

June 30, 2010

**UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION**

Before the Atomic Safety and Licensing Board

In the Matter of)	
)	Docket Nos. 50-282-LR
Northern States Power Co.)	50-306-LR
)	
(Prairie Island Nuclear Generating Plant,)	ASLBP No. 08-871-01-LR
Units 1 and 2))	

**NORTHERN STATES POWER COMPANY'S FIRST SUPPLEMENTAL
DISCLOSURES REGARDING SAFETY CULTURE CONTENTION**

Pursuant to 10 C.F.R. § 2.336(a), Northern States Power Company – a Minnesota Corporation (“NSPM”) hereby supplements its initial disclosures regarding the Prairie Island Indian Community’s (“PIIC”) safety culture contention as follows. A description by category and location of relevant, non-privileged documents and data compilations that have been identified as subsequently developed or obtained is provided in Attachment 1. Arrangements for reviewing these documents at the Prairie Island Nuclear Generating Plant Training Center can be made by contacting Mr. Eugene Eckholt at 651-388-1121 ext. 4137. Arrangements for reviewing these documents in Washington D.C. can be made by contacting Ms. Stefanie Nelson George at 202-663-9382. A listing of documents that are proprietary is provided in Attachment 2. A listing of documents that are privileged is provided in Attachment 3.

Respectfully Submitted,

/Signed electronically by Stefanie Nelson George /

David R. Lewis
Matias F. Travieso-Diaz
Stefanie Nelson George
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Counsel for Northern States Power Co.

Dated: June 30, 2010

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(Prairie Island Nuclear Generating Plant, Units 1 and 2))	ASLBP No. 08-871-01-LR
)	

CERTIFICATE OF SERVICE

I hereby certify that copies of “Northern States Power Company’s First Supplemental Disclosures Regarding Safety Culture Contention,” dated June 30, 2010, was provided to the Electronic Information Exchange for service on the individuals listed below, this 30th day of June, 2010.

Administrative Judge
William J. Froehlich, Esq., Chair
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U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001
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Administrative Judge
Dr. Gary S. Arnold
Atomic Safety and Licensing Board
Mail Stop T-3 F23
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001
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Administrative Judge
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Atomic Safety and Licensing Board
Mail Stop T-3 F23
U.S. Nuclear Regulatory Commission
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Secretary
Att’n: Rulemakings and Adjudications Staff
Mail Stop O-16 C1
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Washington, D.C. 20555-0001
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Office of Commission Appellate Adjudication
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/Signed electronically by Stefanie Nelson George /

Stefanie Nelson George

June 29, 2010

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NUCLEAR REGULATORY COMMISSION**

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Northern States Power Co.)	50-306-LR
)	
(Prairie Island Nuclear Generating Plant,)	ASLBP No. 08-871-01-LR
Units 1 and 2))	

**Certification of First Supplemental Disclosures Regarding Safety Culture Contention
Affidavit of Eugene F. Eckholt**

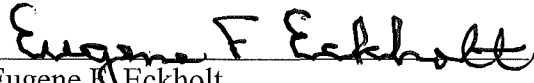
I, Eugene F. Eckholt, being duly sworn, state:

I am providing this certification in support of the disclosures of Northern States Power Company – a Minnesota Corporation (“NSPM”) in the license renewal proceeding for the Prairie Island Nuclear Generating Plant, Units 1 and 2. I am the Project Manager for the License Renewal Project and am authorized to provide this certification.

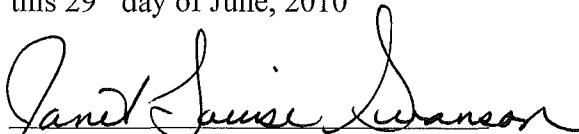
To the best of my knowledge and belief, NSPM’s first supplemental disclosures regarding the Prairie Island Indian Community’s safety culture contention in this proceeding contain all materials required to be disclosed by 10 C.F.R. § 2.336(d), as modified by the Atomic Safety and Licensing Board’s May 13, 2010 and June 10, 2010 Orders, that NSPM has identified to date as relevant through a search of the information and documentation reasonably available to and under the possession, custody and control of NSPM.

