ECP gap analysis	Keefe
23	ECP metrics	Keefe
24	PER 514964	Keefe
25	QA audits of ECP 2010-present	Keefe
26	GOES Assessment	Keefe
27	Adverse Action Procedure NPG-Spp-11.10	Keefe
28	Procedures BFN 95003-003, and 006	Keefe
29	SCWE communications/training materials	Keefe
30	INPO organizational effectiveness survey results from 2010 and 2012 (do not place on CETREC, please make available for on-site review)	Keefe
31	Training Assessment (as mentioned in the Safety Culture Presentation 3/21/13)	Keefe
32	Manager/supervisor self-assessment (as mentioned in the Safety Culture Presentation 3/21/13)	Keefe
33	Charters, procedures , and meeting minutes for all meetings for the following:	Keefe
	1. ACRB 2. ERCB 3. SCMP	
34	List of all meetings scheduled for May 13 to May 24, including meeting name time, location and purpose	Skokowski
35	List of all scheduled maintenance and testing activities for May 13 to May 24, for all units	Skokowski

36	A list of all CAPRs initiated since October 2010	Skokowski
37	List of system number to system name	Skokowski
38	Maximo user guide	Skokowski
39	List of longstanding nonconforming conditions	Skokowski
40	Margin management program procedure	Skokowski
41	Safety culture monitoring panel procedure and reports since October 2010	Skokowski
42	List of PAR failure codes	Skokowski
43	A list the QA classifications of your procedures or a means to determine procedure QA classification(safety –related or nonsafety-related)	Skokowski
44		Skokowski
44	The completed Actions Plans to date	Skokowski Skokowski
	Top ten margin list (tied to system health)	
46	List of Maintenance rule A1 systems and red system health systems	Skokowski
47	Copies of any SERs/PERs written as a result of our questions since the start of the	Skokowski
40	NRC's preparation for the 95003 Part 3 Inspection	Okalvavali
48	Copy of the R-E-A-D-E decision making tool, and any assessment of the effectiveness of this tool	Skokowski
49	Rework definition, and the CAP program documenting requirements for	Skokowski
	generating SERs/PERs for rework, and, if applicable the CAP program rework	
	trending code	
50	Update 1RFI-0067 for any issues reviewed since the first RFI response	Skokowski
51	Copies of all PERs associated with repetitive and/or rework maintenance over the	Even
	last three years	
52	All SRs initiated over the last three years for the SRVs, RHR SW and EECW	Even
	pumps and valves, and RHR HXs	
53	List of the corrective action backlog	Even
54	Copies of all operating experience (from NRC generic communications, fleet,	Even
	vendors, industry groups, etc.) items entered into the CAP over the last three years	
55	Root Causes and all associated PERs having to do with your review of the	Even
	Corrective Action Program generated in preparation for this inspection	
56	List of all issues entered into the ECP over last two years (all titles and	Even
	corresponding PERs, if PERs exists)	
57	Copies of ECP self-assessments from 2010 to 2013	Even
58	Copies of CAP self-assessments from 2010 to 2013	Even
59	Copies of all operating experience items that screened out of your process in the	Even
	last three years	
60	Provide information necessary to validate functionality of equipment required for	Bernhard
	the mitigation strategy in the SSIs for the primary water path that includes an RHR	
	pump, the valves required to get water to the suction of the pump, and to the	
	vessel, and the MSRVs. The validation should include the instrumentation,	
	controls, and power to the components, and proof that they are routed in a manner	
	that they, or their support equipment are not impacted by fire, or from hot shorts.	
61	Self-assessments - BFN-ENG-S-11-012	Bernhard
62	Copies of Corporate Maintenance Procedures	Moore
63	All Performance Indicators Related to Maintenance for the last 5 years	Moore
63	All Performance Indicators Related to Equipment Reliability for the last 5 years	Moore
64	All Maintenance Program Documents, including:	Moore
	1. Post Maintenance Testing (PMT) Procedures	
	2. Preventative Maintenance (PM) Procedures	
	3. Corrective Maintenance Procedures	
	 4. Predictive Maintenance Procedures 	

65	Copies of the following Maintenance Schedules:	Moore
	1. 26 week	
	2. 12 week	
	3. Current week	
	4. May 13th week	
	5. May 20th week	
66	List of Maintenance Meetings and Scheduled Meeting Times	Moore
67	Station Work Control Procedures	Moore
68	Corporate Work Control Procedures	Moore
69	List of Work Control Meetings and Scheduled Meeting Times	Moore
70	List of Open / Pending Post Maintenance Tests	Moore
71	All System P&ID's	Moore
72	General Area Drawing	Moore
73	Procedures Governing Vendor Manual Updates / Revisions	Moore
74	List of Vendor Manual Updates / Revisions Pending	Moore
75	Maintenance Worker Qualification Procedures / Training Requirements	Moore
76	Strategic Equipment Performance Indicators	Moore
77	All PM Deferral Program Procedures	Moore
78	Maintenance Rule Scoping Documents	Moore
79	Provide the following maintenance related information for the Unit 2 'C' Core Spray	Moore
80	 Completed PM Work Orders (WO) for the last 5 years Completed Corrective Maintenance WO's for the last 5 years Vender Manual Preventative Maintenance (PM) Tasks Completed PM Work Orders (WO) Open / Pending PM WO's All Completed PM Deferrals All Modification Packages System Health Reports for the last 5 years Maintenance Rule System Status for the last 5 years A List of Open and closed Corrective Action Requests (PER/SER) with a Short Description for the last 5 years All completed PMT's for the last 5 years Vibration Testing and Analysis for the last 5 years (if applicable) Provide the following maintenance related information for the Unit 2 'C' Core Spray 	Moore
	 Motor: Completed PM Work Orders (WO) for the last 5 years Completed Corrective Maintenance WO's for the last 5 years Vender Manual Preventative Maintenance (PM) Tasks Completed PM Work Orders (WO) Open / Pending PM WO's All Completed PM Deferrals All Modification Packages System Health Reports for the last 5 years Maintenance Rule System Status for the last 5 years 	

	 A List of Open and closed Corrective Action Requests (PER/SER) with a Short Description for the last 5 years All completed PMT's for the last 5 years Vibration Testing and Analysis for the last 5 years (if applicable) Lube Oil Testing and Analysis for the last 5 years (if applicable) 	
81	Provide the following maintenance related information for the Unit 2 'C' Core Spray Motor Breaker:	Moore
	 Completed PM Work Orders (WO) for the last 5 years Completed Corrective Maintenance WO's for the last 5 years Vender Manual Preventative Maintenance (PM) Tasks Completed PM Work Orders (WO) Open / Pending PM WO's All Completed PM Deferrals All Modification Packages System Health Reports for the last 5 years Maintenance Rule System Status for the last 5 years A List of Open and closed Corrective Action Requests (PER/SER) with a Short Description for the last 5 years All completed PMT's for the last 5 years 	
	13. Vibration Testing and Analysis for the last 5 years (if applicable)	
82	14. Lube Oil Testing and Analysis for the last 5 years (if applicable) Provide the following maintenance related information for the Unit 3 'B' Residual Heat Removal Pump:	Moore
82	 Completed PM Work Orders (WO) for the last 5 years Completed Corrective Maintenance WO's for the last 5 years Vender Manual Preventative Maintenance (PM) Tasks Completed PM Work Orders (WO) Open / Pending PM WO's All Completed PM Deferrals All Modification Packages System Health Reports for the last 5 years Maintenance Rule System Status for the last 5 years A List of Open and closed Corrective Action Requests (PER/SER) with a Short Description for the last 5 years All completed PMT's for the last 5 years Vibration Testing and Analysis for the last 5 years (if applicable) Lube Oil Testing and Analysis for the last 5 years (if applicable) 	Mooro
83	Provide the following maintenance related information for the Unit 3 'B' Residual Heat Removal Motor:	Moore
	 Completed PM Work Orders (WO) for the last 5 years Completed Corrective Maintenance WO's for the last 5 years Vender Manual Preventative Maintenance (PM) Tasks Completed PM Work Orders (WO) Open / Pending PM WO's 	