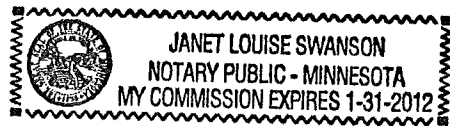
Further, to the best of my knowledge, information and belief, and based on the review of information and documentation reasonably available to and under the possession, custody and control of NSPM, these first supplemental disclosures are accurate and complete as of this date.

Further the affiant sayeth not.


Eugene F. Eckholt
Project Manager, License Renewal Project
Northern States Power Company – a Minnesota
Corporation
Prairie Island Nuclear Generating Plant
1717 Wakonade Drive East
Welch, MN 55089
651-388-1121 ext. 4137

Subscribed and sworn to before me
this 29th day of June, 2010


Notary Public



My commission expires: 1-31-2012

ATTACHMENT 1

**Northern States Power Co.
Prairie Island Nuclear Generating Plant, Units 1 and 2 License Renewal Proceeding
Docket Nos. 50-282-LR, 50-306-LR; ASLBP No. 08-871-01-LR
Production Log for NSPM's First Supplemental Disclosures Regarding Safety Culture Contention (June 30, 2010)**

Document Number	Description
PROD00019941	Photo Related to Refueling Cavity Leakage
PROD00019942	Photo Related to Refueling Cavity Leakage
PROD00019943	Photo Related to Refueling Cavity Leakage
PROD00019944	Photo Related to Refueling Cavity Leakage
PROD00019945	4/26/2010 SE-0401 Action Tracking Search Engine
PROD00019946	5/27/2010 Summary for stakeholder communications
PROD00019947	Narrative re: NRC regulatory conference and proposed findings
PROD00019948	3/9/2010 Maintenance Procedure for Refuel Cavity Caulking
PROD00019949	11/6/2009 Maintenance Operating Procedure for Isolation, Restoration and Testing of 11 TD Aux Feed Pump
PROD00019950	50.59 Screening: Change Air Filter/Pressure Regulator Make/Model AF CV-31998 & CV-31999 AFW Steam Admission Valves
PROD00019951	50.59 Screening: Preparation of Maximum Expected Differential Calculations for PINGP MOVs
PROD00019952	5/19/2009 Action Request: Declining Trend in Site Cross Cutting Index
PROD00019953	6/10/2009 Action Request: CAPR from RCE 01157726 lost when procedure revised
PROD00019954	1/20/2006 Procedure Revision for 22 Turbine Driven Auxiliary Feedwater Pump Auto Start and Functional Refueling Outage Test
PROD00019955	12/22/2009 Action Request Record Report re PITC 3.18 Critical Task List
PROD00019956	Response to NRC question re: postulate break sized in the CL system and flow form Fire Protection sprinkler acuation.
PROD00019957	1/6/2010 Email from M. Mitchell to K. Balakrishnan re: threshold seals for flooding analysis
PROD00019958	1/24/2010 Determination of Habitability Time in Turbine Building After HELB Scenarios that cause Flooding
PROD00019959	Flow Diagram Sprinkler Fire Protection System Turbine Room
PROD00019960	3/27/1996 Revised Fire Protection Piping Turbine Room Unit 1 Schematic
PROD00019961	10/9/1982 Revisions to Fire protection piping service bldg schematic
PROD00019962	3/26/1996 Revisions to Fire Protection Piping Turbine Room Unit 2 schematic
PROD00019963	11/11/2008 Revisions to Turbine Bearing Preaction System
PROD00019964	3/25/1996 Revisions to Turbine Unit 1 Wet System Below Operative Schematic
PROD00019965	06/12/1992 Revision to Unit 1 Sprinkler Plan schematic
PROD00019966	1/25/1971 Revision to Systems SWP1 Sprinkler System schematic
PROD00019967	11/13/1976 Systems SWP-4 SWP-5 SWP-6 Sprinkler Systems schematic
PROD00019968	11/23/1970 System SWP-3 Sprinkler System schematic
PROD00019969	5/26/1971 Colt Industries Pump Division Certified Curve Head Pressure v. GPM