	7. All Completed PM Deferrals	
	8. All Modification Packages	
	9. System Health Reports for the last 5 years	
	10. Maintenance Rule System Status for the last 5 years	
	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	
	13. Vibration Testing and Analysis for the last 5 years (if applicable)	
	14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	
84	Provide the following maintenance related information for the Unit 3 'B' Residual	Moore
	Heat Removal Motor Breaker:	
	1. Completed PM Work Orders (WO) for the last 5 years	
	 Completed Corrective Maintenance WO's for the last 5 years Vender Manual 	
	4. Preventative Maintenance (PM) Tasks	
	5. Completed PM Work Orders (WO)	
	6. Open / Pending PM WO's	
	7. All Completed PM Deferrals	
	8. All Modification Packages	
	System Health Reports for the last 5 years	
	10. Maintenance Rule System Status for the last 5 years	
	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	
	 13. Vibration Testing and Analysis for the last 5 years (if applicable) 14. Lube Oil Testing and Analysis for the last 5 years (if applicable) 	
85	Provide the following maintenance related information for the '2B' Residual Heat	Moore
00	Removal Service Water Pump:	Moore
	 Completed PM Work Orders (WO) for the last 5 years 	
	Completed Corrective Maintenance WO's for the last 5 years	
	3. Vender Manual	
	4. Preventative Maintenance (PM) Tasks	
	5. Completed PM Work Orders (WO)	
	 Open / Pending PM WO's All Completed PM Deferrals 	
	8. All Modification Packages	
	9. System Health Reports for the last 5 years	
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	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	
	13. Vibration Testing and Analysis for the last 5 years (if applicable)	
96	14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	Magra
86	Provide the following maintenance related information for the '2B' Residual Heat Removal Service Water Motor:	Moore
	1. Completed PM Work Orders (WO) for the last 5 years	
	2. Completed Corrective Maintenance WO's for the last 5 years	
	3. Vender Manual	
	4. Preventative Maintenance (PM) Tasks	

	5. Completed PM Work Orders (WO)	
	6. Open / Pending PM WO's	
	7. All Completed PM Deferrals	
	8. All Modification Packages	
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	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	
	13. Vibration Testing and Analysis for the last 5 years (if applicable)	
	14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	
87	Provide the following maintenance related information for the '2B' Residual Heat	Moore
	Removal Service Water Motor Breaker:	
	 Completed PM Work Orders (WO) for the last 5 years 	
	2. Completed Corrective Maintenance WO's for the last 5 years	
	3. Vender Manual	
	4. Preventative Maintenance (PM) Tasks	
	5. Completed PM Work Orders (WO)	
	6. Open / Pending PM WO's	
	7. All Completed PM Deferrals	
	8. All Modification Packages	
	9. System Health Reports for the last 5 years	
	10. Maintenance Rule System Status for the last 5 years	
	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	
	13. Vibration Testing and Analysis for the last 5 years (if applicable)	
	14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	
88	Provide the following maintenance related information for the CSS Injection Line	Moore
	Check Valve [Testable Check Valve Loop 1] – BFN-2-CKV-075-0026:	
	1. Completed PM Work Orders (WO) for the last 5 years	
	2. Completed Corrective Maintenance WO's for the last 5 years	
	3. Vender Manual	
	4. Preventative Maintenance (PM) Tasks	
	5. Completed PM Work Orders (WO)	
	6. Open / Pending PM WO's	
	7. All Completed PM Deferrals	
	8. All Modification Packages	
	9. System Health Reports for the last 5 years	
	10. Maintenance Rule System Status for the last 5 years	
	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	
	13. Vibration Testing and Analysis for the last 5 years (if applicable)	
	14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	
89	Provide the following maintenance related information for the CSS Injection Line	Moore
03	Check Valve [Testable Check Valve Loop 1] actuator:	WOOLG
	1. Completed PM Work Orders (WO) for the last 5 years	
	Completed Corrective Maintenance WO's for the last 5 years	

	3. Vender Manual	
	4. Preventative Maintenance (PM) Tasks	
	5. Completed PM Work Orders (WO)	
	6. Open / Pending PM WO's	
	7. All Completed PM Deferrals	
	8. All Modification Packages	
	System Health Reports for the last 5 years	
	10. Maintenance Rule System Status for the last 5 years	
	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	
	13. Vibration Testing and Analysis for the last 5 years (if applicable)	
	14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	
90	Provide the following maintenance related information for the CSS Injection Line	Moore
	Check Valve [Testable Check Valve Loop 1] actuator circuit breaker:	
	1. Completed PM Work Orders (WO) for the last 5 years	
	 Completed Fin Work Orders (WO) for the last 5 years Completed Corrective Maintenance WO's for the last 5 years 	
	3. Vender Manual	
	4. Preventative Maintenance (PM) Tasks	
	5. Completed PM Work Orders (WO)	
	6. Open / Pending PM WO's	
	7. All Completed PM Deferrals	
	8. All Modification Packages	
	9. System Health Reports for the last 5 years	
	10. Maintenance Rule System Status for the last 5 years	
	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	
	13. Vibration Testing and Analysis for the last 5 years (if applicable)	
	14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	
91	Provide the following maintenance related information for the 'C' CSS Pump	Moore
	Suction Valve [CS Pump 2C Suc Vlv] – BFN- 2-FCV-75-0011:	
	 Completed PM Work Orders (WO) for the last 5 years 	
	2. Completed Corrective Maintenance WO's for the last 5 years	
	3. Vender Manual	
	4. Preventative Maintenance (PM) Tasks	
	5. Completed PM Work Orders (WO)	
	6. Open / Pending PM WO's	
	7. All Completed PM Deferrals	
	8. All Modification Packages	
	9. System Health Reports for the last 5 years	
	10. Maintenance Rule System Status for the last 5 years	
	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	
	13. Vibration Testing and Analysis for the last 5 years (if applicable)	
	14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	

92	Provide the following maintenance related information for the 'C' CSS Pump Suction Valve [CS Pump 2C Suc VIv] actuator:	Moore
	 Completed PM Work Orders (WO) for the last 5 years Completed Corrective Maintenance WO's for the last 5 years Vender Manual Preventative Maintenance (PM) Tasks Completed PM Work Orders (WO) 	
	 Open / Pending PM WO's All Completed PM Deferrals All Modification Packages System Health Reports for the last 5 years Maintenance Rule System Status for the last 5 years 	
	 11. A List of Open and closed Corrective Action Requests (PER/SER) with a Short Description for the last 5 years 12. All completed PMT's for the last 5 years 13. Vibration Testing and Analysis for the last 5 years (if applicable) 14. Lube Oil Testing and Analysis for the last 5 years (if applicable) 	
93	Provide the following maintenance related information for the 'C' CSS Pump Suction Valve [CS Pump 2C Suc VIv] actuator circuit breaker:	Moore
	 Completed PM Work Orders (WO) for the last 5 years Completed Corrective Maintenance WO's for the last 5 years Vender Manual Preventative Maintenance (PM) Tasks Completed PM Work Orders (WO) Completed PM Work Orders (WO) 	
	 Open / Pending PM WO's All Completed PM Deferrals All Modification Packages System Health Reports for the last 5 years Maintenance Rule System Status for the last 5 years A List of Open and closed Corrective Action Requests (PER/SER) with a 	
	Short Description for the last 5 years 12. All completed PMT's for the last 5 years 13. Vibration Testing and Analysis for the last 5 years (if applicable) 14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	
94	Provide the following maintenance related information for the CSS Injection Line Inboard CIV [CS Sys 1 Inb Disch VIv] – BFN-2-FCV-75-0025:	Moore
	 Completed PM Work Orders (WO) for the last 5 years Completed Corrective Maintenance WO's for the last 5 years Vender Manual Deventering Maintenance (DM) Tables 	
	 4. Preventative Maintenance (PM) Tasks 5. Completed PM Work Orders (WO) 6. Open / Pending PM WO's 7. All Completed PM Deferrals 	
	 All Modification Packages System Health Reports for the last 5 years Maintenance Rule System Status for the last 5 years A List of Open and closed Corrective Action Requests (PER/SER) with a Short Description for the last 5 years 	
	12. All completed PMT's for the last 5 years	

	13. Vibration Testing and Analysis for the last 5 years (if applicable)	1
	14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	
95	Provide the following maintenance related information for the CSS Injection Line Inboard CIV [CS Sys 1 Inb Disch VIv] actuator:	Moore
	1. Completed PM Work Orders (WO) for the last 5 years	
	Completed Corrective Maintenance WO's for the last 5 years	
	3. Vender Manual	
	4. Preventative Maintenance (PM) Tasks	
	5. Completed PM Work Orders (WO)	
	 Open / Pending PM WO's All Completed PM Deferrals 	
	8. All Modification Packages	
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	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	
	13. Vibration Testing and Analysis for the last 5 years (if applicable)	
	14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	
96	Provide the following maintenance related information for the CSS Injection Line	Moore
	Inboard CIV [CS Sys 1 Inb Disch VIv] actuator circuit breaker:	
	1. Completed PM Work Orders (WO) for the last 5 years	
	2. Completed Corrective Maintenance WO's for the last 5 years	
	3. Vender Manual	
	4. Preventative Maintenance (PM) Tasks	
	 Completed PM Work Orders (WO) Open / Pending PM WO's 	
	7. All Completed PM Deferrals	
	8. All Modification Packages	
	9. System Health Reports for the last 5 years	
	10. Maintenance Rule System Status for the last 5 years	
	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	 All completed PMT's for the last 5 years Vibration Testing and Analysis for the last 5 years (if applicable) 	
	14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	
97	Provide the following maintenance related information for the 'B' RHR Pump	Moore
	Suction MOV for Suppression Pool – BFN-3-FCV-074-0024:	
	1. Completed PM Work Orders (WO) for the last 5 years	
	2. Completed Corrective Maintenance WO's for the last 5 years	
	3. Vender Manual	
	4. Preventative Maintenance (PM) Tasks	
	 Completed PM Work Orders (WO) Open / Pending PM WO's 	
	7. All Completed PM Deferrals	
		1
	•	
	 All Modification Packages System Health Reports for the last 5 years 	

	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	
	13. Vibration Testing and Analysis for the last 5 years (if applicable)	
	14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	
98	Provide the following maintenance related information for the 'B' RHR Pump	Moore
	Suction MOV for Suppression Pool valve actuator:	
	 Completed PM Work Orders (WO) for the last 5 years 	
	Completed Corrective Maintenance WO's for the last 5 years	
	3. Vender Manual	
	Preventative Maintenance (PM) Tasks	
	5. Completed PM Work Orders (WO)	
	6. Open / Pending PM WO's	
	7. All Completed PM Deferrals	
	8. All Modification Packages	
	System Health Reports for the last 5 years	
	10. Maintenance Rule System Status for the last 5 years	
	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	
	13. Vibration Testing and Analysis for the last 5 years (if applicable)	
	14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	
99	Provide the following maintenance related information for the 'B' RHR Pump	Moore
33	Suction MOV for Suppression Pool valve actuator circuit breaker:	WOOLE
	1. Completed PM Work Orders (WO) for the last 5 years	
	 Completed Fin Work Orders (WO) for the last 5 years Completed Corrective Maintenance WO's for the last 5 years 	
	3. Vender Manual	
	4. Preventative Maintenance (PM) Tasks	
	5. Completed PM Work Orders (WO)	
	6. Open / Pending PM WO's	
	7. All Completed PM Deferrals	
	8. All Modification Packages	
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	10. Maintenance Rule System Status for the last 5 years	
	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	
	13. Vibration Testing and Analysis for the last 5 years (if applicable)	
	14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	
100	Provide the following maintenance related information for the RHR, Loop 2, LPCI	Moore
	Injection Testable Check Valve – BFN-3-CKV-074-006:	
	1. Completed PM Work Orders (WO) for the last 5 years	
	2. Completed Corrective Maintenance WO's for the last 5 years	
	3. Vender Manual	
1	4. Preventative Maintenance (PM) Tasks	
	5. Completed PM Work Orders (WO)	
	6. Open / Pending PM WO's	
	7. All Completed PM Deferrals	
	8. All Modification Packages	

	System Health Reports for the last 5 years	
	10. Maintenance Rule System Status for the last 5 years	
	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	
	13. Vibration Testing and Analysis for the last 5 years (if applicable)	
	14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	
101	Provide the following maintenance related information for the RHR, Loop 2, LPCI	Moore
	Injection Testable Check Valve actuator:	
	1. Completed PM Work Orders (WO) for the last 5 years	
	2. Completed Corrective Maintenance WO's for the last 5 years	
	3. Vender Manual	
	4. Preventative Maintenance (PM) Tasks	
	5. Completed PM Work Orders (WO)	
1	6. Open / Pending PM WO's	
	7. All Completed PM Deferrals	
	8. All Modification Packages	
1	9. System Health Reports for the last 5 years	
	10. Maintenance Rule System Status for the last 5 years	
	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	
	13. Vibration Testing and Analysis for the last 5 years (if applicable)	
	14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	
102	Provide the following maintenance related information for the RHR, Loop 2, LPCI	Moore
102	Injection Testable Check Valve actuator circuit breaker:	NICOLE
	1. Completed PM Work Orders (WO) for the last 5 years	
	2. Completed Corrective Maintenance WO's for the last 5 years	
	3. Vender Manual	
	4. Preventative Maintenance (PM) Tasks	
1	5. Completed PM Work Orders (WO)	
	6. Open / Pending PM WO's	
	7. All Completed PM Deferrals	
	8. All Modification Packages	
1	9. System Health Reports for the last 5 years	
1	10. Maintenance Rule System Status for the last 5 years	
	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
1	12. All completed PMT's for the last 5 years	
	13. Vibration Testing and Analysis for the last 5 years (if applicable)	
	14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	
103	Provide the following maintenance related information for the RHR LPCI Discharge	Moore
1	Header Train Cross connect valve from Unit 2,Loop 2, to Unit 3, Loop 1 – 2-FCV-	
	074-0101:	
	1. Completed PM Work Orders (WO) for the last 5 years	
1	2. Completed Corrective Maintenance WO's for the last 5 years	
	3. Vender Manual	
	4. Preventative Maintenance (PM) Tasks	
	5. Completed PM Work Orders (WO)	
	5. Completed PIVI Work Orders (WO)	

	6. Open / Pending PM WO's	
	7. All Completed PM Deferrals	
	8. All Modification Packages	
	System Health Reports for the last 5 years	
	10. Maintenance Rule System Status for the last 5 years	
	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	
	13. Vibration Testing and Analysis for the last 5 years (if applicable)	
10.1	14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	N.4
104	Provide the following maintenance related information for the RHR LPCI Discharge	Moore
	Header Train Cross connect valve from Unit 2,Loop 2, to Unit 3, Loop 1 actuator:	
	 Completed PM Work Orders (WO) for the last 5 years 	
	Completed Corrective Maintenance WO's for the last 5 years	
	3. Vender Manual	
	4. Preventative Maintenance (PM) Tasks	
	5. Completed PM Work Orders (WO)	
	6. Open / Pending PM WO's	
	7. All Completed PM Deferrals	
	8. All Modification Packages	
	9. System Health Reports for the last 5 years	
	10. Maintenance Rule System Status for the last 5 years	
	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	All completed PMT's for the last 5 years	
	Vibration Testing and Analysis for the last 5 years (if applicable)	
	Lube Oil Testing and Analysis for the last 5 years (if applicable)	
105	Provide the following maintenance related information for the RHR LPCI Discharge	Moore
	Header Train Cross connect valve from Unit 2,Loop 2, to Unit 3, Loop 1 actuator	
	circuit breaker:	
	1. Completed PM Work Orders (WO) for the last 5 years	
	 Completed Fin Work Orders (WO) for the last 5 years Completed Corrective Maintenance WO's for the last 5 years 	
	3. Vender Manual	
	4. Preventative Maintenance (PM) Tasks	
	5. Completed PM Work Orders (WO)	
	6. Open / Pending PM WO's	
	7. All Completed PM Deferrals	
	8. All Modification Packages	
	System Health Reports for the last 5 years	
	10. Maintenance Rule System Status for the last 5 years	
	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	
	13. Vibration Testing and Analysis for the last 5 years (if applicable)	
	14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	
106		Moore
106	Provide the following maintenance related information for 'B' RHR HX Outlet FCV-	Moore
	3-FCV-023-0046:	
	 Completed PM Work Orders (WO) for the last 5 years 	
	Completed Corrective Maintenance WO's for the last 5 years	
	3. Vender Manual	