Document Number	Description
PROD00019970	3/30/2009 email from M. Smutny to D. Malek regarding access after HELB at PINGP.
PROD00019971	3/9/2009 NRC Question Response Form regarding HELB at PINGP.
PROD00019972	4/17/2009 memo from D. Malek to K. Ryan regarding CC Piping adjacent to HELB Location in Turbine Building.
PROD00019973	7/6/2009 memo from D. Malek to K. Ryan regarding CC Piping adjacent to HELB Location in turbine building.
PROD00019974	3/5/2009 NRC Question Response Form regarding operational history of 12-MS-35.
PROD00019975	3/5/2009 NRC Question Response Form regarding operations staffing at PINGP.
PROD00019976	5/20/2009 email from J. Ritter to D. Malek regarding variance in CC surge tank level.
PROD00019977	Component Cooling Water Surge Tank Level Calculation.
PROD00019978	2/19/2009 email from J. Johnson to D. Malek regarding draining of CC valves.
PROD00019979	3/18/2009 email from D. Malek to K. DenHerder regarding CC-HELB analysis.
PROD00019980	3/5/2009 NRC Question Response Form regarding de-aeration of steam line at PINGP.
PROD00019981	3/8/2009 email from D. Malek to K. DenHerder regarding analysis of CC-HELB.
PROD00019982	4/21/2009 email from D. Malek to R. Murray and K. DenHerder regarding CC-HELB update.
PROD00019983	1/12/2010 email from K. DenHerder to J. Bickel regarding specifications at PINGP relating to HELB.
PROD00019984	7/24/2009 procedure manual titled Strategic Water Chemistry Plan for PINGP Secondary System Chemistry.
PROD00019985	Screen capture image depicting CC-HELB\ERCS Trend of U2 Tank Levels
PROD00019986	2/18/2009 email from J. Ritter to D. Malek regarding equipment used in CC system.
PROD00019987	3/20/2009 email from D. Malek to K. Kriesel regarding CC/HELB contingencies at PINGP.
PROD00019988	6/4/2009 email from D. Malek to R. Rohrer regarding CC-HELB report.
PROD00019989	3/13/2009 email from R. Best to D. Malek regarding CC issue and licensing at PINGP.
PROD00019990	4/3/2009 Report: Limiting Time for Operator Action to Mitigate Flooding Effects from a Postulated Feedwater Condensate System HELB
PROD00019991	PDA Driven Turbine Building Flooding Events
PROD00019992	2/18/2009 email from J. Ritter to D. Malek regarding operation of reactor tank at PINGP.
PROD00019993	2/18/2009 email from J. Ritter to D. Malek regarding reactor tank operation at PINGP.
PROD00019994	2/18/2009 email from J. Ritter to D. Malek regarding reactor tank operation at PINGP.
PROD00019995	2/23/2010 NRC Question Response Form regarding time-dependent operator actions.
PROD00019996	2/23/2010 NRC Question Response Form regarding time-dependent operator actions.
PROD00019997	Simulator Runs for Turbine Building HELB flood.
PROD00019998	6/5/2010 email from R. Best to D. Malek regarding CC HELB issue at PINGP.
PROD00019999	7/1/2009 email from J. Ritter to S. Eide regarding SGTR event tree at PINGP.
PROD00020000	6/2/2009 email from J. Ritter to D. Malek regarding HELB calculations.
PROD00020001	5/15/2009 email from J. Ritter to D. Malek regarding HELB tornado scenario.
PROD00020002	6/5/2009 email from D. Potter to D. Malek and others at Xcel regarding HELB issues.
PROD00020003	3/26/2009 email from W. Djordjevic to D. Malek and others at Xcel regarding CC piping.
PROD00020004	6/5/2009 email from R. Rohrer to D. Malek regarding CC piping at PINGP.
PROD00020005	4/19/2009 memo from D. Malek to K. Ryan regarding status of turbine building HELB / CC piping