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	4. Preventative Maintenance (PM) Tasks	
	5. Completed PM Work Orders (WO)	
	6. Open / Pending PM WO's	
	7. All Completed PM Deferrals	
	8. All Modification Packages	
	System Health Reports for the last 5 years	
	10. Maintenance Rule System Status for the last 5 years	
	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	
	13. Vibration Testing and Analysis for the last 5 years (if applicable)	
	Lube Oil Testing and Analysis for the last 5 years (if applicable)	
107	Provide the following maintenance related information for 'B' RHR HX Outlet FCV	Moore
	actuator:	
	 Completed PM Work Orders (WO) for the last 5 years 	
	Completed Corrective Maintenance WO's for the last 5 years	
	3. Vender Manual	
	4. Preventative Maintenance (PM) Tasks	
	5. Completed PM Work Orders (WO)	
	6. Open / Pending PM WO's	
	7. All Completed PM Deferrals	
	8. All Modification Packages	
	System Health Reports for the last 5 years	
	10. Maintenance Rule System Status for the last 5 years	
	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	
	13. Vibration Testing and Analysis for the last 5 years (if applicable)	
	Lube Oil Testing and Analysis for the last 5 years (if applicable)	
108	Provide the following maintenance related information for 'B' RHR HX Outlet FCV	Moore
	actuator circuit breaker:	
	 Completed PM Work Orders (WO) for the last 5 years 	
	Completed Corrective Maintenance WO's for the last 5 years	
	3. Vender Manual	
	Preventative Maintenance (PM) Tasks	
	5. Completed PM Work Orders (WO)	
	6. Open / Pending PM WO's	
	7. All Completed PM Deferrals	
	8. All Modification Packages	
	System Health Reports for the last 5 years	
	10. Maintenance Rule System Status for the last 5 years	
	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	
	13. Vibration Testing and Analysis for the last 5 years (if applicable)	
	14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	
109	Maintenance Schedules for the Four Red System Health Systems	Moore

110	Provide the following maintenance related information Unit 3 'B' RHR Pump Room Cooler – BFN- 3-CLR-064-0069:	Moore
	1. Completed PM Work Orders (WO) for the last 5 years	
	2. Completed Corrective Maintenance WO's for the last 5 years	
	3. Vender Manual	
	4. Preventative Maintenance (PM) Tasks	
	5. Completed PM Work Orders (WO)	
	6. Open / Pending PM WO's	
	7. All Completed PM Deferrals	
	8. All Modification Packages	
	9. System Health Reports for the last 5 years	
	10. Maintenance Rule System Status for the last 5 years	
	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	
	13. Vibration Testing and Analysis for the last 5 years (if applicable)	
	14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	
111	Provide the following maintenance related information for 0-STN-067-0926 –	Moore
	EECW Strainer associated with B EECW supply header:	MOOIC
	1. Completed PM Work Orders (WO) for the last 5 years	
	2. Completed Corrective Maintenance WO's for the last 5 years	
	3. Vender Manual	
	4. Preventative Maintenance (PM) Tasks	
	5. Completed PM Work Orders (WO)	
	6. Open / Pending PM WO's	
	7. All Completed PM Deferrals	
	8. All Modification Packages	
	9. System Health Reports for the last 5 years	
	 Maintenance Rule System Status for the last 5 years A List of Open and closed Corrective Action Requests (PER/SER) with a 	
	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	
	13. Vibration Testing and Analysis for the last 5 years (if applicable)	
	14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	
112	Provide the following maintenance related information for 3-CKV-067-0695 –	Moore
	South EECW Supply header check valve to 3A DG cooler :	
	1. Completed PM Work Orders (WO) for the last 5 years	
	2. Completed Corrective Maintenance WO's for the last 5 years	
	3. Vender Manual	
	4. Preventative Maintenance (PM) Tasks	
	 Completed PM Work Orders (WO) Open / Pending PM WO's 	
	7. All Completed PM Deferrals	
	8. All Modification Packages	
	9. System Health Reports for the last 5 years	
	10. Maintenance Rule System Status for the last 5 years	
	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	

	13. Vibration Testing and Analysis for the last 5 years (if applicable)	
	14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	
113	Provide the following maintenance related information for 3-CKV-067-0696 – South EECW Supply header back flow check valve to 3A DG cooler:	Moore
	1. Completed PM Work Orders (WO) for the last 5 years	
	2. Completed Corrective Maintenance WO's for the last 5 years	
	3. Vender Manual	
	4. Preventative Maintenance (PM) Tasks	
	5. Completed PM Work Orders (WO)	
	6. Open / Pending PM WO's	
	 All Completed PM Deferrals All Modification Packages 	
	9. System Health Reports for the last 5 years	
	10. Maintenance Rule System Status for the last 5 years	
	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	
	Vibration Testing and Analysis for the last 5 years (if applicable)	
	14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	
114	Provide the following maintenance related information for 3-CKV-067-0601 and 3-	Moore
	CKV-067-0600 – South EECW Supply header check valves to 3B RHR pump room seal cooler and RHR pump room cooler:	
	1. Completed PM Work Orders (WO) for the last 5 years	
	Completed Corrective Maintenance WO's for the last 5 years	
	3. Vender Manual	
	4. Preventative Maintenance (PM) Tasks	
	5. Completed PM Work Orders (WO)	
	 Open / Pending PM WO's All Completed PM Deferrals 	
	8. All Modification Packages	
	9. System Health Reports for the last 5 years	
	10. Maintenance Rule System Status for the last 5 years	
	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	
	13. Vibration Testing and Analysis for the last 5 years (if applicable)	
115	14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	Maara
115 116	Copies of Station Maintenance Procedures Provide the following maintenance related information for EDG 'A':	Moore Moore
110		WOOLE
	1. Completed PM Work Orders (WO) for the last 5 years	
	2. Completed Corrective Maintenance WO's for the last 5 years	
	3. Vender Manual	
	4. Preventative Maintenance (PM) Tasks	
	5. Completed PM Work Orders (WO)	
	6. Open / Pending PM WO's	
	7. All Completed PM Deferrals	
	 All Modification Packages System Health Paparts for the last 5 years 	
	 System Health Reports for the last 5 years Maintenance Rule System Status for the last 5 years 	

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	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	
	Vibration Testing and Analysis for the last 5 years (if applicable)	
	Lube Oil Testing and Analysis for the last 5 years (if applicable)	
117	Provide the following maintenance related information for Battery '2'	Moore
	 Completed PM Work Orders (WO) for the last 5 years 	
	Completed Corrective Maintenance WO's for the last 5 years	
	3. Vender Manual	
	Preventative Maintenance (PM) Tasks	
	5. Completed PM Work Orders (WO)	
	6. Open / Pending PM WO's	
	7. All Completed PM Deferrals	
	8. All Modification Packages	
	System Health Reports for the last 5 years	
	10. Maintenance Rule System Status for the last 5 years	
	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	
	13. Vibration Testing and Analysis for the last 5 years (if applicable)	
	14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	
118	Pr Provide the following maintenance related information for Battery Charger '2':	Moore
	1. Completed PM Work Orders (WO) for the last 5 years	
	2. Completed Corrective Maintenance WO's for the last 5 years	
	3. Vender Manual	
	4. Preventative Maintenance (PM) Tasks	
	5. Completed PM Work Orders (WO)	
	6. Open / Pending PM WO's	
	7. All Completed PM Deferrals	
	8. All Modification Packages	
	9. System Health Reports for the last 5 years	
	10. Maintenance Rule System Status for the last 5 years	
	11. A List of Open and closed Corrective Action Requests (PER/SER) with a	
	Short Description for the last 5 years	
	12. All completed PMT's for the last 5 years	
	13. Vibration Testing and Analysis for the last 5 years (if applicable)	
	Lube Oil Testing and Analysis for the last 5 years (if applicable)	
119	Provide the following maintenance related information for a safety-related	Moore
	Uninterruptable Power Supply:	
	· · · · ·	
	1. Completed PM Work Orders (WO) for the last 5 years	
	2. Completed Corrective Maintenance WO's for the last 5 years	
	3. Vender Manual	
	4. Preventative Maintenance (PM) Tasks	
	5. Completed PM Work Orders (WO)	
	6. Open / Pending PM WO's	
	7. All Completed PM Deferrals	
	8. All Modification Packages	
	9. System Health Reports for the last 5 years	
	10. Maintenance Rule System Status for the last 5 years	
L		L

	 A List of Open and closed Corrective Action Requests (PER/SER) with a Short Description for the last 5 years All completed PMT's for the last 5 years Vibration Testing and Analysis for the last 5 years (if applicable) Lube Oil Testing and Analysis for the last 5 years (if applicable) 	
120	Provide the following maintenance related information for control emergency ventilation:	Moore
	 Completed PM Work Orders (WO) for the last 5 years Completed Corrective Maintenance WO's for the last 5 years Vender Manual Preventative Maintenance (PM) Tasks Completed PM Work Orders (WO) Open / Pending PM WO's 	
	 Open / Fending FM WO's All Completed PM Deferrals All Modification Packages System Health Reports for the last 5 years Maintenance Rule System Status for the last 5 years A List of Open and closed Corrective Action Requests (PER/SER) with a 	
	Short Description for the last 5 years 12. All completed PMT's for the last 5 years 13. Vibration Testing and Analysis for the last 5 years (if applicable) 14. Lube Oil Testing and Analysis for the last 5 years (if applicable)	
121	 Provide the following maintenance related information for Unit 2 RCIC pump: Completed PM Work Orders (WO) for the last 5 years Completed Corrective Maintenance WO's for the last 5 years Vender Manual Preventative Maintenance (PM) Tasks Completed PM Work Orders (WO) Open / Pending PM WO's All Completed PM Deferrals All Modification Packages System Health Reports for the last 5 years Maintenance Rule System Status for the last 5 years A List of Open and closed Corrective Action Requests (PER/SER) with a Short Description for the last 5 years All completed PMT's for the last 5 years All completed PMT's for the last 5 years Vibration Testing and Analysis for the last 5 years (if applicable) Lube Oil Testing and Analysis for the last 5 years (if applicable) 	Moore
122	 Provide the following maintenance related information for Unit 2 HPIC turbine: Completed PM Work Orders (WO) for the last 5 years Completed Corrective Maintenance WO's for the last 5 years Vender Manual Preventative Maintenance (PM) Tasks Completed PM Work Orders (WO) Open / Pending PM WO's All Completed PM Deferrals 	Moore
	 All Modification Packages System Health Reports for the last 5 years 	

123	 Maintenance Rule System Status for the last 5 years A List of Open and closed Corrective Action Requests (PER/SER) with a Short Description for the last 5 years All completed PMT's for the last 5 years Vibration Testing and Analysis for the last 5 years (if applicable) Lube Oil Testing and Analysis for the last 5 years (if applicable) For EECW strainer 0-STN-067—926, provide the following: Vendor manual Drawings (electrical and mechanical) List of PMs, including periodicity and dates of the last three times the PM 	Mazzoni
124	 was performed Work packages for the last calibration and the last test of the instrumentation associated with the strainer auto-start feature Please provide the following PERs 	Norton
	 1. 143225 Diesel Generator outboard bearing vibration issues, identified 11/27/ 2007, due 12/31/2013 (Unit 1) 2. 379134 U3 HPCI elevated turbine casing temperature, identified 06/11/2011, due U3R16 (Unit 3) 3. 556063 3B recirc pump #2 seal, identified 05/25/2012, due U3R16 Unit 3 4. the PER on the recent IRM Scram 698289 Unclear direction on SSI reactor cool down rate 	
125	 Copies of the following items from the degraded equipment list: 1. 165288/503024 BFN compliance with exemptions for operator manual actions in III.G.2 Fire Areas/Zones (SRM BFN-009305/BFN-021144) NC 2. 384210 Debris and water present in A Train of SBGT (SRM BFN-017641) D 	Norton
126	Normal RHRSW alignment procedure	Ferrarini
127	 The following information associated with Unit 3 'B' Residual Heat Removal System Pump BFN-3-PMP-074-0028: Pump performance requirements/assumptions used to support Chapter 14 accident analysis (i.e., DBA LOCA) Purchase specifications including pump performance curves Most recent pump baseline performance curves Vendor manual Drawings Maintenance history List of modifications (i.e., material or design changes) and associated modification package and 50.59 screens/evaluations since original installation List of periodic surveillance test procedures Most recent quarterly and cyclic IST program pump surveillance tests (entire WO package) IST pump performance trend data since 1/1/08 	Ferrarini
	 Evaluation of any observed pump degradation observed during the last 5 years (if any) Seismic analysis/qualification Structural connections Latest system flow balance results The procedure for adjusting lift on vertical pumps Environmental qualification documentation 	

128	The following information associated with Unit 2 'C' Core Spray System Pump BFN-2-PMP-075-0014:	Ferrarini
	 Pump performance requirements/assumptions used to support Chapter 14 accident analysis (i.e., DBA LOCA) 	
	 Purchase specifications including pump performance curves Most recent pump baseline performance curves Vender manual 	
	 Vendor manual Drawings Maintenance history 	
	 List of modifications (i.e., material or design changes) and associated modification package and 50.59 screens/evaluations since original installation 	
	 8. List of periodic surveillance test procedures 9. Most recent quarterly and cyclic IST program pump surveillance tests (entire WO package) 	
	 IST pump performance trend data since 1/1/08 Evaluation of any observed pump degradation observed during the last 5 years (if any) 	
	 Seismic analysis/qualification Structural connections 	
	 Latest system flow balance results The procedure for adjusting lift on vertical pumps Environmental qualification documentation 	
129	The following information associated with the 2B Residual Heat Removal Service Water System Pump BFN-0-PMP-023-0019 :	Ferrarini
	 Pump performance requirements/assumptions used to support Chapter 14 accident analysis (i.e., DBA LOCA) 	
	 Purchase specifications including pump performance curves Most recent pump baseline performance curves Vendor manual 	
	 5. Drawings 6. Maintenance history 	
	 List of modifications (i.e., material or design changes) and associated modification package and 50.59 screens/evaluations since original installation 	
	 8. List of periodic surveillance test procedures 9. Most recent quarterly and cyclic IST program pump surveillance tests (entire WO package) 	
	10. IST pump performance trend data since 1/1/08 11. Evaluation of any observed pump degradation observed during the last 5	
	years (if any) 12. Seismic analysis/qualification 13. Structural connections	
	 Latest system flow balance results The procedure for adjusting lift on vertical pumps Environmental qualification documentation 	
130	The following information associated with the Unit 2 Core Spray Loop 1 testable check valve and associated actuator BFN-2-CKV-075-0026:	Ferrarini
	 Purchase specifications Weak link analysis 	

[2	Vendor manual	1
		Drawings	
		Maintenance history	
		List of modifications (i.e., material or design changes) and associated	
		modification package and 50.59 screens/evaluations since original	
		installation	
		List of periodic surveillance test procedures	
		Most recent completed surveillance test including LLRT, valve timing,	
		position verification, and actuator thrust/torque performance (entire WO	
		package)	
		Valve performance trend data since 1/1/08	
		Evaluation of any observed valve degradation observed during the last 5	
		years (if any)	
		Seismic analysis/qualification	
		Environmental qualification documentation	
10.1		MOV schematic control diagrams	
131		owing information associated with the Unit 2 Core Spray Pump 'C' suction	Ferrarini
	valve a	nd associated actuator BFN-2-FCV-075-0011:	
	1	Purchase specifications	
		Weak link analysis	
		Vendor manual	
		Drawings	
		Maintenance history	
		List of modifications (i.e., material or design changes) and associated	
		modification package and 50.59 screens/evaluations since original	
		installation	
		List of periodic surveillance test procedures	
		Most recent completed surveillance test including LLRT, valve timing,	
		position verification, and actuator thrust/torque performance (entire WO	
		package)	
		Valve performance trend data since 1/1/08	
		Evaluation of any observed valve degradation observed during the last 5	
1	10.	Liver and the served very degradation observed during the last of	
1			
		years (if any)	
	11.	years (if any) Seismic analysis/qualification	
	11. 12.	years (if any)	