Document Number	Description
PROD00020006	3/30/2009 email from M. Smutny to D. Malek and D. Herling regarding flooding conditions at PINGP.
PROD00020007	3/30/2009 email from D. Smith to D. Malek and D. Herling regarding HELB flooding conditions at PINGP.
PROD00020008	6/5/2009 email from D. Malek to R. Best regarding CC-HELB risk significance.
PROD00020009	5/9/2009 email from R. Best to B. Horner regarding calculations for CC lines in turbine building.
PROD00020010	5/9/2009 email from B. Horner to R. Best regarding calculations for CC lines in turbine building.
PROD00020011	5/9/2009 email from R. Best to B. Horner regarding calculations for CC lines in turbine building.
PROD00020012	5/9/2009 email from B. Horner to R. Best regarding calculations for CC lines in turbine building.
PROD00020013	5/9/2009 email from R. Best to B. Horner regarding calculations for CC lines in turbine building.
PROD00020014	5/9/2009 email from B. Horner to R. Best regarding calculations for CC lines in turbine building.
PROD00020015	5/9/2009 email from J. Ritter to B. Horner and R. Best regarding calculation for CC lines in turbine building.
PROD00020016	5/9/2009 email from J. Ritter to B. Horner and R. Best regarding calculation for CC lines in turbine building.
PROD00020017	5/9/2009 email from B. Horner to J. Ritter and R. Best regarding calculations for CC lines in turbine building.
PROD00020018	3/20/2009 email from D. Malek to K. DenHerder regarding CC-HELB scenarios at PINGP.
PROD00020019	3/16/2009 email from D. Malek to K. DenHerder regarding CC-HELB scenarios at PINGP.
PROD00020020	3/20/2009 email from K. DenHerder to D. Malek regarding CC-HELB scenarios at PINGP.
PROD00020021	6/3/2009 email from D. Malek to A. Velaski regarding CC / HELB discussion.
PROD00020022	6/4/2009 email from D. Malek to R. Best regarding CC-HELB scenarios and measurements from PINGP.
PROD00020023	6/4/2009 email from D. Malek to R. Best regarding CC-HELB scenarios in turbine building.
PROD00020024	Table regarding effects of external events on cooling system components at PINGP.
PROD00020025	6/5/2009 email from R. Best to D. Malek regarding scenarios for CC-HELB in turbine building.
PROD00020026	Component Cooling Water / Turbine Building SDP Issue Risk Significance
PROD00020027	6/5/2009 email from D. Malek to R. Best and J. Ritter regarding scenarios for CC-HELB in turbine building.
PROD00020028	6/5/2009 email from D. Malek to R. Best regarding scenarios for CC-HELB in turbine building.
PROD00020029	8/12/2009 email from D. Malek to B. Slack regarding feedback for report about CC-HELB at turbine building.
PROD00020030	8/24/2009 email from J. Ritter to E. Krantz and D. Malek regarding scenarios for CC-HELB flooding at PINGP.
PROD00020031	8/24/2009 email from E. Krantz to J. Ritter and D. Malek regarding flooding scenarios for CC-HELB at PINGP.
PROD00020032	8/24/2009 email from J. Ritter to E. Krantz and D. Malek regarding flooding scenarios for CC-HELB at PINGP.
PROD00020033	3/19/2009 email from K. Kriesel to W. Djordjevic regarding analysis of structures at PINGP turbine building.
PROD00020034	5/31/2009 email from R. Best to D. Malek and J. Ritter regarding seismic scenarios at PINGP.
PROD00020035	3/25/2009 Engineering Walkdown Draft Report regarding scenarios with CC system at PINGP.
PROD00020036	3/25/2009 Engineering Walkdown Draft Report regarding scenarios with CC system at PINGP
PROD00020037	4/3/2009 email from K. Kriesel to B. Horner, R. Best and D. Malek regarding effects of high winds at PINGP.
PROD00020038	4/3/2009 email from B. Horner to R. Best, D. Malek, and K. Kriesel regarding effects of high wind at PINGP.
PROD00020039	3/31/2009 email from R. Best to D. Malek and J. Ritter regarding report discussing effects of high winds at PINGP.
PROD00020040	6/11/2009 email from R. Best to D. Malek regarding CC-HELB evaluation at PINGP.
PROD00020041	6/5/2009 report by R. Best regarding Component Cooling Water/Turbine Building SDP Issue Risk Significance
PROD00020042	3/3/2009 email from J. Ritter to D. Malek regarding HELB-CC events at PINGP.