132	The following information associated with the Unit 2 Core Spray System 1 inboard	Ferrarini
	discharge valve and associated actuator BFN-2-FCV-075-0025:	
	1. Purchase specifications	
	2. Weak link analysis	
	3. Vendor manual	
	4. Drawings	
	5. Maintenance history	
	 List of modifications (i.e., material or design changes) and associated modification package and 50.59 screens/evaluations since original installation 	
	7. List of periodic surveillance test procedures	
	 Most recent completed surveillance test including LLRT, valve timing, position verification, and actuator thrust/torque performance (entire WO package) 	
	9. Valve performance trend data since 1/1/08	
	 10. Evaluation of any observed valve degradation observed during the last 5 years (if any) 	
	11. Seismic analysis/qualification	
	12. Environmental gualification documentation	
	13. MOV schematic control diagrams	
133	The following information associated with the Unit 3 Residual Heat Removal Pump 'B' suction valve and associated actuator BFN-2-FCV-074-0024 :	Ferrarini
	1. Purchase specifications	
	2. Weak link analysis	
	3. Vendor manual	
	4. Drawings	
	5. Maintenance history	
	 List of modifications (i.e., material or design changes) and associated modification package and 50.59 screens/evaluations since original installation 	
	7. List of periodic surveillance test procedures	
	 Most recent completed surveillance test including LLRT, valve timing, position verification, and actuator thrust/torque performance (entire WO package) 	
	9. Valve performance trend data since 1/1/08	
	10. Evaluation of any observed valve degradation observed during the last 5	
	years (if any)	
	11. Seismic analysis/qualification	
	12. Environmental qualification documentation	
	13. MOV schematic control diagrams	

 2 testable check valve and associated actuator BFN-3-CKV-075-0068: 1. Purchase specifications 2. Weak link analysis 3. Vendor manual 4. Drawings 5. Maintenance history 	Ferrarini
 Weak link analysis Vendor manual Drawings Maintenance history 	
 Weak link analysis Vendor manual Drawings Maintenance history 	
3. Vendor manual4. Drawings5. Maintenance history	
 Drawings Maintenance history 	
5. Maintenance history	
 List of modifications (i.e., material or design changes) and associated modification package and 50.59 screens/evaluations since original installation 	
7. List of periodic surveillance test procedures	
8. Most recent completed surveillance test including LLRT, valve timing,	
position verification, and actuator thrust/torque performance (entire WO	
package)	
9. Valve performance trend data since 1/1/08	
10. Evaluation of any observed valve degradation observed during the last 5	
years (if any)	
11. Seismic analysis/qualification	
12. Environmental qualification documentation	
13. MOV schematic control diagrams	
5 The following information associated with the Residual Heat Removal System F	Ferrarini
discharge header train cross-connect valve and associated actuator from Unit 2 Loop 2 to Unit 3 Loop 1 BFN-2-FCV-074-0101:	
1. Purchase specifications	
2. Weak link analysis	
3. Vendor manual	
4. Drawings	
5. Maintenance history	
6. List of modifications (i.e., material or design changes) and associated	
modification package and 50.59 screens/evaluations since original	
installation	
7. List of periodic surveillance test procedures	
8. Most recent completed surveillance test including LLRT, valve timing,	
position verification, and actuator thrust/torque performance (entire WO	
package)	
9. Valve performance trend data since 1/1/08	
10. Evaluation of any observed valve degradation observed during the last 5	
years (if any)	
11. Seismic analysis/qualification	
12. Environmental qualification documentation	
13. MOV schematic control diagrams	
13. MOV schematic control diagrams	Ferrarini
13. MOV schematic control diagrams 6 The following information associated with the Unit 3 Residual Heat Removal Heat F Exchanger outlet valve and associated actuator BFN-3-FCV-023-0046:	Ferrarini
13. MOV schematic control diagrams 6 7 6 7 7 8 8 9 9 10 10 11 12 12 13 13 14 15 16 17 18 19 10 10 11 12 12 13 14 15 16 17 18 19 10 10 11 12 12 13 14 15 16 17 17 18 19 10 10 11 12 13 14	Ferrarini
13. MOV schematic control diagrams 6 The following information associated with the Unit 3 Residual Heat Removal Heat F Exchanger outlet valve and associated actuator BFN-3-FCV-023-0046:	Ferrarini

		1
	5. Maintenance history	
	List of modifications (i.e., material or design changes) and associated	
	modification package and 50.59 screens/evaluations since original	
	installation	
	List of periodic surveillance test procedures	
	8. Most recent completed surveillance test including LLRT, valve timing,	
	position verification, and actuator thrust/torque performance (entire WO	
	package)	
	9. Valve performance trend data since 1/1/08	
	10. Evaluation of any observed valve degradation observed during the last 5	
	years (if any)	
	11. Seismic analysis/qualification	
	12. Environmental qualification documentation	
	13. MOV schematic control diagrams	
137	The following information associated with the South EECW supply header check	Ferrarini
	valve to the Unit 3 'A' Diesel Generator Cooler BFN-3-CKV-067-0695:	
	1. Vendor manual	
	2. Drawings	
	3. Maintenance history	
	4. List of modifications (i.e., material or design changes) and associated	
	modification package and 50.59 screens/evaluations since original	
	installation	
	List of periodic surveillance test procedures	
	Most recent completed surveillance test including LLRT and position	
	verification (entire WO package)	
	7. Valve performance trend data since 1/1/08	
	8. Evaluation of any observed valve degradation observed during the last 5	
	years (if any)	
138	The following information associated with the South EECW supply header	Ferrarini
	backflow check valve to the Unit 3 'A' Diesel Generator Cooler BFN-3-CKV-067-	
	0696:	
	0000.	
	1. Vendor manual	
	2. Drawings	
	3. Maintenance history	
	4. List of modifications (i.e., material or design changes) and associated	
	modification package and 50.59 screens/evaluations since original	
	installation	
	List of periodic surveillance test procedures	
	6. Most recent completed surveillance test including LLRT and position	
	verification (entire WO package)	
	7. Valve performance trend data since 1/1/08	
	8. Evaluation of any observed valve degradation observed during the last 5	
	years (if any)	1
139	The following information associated with the South EECW supply header check	Ferrarini
	valve to the Unit 3 'B' Residual Heat Removal pump seal cooler and room cooler	
	BFN-3-CKV-067-0601:	
		1
	1. Vendor manual	
	2. Drawings	

	 List of modifications (i.e., material or design changes) and associated modification package and 50.59 screens/evaluations since original installation List of periodic surveillance test procedures Most recent completed surveillance test including LLRT and position verification (entire WO package) Valve performance trend data since 1/1/08 Evaluation of any observed valve degradation observed during the last 5 years (if any) 	
140	 The following information associated with the South EECW supply header back flow check valve to the Unit 3 'B' Residual Heat Removal pump seal cooler and room cooler BFN-3-CKV-067-0600: 1. Vendor manual 2. Drawings 3. Maintenance history 4. List of modifications (i.e., material or design changes) and associated modification package and 50.59 screens/evaluations since original installation 5. List of periodic surveillance test procedures 6. Most recent completed surveillance test including LLRT and position verification (entire WO package) 7. Valve performance trend data since 1/1/08 8. Evaluation of any observed valve degradation observed during the last 5 years (if any) 	Ferrarini
141	 The following information associated with the Residual Heat Removal Unit 3 'B' Heat Exchanger BFN-3-HEX-074-0900B: Performance requirements/assumptions used to support Chapter 14 accident analysis (i.e., DBA LOCA). Include range of RHRSW temperature evaluated. Purchase specifications Drawings Vendor manual Calculations (heat transfer performance) Maintenance history List of modifications (i.e., material or design changes) and associated modification package and 50.59 screens/evaluations since original installation List of periodic performance monitoring procedures Most recent completed performance monitoring data since 1/1/08 Seismic analysis/qualification Evaluation of any observed valve degradation observed during the last 5 years (if any) List of related industry operating experience issues and how BFN evaluated/addressed each. 	Ferrarini

142	The following information associated with the Unit 3 'B' Residual Heat Removal	Ferrarini
	Pump room cooler BFN-3-CLR-064-0069:	
	 Performance requirements/assumptions used to support Chapter 14 	
	accident analysis (i.e., DBA LOCA). Include range of RHRSW	
	temperature evaluated.	
	2. Purchase specifications	
	3. Drawings	
	4. Vendor manual	
	Calculations (heat transfer performance)	
	6. Maintenance history	
	List of modifications (i.e., material or design changes) and associated	
	modification package and 50.59 screens/evaluations since original	
	installation	
	List of periodic performance monitoring procedures	
	9. Most recent completed performance monitoring work order.	
	10. Heat exchanger performance trend monitoring data since 1/1/08	
	11. Seismic analysis/qualification	
	12. Evaluation of any observed valve degradation observed during the last 5	
	years (if any)	
	13. List of related industry operating experience issues and how BFN	
	evaluated/addressed each.	
143	Copies of the following corporate led self-assessments	Kern
	1. CRP-ENG-F-12-001	
	2. CRP-ENG-F-12-002	
	3. CRP-ENG-F-12-009	
	4. CRP-ENG-F-12-011	
	5. CRP-ENG-F-12-014	
	6. CRP-ENG-F-12-015	
	7. CRP-ENG-F-12-017	
	8. CRP-ENG-F-12-019	
	9. CRP-ENG-F-12-020	
	10. CRP-ENG-F-12-021	
	11. CRP-ENG-F-12-025	
	12. CRP-ENG-F-12-026	
	13. CRP-ENG-F-11-002	
	14. CRP-ENG-F-11-004	
	15. CRP-ENG-S-11-005	
	16. CRP-REF-F-11-001	
	17. CRP-ENG-F-10-004	
	18. CRP-ENG-F-10-007	
	19. CRP-ENG-S-10-001	
	20. CRP-ENG-S-10-011	
	21. CRP-ENG-S-10-013	
144	All UFSAR section 10.9 drawings	Kern
145	P&ID (flow drawings) for all 3 Units for the following systems:	Kern
	4 000	
	1. CSS	
	2. RHR	
	3. RHRSW	
	4. EECW	
1		1

146	Design Basis Document for the following systems:	Kern
	5. CSS	
	6. RHR	
	7. RHRSW	
	8. EECW	
147	BFN response to NRC GL 89-13 and NRC response	Kern
148	Procedures and/or program documents that implement BFN's NRC GL 89-13 program	Kern
149	Completed work package for last replacement of the Unit 1 vital battery (the TS batter with 120 cells).	Kern
150	GL 89-10 MOV program document, including listing of MOVs in program scope.	Kern
151	The latest 10 CFR 50.65(a)(3) Maintenance Rule periodic evaluation for each unit.	Kern
152	Snap Shot Assessment of the system health reports (stated as FP-13, PER 547427, effectiveness review action item due in Feb 2013)	Kern
153	PERs associated with RHR System Health Reports	Kern
	4 440000	
	1. 142923,	
	2. 210437,	
	3. 214957,	
	4. 232449,	
	5. 235900,	
	6. 271338,	
	7. 274840,	
	8. 315818,	
	9. 362340,	
	10. 369800,	
	11. 392781,	
	12. 410394,	
	13. 485119,	
	14. 539886,	
	15. 539889,	
	16. 567719,	
	17. 643071,	
	18. 812236	
154	Current 10 year cycle IST Plan (pumps & valve testing) for each of the 3 units. Also provide copy of applicable IST code(s) in effect for each respective unit's IST	Kern
	Plan.	
155	PER 417006	Kern
156	Evaluation or documentation associated with each commercial grade dedication	Kern
	performed for BF since 1/1/07. Identify which evaluations pertain to safety-related	
	parts that have been installed at BF unit 1, 2, or 3.	
157	PER associated with 2013 NRC CDBI issue regarding deficient HPCI test	Kern
	requirements. Also SR 687904	
158	Provide IST trend data and motor trend data for each of the 12 CS pumps/motors,	Kern
	the 12 RHRSW pumps/motors, and the 12 RHR pumps/motors for the period	
	1/1/08 to current. Prefer a data listing and graph for each.	
	BF evaluation for applicability of NRC N 2010-11.	Kern
159		NEIII

160	PERS associated with EECW System Health Report	Kern
	1. 150500,	
	2. 160106,	
	3. 223543,	
	4. 211737,	
161	5. 381569, The status of replacing 2A RHR motor.	Kern
162	Operator log or other monitoring data for Unit 2 and Unit 2 pressure suppression	Kern
	chamber (PSC) keep fill system pressure and head tank level. If available as a	
	computer trended point, provide data for period 1/1/12 to 3/31/13. If not on	
	computer trend, provide data for the first day of each month (Jan 2012 – Mar 2013)	
160	and daily for 3/1 – 3/31/13.	Korp
163 164	All Fire Protection related PERS open and closed over the last 5 years Self Assessments	Kern Kern
104	Seir Assessments	Kem
	1. BFN-95003-S-12-001	
	2. BFN-ENG-F-12-013	
	3. BFN-ENG-S-12-001	
	4. BFN-ENG-S-12-007	
	5. BFN-ENG-S-12-014	
	6. BFN-ENG-S-12-020 7. BFN-ENG-S-12-022	
	8. BFN-PI-S-12-022	
	9. BFN-PI-S-12-007	
	10. BFN-PI-S-12-019	
	11. BFN-PI-S-12-029	
	12. BFN-PI-S-12-033	
	13. BFN-PI-S-12-034	
	14. BFN-ENG-F-11-003 15. BFN-ENG-F-11-004	
	16. BFN-TRN-F-11-004	
165	Procedures for programs listed below. (Please verify correct procedure number for	Kern
	the program identified.)	
	1. NPG-SPP-02.3 Operating Experience	
	2. NPG-SPP-03.4 Maintenance Rule Trending	
	3. NPG-SPP-06.7 Instrumentation Setpoint and Calibration	
	4. NPG-SPP-06.9 Testing Programs 5. NPG-SPP-06.9.1 Conduct of Testing	
	6. NPG-SPP-08.9.1 Conduct of resting	
	7. NPG-SPP-09.1 ASME Code and Augmented Programs	
	8. NPG-SPP-OP.1.2 ASME Section XI Pressure Test Program	
	9. NPG-SPP-09.12 Margin Management	
	10. NPG-SPP-09.14 NRC GL 89-13 Implementation	
	11. NPG-SPP-09.16 (rev. 4) Plant Health Committee	
	12. NPG-SPP-09.16 (rev. 2) SSC and Program Health 13. NPG-SPP-09.16 (Rev. 0) Performance Monitoring Program	
	14. NPG-SPP-09.18 Material Condition Improvement Plan	
	15. NPG-SPP-09.4M 10 CFR 50.59	
	16. NPG-SPP-09.4U 10 CFR 50.59	
	17. NPG-SPP-09.7 Corrosion Control	