Document Number	Description
PROD00020043	6/5/2009 email from R. Best to D. Malek discussing variables for simulated events at PINGP.
PROD00020044	6/4/2009 email from R. Best to D. Malek discussing variables for simulated events at PINGP.
PROD00020045	6/4/2009 email from R. Best to D. Malek discussing variables for simulated events at PINGP.
PROD00020046	2/25/2010 email from D. Malek to R. Rohrer regarding CC simulations at PINGP.
PROD00020047	Simulator Runs for Turbine Building HELB Flood at PINGP.
PROD00020048	2/25/2010 email from D. Malek to R. Rohrer and J. Lash regarding simulator run at PINGP.
PROD00020049	7/9/2009 meeting notes with PINGP event tree reviews.
PROD00020050	6/5/2009 email from R. Best to D. Malek regarding effect of CC on SDC at PINGP.
PROD00020051	6/5/2009 email from D. Malek to R. Best regarding effect of CC on SDC at PINGP.
PROD00020052	5/31/2009 email from R. Best to J. Ritter and D. Malek regarding seismic and tornado simulations for PINGP.
PROD00020053	5/31/2009 email from R. Best to J. Ritter and D. Malek regarding seismic and tornado simulations for PINGP.
PROD00020054	3/9/2009 email from W. Hadeka to D. Malek regarding HELB / CC SDP at turbine building at PINGP.
PROD00020055	3/31/2009 email from W. Hadeka to D. Malek regarding HELB / CC SDP update at turbine building at PINGP.
PROD00020056	5/21/2009 EPRI calculation dealing with CC failure scenario at PINGP
PROD00020057	5/21/2009 EPRI calculation dealing with CC failure scenario at PINGP
PROD00020058	6/11/2009 email from R. Best to D. Malek regarding call to NRC about CC/HELB at PINGP.
PROD00020059	6/9/2009 email from R. Best to D. Malek and A. Peterman regarding impact of CC-HELB review.
PROD00020060	Table with HELB pipe break calculations.
PROD00020061	Calculations involving SDC CCDP at PINGP.
PROD00020062	6/17/2009 K. Den Herder Response to NRC Question Response Form related to replacement of FAC piping for CC/HELB SDP requested 6/10/2009
PROD00020063	6/10/2009 K. Den Herder Response to NRC Question Response Form related to replacement of FAC piping for CC/HELB SDP requested 6/10/2009
PROD00020064	PowerPoint presentation re CCHELB/ Flooding Program
PROD00020065	3/19/2010 Email from M. Huting to M. Schimmel and others re MSRC evaluation and CCHELB inspection
PROD00020066	6/3/2009 PowerPoint presentation re CC/HELB NRC meeting
PROD00020067	5/21/2009 Email from M. Huting to M. Reddeman and others re summary of CCHELB management alignment call
PROD00020068	4/29/2009 Email from M. Huting to M. Schimmel re resolution of SDP activities on CCHELB
PROD00020069	2/16/2009 Email from M. Huting to M. Reddemann and others re whether CCHELB issue applies to Units 1 and 2
PROD00020070	PowerPoint presentation on PINGP CCHELB/Flooding Program Direction
PROD00020071	PowerPoint presentation on PINGP CCHELB/Flooding Program Direction
PROD00020072	2/15/2010 from M. Huting to T. Roddey & R. Rohrer re CCHELB timeline
PROD00020073	CCHELB timeline
PROD00020074	CC/HELB timeline of events
PROD00020075	CCHELB timeline of events
PROD00020076	Flooding Program Analysis
PROD00020077	6/3/2009 Email from M. Huting to M. Schimmel summary of CCHELB management alignment call