166	PERS (including follow-up actions) associated with the following IP 95003 Part 1	Kern
	inspection findings.	
	1. 05000259(260)(296)/ 2011011-01	
	2. 05000259(260)(296)/ 2011011-02	
	3. 05000259(260)(296)/ 2011011-03	
	4. 05000259(260)(296)/ 2011011-04	
	5. 05000259(260)(296)/ 2011011-05	
167	PERS (including follow-up actions) associated with the following IP 95003 Part 2	Kern
	inspection finding 05000259(260)(296)/2011012-01	
168	Root Cause Evaluation procedure	Kern
169	Documents associated with CS system health as follows:	Kern
	, ,	
	1. Non-conforming HGA relay PERs 415242 and 454956	
	2. last 3 leak tests for each of the Unit 1 and 2 and 3 Core Spray testable	
	check valves (6); for example BFN-2-CKV-075-0026 is 1 of these 6 valves.	
	3. last 3 leak tests for each of the Unit 1 and 2 and 3 Core Spray discharge	
	header inboard containment isolation valves (6); for example BFN-FCV-	
	75-25 is 1 of these 6 valve.	
	4. all PERs (since 1/1/09) associated with CS testable check valve and/or CS	
	discharge header inboard containment isolation valve leakage	
	alsonarye header hisoara containment isolation valve leakaye	
170	The following information associated with Unit 3 'B' Residual Heat Removal	Mazzoni
170		IVIAZZUIII
	System Pump Motor BFN-3-MTR-074-0028:	
	1 Durchass apositions including manufactures materiast data	
	1. Purchase specifications including manufacturer motor test data	
	2. Most recent motor performance data (i.e., motor start and motor running	
	current and voltage data)	
	3. Vendor manual	
	4. Drawings	
	5. Maintenance history	
	6. List of modifications (i.e., material or design changes) and associated	
	modification package and 50.59 screens/evaluations since original	
	installation	
	7. List of periodic surveillance test procedures and copy of most recent motor	
	performance data	
	8. Environmental qualification documentation	
	9. Motor breaker schematic control diagrams	
171	The following information associated with the 2B Residual Heat Removal Service	Mazzoni
	Water System Pump Motor BFN-0-MTR-023-0019:	
	1. Purchase specifications including manufacturer motor test data	
	2. Most recent motor performance data (i.e., motor start and motor running	
	current and voltage data)	
	3. Vendor manual	
	4. Drawings	
	5. Maintenance history	
	6. List of modifications (i.e., material or design changes) and associated	
	modification package and 50.59 screens/evaluations since original	
	installation	
	ii istailation	
		1

	7. List of periodic surveillance test procedures and copy of most recent	
	motor performance data	
	 8. Environmental qualification documentation 9. Motor breaker schematic control diagrams 	
172	The following information associated with Unit 2 'C' Core Spray System Pump	Mazzoni
172	Motor BFN-2-MTR-075-0014:	IVIAZZOTII
	1. Purchase specifications including manufacturer motor test data	
	2. Most recent motor performance data (i.e., motor start and motor running	
	current and voltage data)	
	3. Vendor manual	
	4. Drawings	
	5. Maintenance history	
	 List of modifications (i.e., material or design changes) and associated modification package and 50.59 screens/evaluations since original 	
	installation	
	7. List of periodic surveillance test procedures and copy of most recent motor	
	performance data	
	8. Environmental qualification documentation	
	9. Motor breaker schematic control diagrams	
173	Abnormal operating procedure for LOOP	Mazzoni
174	Abnormal operation procedure for SBO	Mazzoni
175	Alarm response procedures for EDG	Mazzoni
176	Browns Ferry SER	Mazzoni
177	EDG system self assessment reports (by TVA) since from the last 10 years	Mazzoni
178	EDG system health reports from the last 5 years	Mazzoni
179	EDG main breaker Schematic Control Diagrams	Mazzoni
180 181	Class 1 E Medium Voltage Bus main breaker Schematic Control Diagrams RHRSW B1 motor breaker Schematic Control Diagrams	Mazzoni Mazzoni
182	RHRWS B2 motor breaker Schematic Control Diagrams	Mazzoni
183	Reports of the last two incidents of loss of offsite power (LOOP), providing detail	Mazzoni
100	graphing for automatic actions (switchyard SER graphs, plant computer	Mazzoni
	graphs/event time records)	
184	Plant Electrical Systems Design Bases Documents, for Class 1E AC, DC, and	Mazzoni
	EDG	
185	Basis document for the plant response to station blackout (SBO)	Mazzoni
186	The following electrical drawings:	Mazzoni
	1. Switchyard main one line diagram	
	 EDG main one line diagram, including 4.16kV shut down boards and Class 1E boards. 	
	3. 460 V Class 1E boards	
	4. 250 VDC Class 1E batteries	
187	Criteria for Protective Relay Settings and Coordination	Mazzoni
188	Criteria for MOV thermal Over Load Protection	Mazzoni
189	Battery sizing calculations for the Class 1E dc system	Mazzoni
190	Charger sizing calculations for the Class 1E dc system	Mazzoni
191	Bus and Cable Protection system sizing and coordination for the Class 1E dc	Mazzoni
	system	
192	Cable sizing calculation for the Service Water pump, Core Spray pump and RHR	Mazzoni
L	pump motors	I

193	EDG loading calculations all EDGS?	Mazzoni
194	Short Circuit Calculations for the Class 1 E AC Medium Voltage and Low Voltage	Mazzoni
	Buses	
195	Loading Calculations and for the Class 1 E AC Medium Voltage and Low Voltage Buses	Mazzoni
196	Degraded Voltage Relay Settings calculation/evaluation and schematic control diagrams	Mazzoni
197	Protective Relay Settings calculations/evaluation and schematic control diagrams for the following:	Mazzoni
	 Core Spray motor BFN-2-MTR-075-0014 Residual Heat Removal motor BFN-3-MTR-074-0028 Residual Heat Removal Service Water BFN-0-MTR-023-0019 All EDGs 	
198	Schematic control diagrams for the Class 1 E AC Medium Voltage and Low Voltage Buses	Mazzoni
199	The following EDG completed surveillance tests for all EDGs:	Mazzoni
	 3 most recent monthly 2 most refueling outage, including the most recent load sequence test and 24 hour run test for each EDG 	
200	The most recent completed surveillance tests for the following:	Mazzoni
	 RHRSW B1 motor RHRSW B3 motor 	
201	The most recent completed battery discharge tests for each of the Class 1E batteries	Mazzoni
202	The Class 1E 4.6 kV motor test requirements, and the two most recent completed test reports on Core Spray, RHR, and RHRSW motors listed: 1. BFN-2-MTR-075-0014 2. BFN-3-MTR-074-0028 3. BFN-0 MTR-074-0028	Mazzoni
203	3. BFN-0-MTR-023-0019 Voltage regulation calculations/Evaluations and schematic control diagram under:	Mazzoni
	 EDG power Preferred Power Supply (PPS) power 	
204	Most recently completed surveillance tests for and 3 units Containment HVAC fan and compressor motors	Mazzoni
205	The 5 most recent operability determination evaluations	Shaikh
206	The 5 most recent Ultrasonic examination reports and Examiner certification records for each NDE examination	Shaikh
207	The 5 most recent Magnetic particle examination reports and Examiner certification records for each NDE examination	Shaikh
208	The 5 most recent Penetrant examination reports and Examiner certification records for each NDE examination	Shaikh
209	The 5 most recent Visual examination reports	Shaikh
210	The 5 most recent 50.59 evaluations and 5 most recent 50.59 screenings	Shaikh
211	The 5 most recent engineering design change packages that have been installed	Shaikh

212	List of all PERs (since 1/1/11) identifying discrepancies between design drawings	Shaikh
	and as-found condition of SSCs and associated Engineering Evaluations (if	
040	applicable) to address these discrepancies	Ohailah
213	Name(s) and contact information of POCs for BWR Vessels Internals Program (BWRVIP), Buried Piping program, FAC program, and ISI program	Shaikh
214	Current EDG fuel oil calculations that demonstrate fuel oil tank capacity is	Shaikh
214	sufficient to meet EDG mission time for each Rx unit. (i.e., 4 EDGs draw off	SHAIKH
	tank(s) to meet Unit 1 and 2 EDG mission times and 4 EDGs draw off tank(s) to	
045	meet Unit 3 mission time. Provide the separate calculations for each.)	Ohailah
215	The 5 most recent ASME Section XI repair/replacement plans	Shaikh
216	Documents that show whether the pipe that failed and required the 3/19/13 Unit 1	Shaikh
	shut down is in a monitoring program such as the Flow Accelerated Corrosion	
	(FAC) program. If it was in a monitoring program. Provide data since 1/1/09 for	
	this monitored pipe.	
217	Copies of the following Self Assessments:	Shaikh
	1. CRP-ENG-F-12-007	
	2. CRP-ENG-F-12-010	
	3. BFN-TRN-S-12-009	
	4. BFN-TRN-S-12-017	
	5. BFN-TRN-S-12-022	
	6. BFN-TRN-S-12-025	
	7. BFN-TRN-S-12-034	
	8. BFN-TRN-S-12-048	
	9. BFN-ENG-F-11-004	
	10. BFN-ENG-S-11-013	
	11. FN-TRN-F-11-003	