Document Number	Description
PROD00020078	3/9/2009 Email from M. Huting to D. Kettering & S. Skoyen re feedback from CCHELB SDP meeting
PROD00020079	3/9/2009 Summary of discussion with Jack Geissner at NRC on CC/HELB SDP Issue
PROD00020080	3/17/2010-3/18/2010 Summary from Management Safety Review Committee Meeting No 2010-01
PROD00020081	White paper on current and historical situation surrounding HELB flooding
PROD00020082	PowerPoint on NRC CCHELB submission
PROD00020083	6/25/2009 Email from M. Huting to R. Rohrer and others at Xcel re CCHELB meeting with NRC
PROD00020084	PowerPoint re direction of PINGP CCHELB/Flooding Program
PROD00020085	1/21/2010 Email from M. Huting to R. Rohrer re contractor work on PI SDP flooding
PROD00020086	5/7/2009 Email from M. Huting to M. Schimmel re direction of CCHELB presentation to NRC
PROD00020087	Presentation approach on PINGP Flooding SDP to NRC
PROD00020088	PowerPoint on direction or PINGP CCHELB Program
PROD00020089	12/29/2009 Email from M. Huting to C. Hessey re status of modifications for CCHELB
PROD00020090	12/29/2009 Email from C. Hessey to M. Huting re status of modifications for CCHELB
PROD00020091	White paper on status of CCHELB outcome and continued efforts prepared by M. Huting
PROD00020092	2/12/2009 Email from M. Huting to J. Ritter RE CC/HELB SDP assessment update
PROD00020093	5/28/2010 Email from M. Huting to C. Hessen re talking points for meeting on NRC determination
PROD00020094	White paper by M. Huting on CCHELB outcome and continued efforts
PROD00020095	6/4/2009 PowerPoint for CC/HELB NRC meeting
PROD00020096	White paper on SDP potential on HELB induced flooding
PROD00020097	PowerPoint on status of NRC CCHELB
PROD00020098	3/27/2010 report by C. Koehler CC/HELB 95001 inspection preparation
PROD00020099	6/24/2009 Email from R. Rohrer to J. Anderson & others at Xcel re status update Cochlea meeting with NRC
PROD00020100	3/20/1010 Email from J. Anderson to M. Huting re CCHELB inspection readiness
PROD00020101	6/3/2009 PowerPoint CC/HELB NRC meeting
PROD00020102	6/4/2010 Email from M. Schimmel to M. Huting re NRC Flooding Regulatory Conference
PROD00020103	6/4/2010 Email from M. Huting to M. Schimmel re NRC Flooding Regulatory Conference
PROD00020104	6/3/2010 Email from M. Huting to M. Schimmel re NRC Flooding Regulatory Conference
PROD00020105	White paper assessing current and historical HELB induced flooding at PINGP
PROD00020106	White paper assessing current and historical HELB induced flooding at PINGP
PROD00020107	White paper re CCHELB outcome and continued efforts prepared by M. Huting
PROD00020108	5/28/2010 Email from C. Hessen to M. Huting re talking points for 1500 meeting to discuss NRC regulatory conference
PROD00020109	White Paper re CCHELB outcome and continued efforts prepared by M. Huting
PROD00020110	1/25/2010 EC-15510 Temporary Flood Control Barrier for D5/D6
PROD00020111	1/25/2010 EC-15510 Temporary Flood Control Barrier for D5/D6
PROD00020112	1/25/2010 EC-15510 Temporary Flood Control Barrier for D5/D6
PROD00020113	1/25/2010 EC-15510 Temporary Flood Control Barrier for D5/D6
PROD00020114	Design Input Checklist (Part A- Engineering Programs and Departmental Reviews) Engineering Change Number 15510

Document Number	Description
PROD00020115	1/25/2010 Memo from B. Karnowski to K. Ryan re: EC 15510, Temporary Flood Control Barrier for D5/D6
PROD00020116	1/25/2010 Memo from J. Harlander and R. Murray to T. Roddey re: EC 15510, Temporary Flood Control Barrier for D5/D6
PROD00020117	1/25/2010 Memo from J. Harlander and R. Murray to T. Roddey re: EC 15510, Temporary Flood Control Barrier for D5/D6
PROD00020118	HELB Flood Barrier Do Not Remove sign
PROD00020119	HELB Flood Barrier Do Not Remove sign
PROD00020120	1/26/2010 Design Review Comment Form re: EC 15510/Temporary Flood Control Barrier for D5/D6
PROD00020121	1/26/2010 Design Review Comment Form re: EC 15510/Temporary Flood Control Barrier for D5/D6
PROD00020122	Temporary Modification Control Form re: Temporary Flood Control Barrier for D5/D6
PROD00020123	Temporary Modification Control Form re: Temporary Flood Control Barrier for D5/D6
PROD00020124	1/26/2010 Temporary Modification Extension re: Temporary Flood Control Barrier for D5/D6
PROD00020125	1/26/2010 Temporary Modification Extension re: Temporary Flood Control Barrier for D5/D6
PROD00020126	1/26/2010 Temporary Modification Extension re: Temporary Flood Control Barrier for D5/D6
PROD00020127	5/24/2010 Temporary Modification Extension re: Temporary Flood Control Barrier for D5/D6
PROD00020128	50.59 Screening re: Temporary Flood Control Barrier for D5/D6
PROD00020129	1/25/2010 50.59 Screening re: Temporary Flood Control Barrier for D5/D6
PROD00020130	EC 15510 Turnover Sheet
PROD00020131	Email with attachments from J. Horner to B. Karnowski re: Sump B Leakage
PROD00020132	WO# 9911323 re: Replace Grout in Sump B
PROD00020133	4/20/2010 2R26 Vacuum Box Testing in Unit 2 Re-Fueling Cavity
PROD00020134	10/21/2009 EC-15102 Temporary Flood Control Barrier for D1 & D2 Rooms
PROD00020135	EC-15102 Temporary Flood Control Barrier for D1 & D2 Rooms
PROD00020136	10/21/2009 EC-15102 Temporary Flood Control Barrier for D1 & D2 Rooms
PROD00020137	EC-15102 Temporary Flood Control Barrier for D1 & D2 Rooms
PROD00020138	10/23/2009 letter from M. Hopman to H. Hoelscher re: EC-15102, Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020139	10/23/2009 letter from M. Hopman to H. Hoelscher re: EC-15102, Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020140	50.59 Screening re: EC 15102: Temporary Flood Control Barriers for D1 and D2 Rooms
PROD00020141	Modification Classification re: Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020142	10/23/2009 Modification Classification re: Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020143	Modification Package Index re: PINGP Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020144	10/24/2009 Modification Package Index re: PINGP Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020145	Design Input Checklist (Part A- Engineering Programs and Departmental Reviews) re: Engineering Change Number 15102

Document Number	Description
PROD00020146	Design Input Checklist (Part A - Engineering Programs and Departmental Reviews) re: Engineering Change Number 15102
PROD00020147	Design Input Checklist (Part B- Design Considerations, Requirements, and Standards) re: EC Number 15102
PROD00020148	Design Input Checklist (Part B- Design Considerations, Requirements, and Standards) re: EC Number 15102
PROD00020149	10/21/2009 Design Input Consultation Form re: EC 15102 Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020150	10/21/2009 Design Input Consultation Form re: Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020151	10/21/2009 Design Input Consultation Form re: Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020152	10/21/2009 Design Input Consultation Form re: Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020153	10/21/2009 Design Input Consultation Form re: Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020154	10/21/2009 Design Input Consultation Form re: Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020155	10/21/2009 Design Input Consultation Form re: Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020156	10/23/2009 Design Input Consultation Form re: Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020157	10/23/2009 Design Input Consultation Form re: EC 15102 - Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020158	10/21/2009 Design Input Consultation Form re: HELB Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020159	10/21/2009 Design Input Consultation Form re: HELB Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020160	10/21/2009 Design Input Consultation Form re: Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020161	10/21/2009 Design Input Consultation Form re: Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020162	10/21/2009 Design Input Consultation Form re: Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020163	10/21/2009 Design Input Consultation Form re: Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020164	10/21/2009 Design Input Consultation Form re: Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020165	10/21/2009 Design Input Consultation Form re: Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020166	10/21/2009 Design Input Consultation Form re: Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020167	10/21/2009 Design Input Consultation Form re: (EC-15102) Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020168	10/21/2009 Design Input Consultation Form re: Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020169	10/21/2009 Design Input Consultation Form re: Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020170	10/21/2009 Design Input Consultation Form re: Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020171	10/21/2009 Design Input Consultation Form re: Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020172	10/23/2009 Design Input Consultation Form re: Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020173	10/23/2009 Design Input Consultation Form re: Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020174	Design Review Checklist re: EC 15102/Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020175	10/24/2009 Design Review Comment Form re: EC 15102/Temporary Flood Control Barrier for D1 and D2
PROD00020176	10/24/2009 Design Review Comment Form re: EC 15102/Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020177	Temporary Modification Control Form (PassPort Version) re: Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020178	Temporary Modification Control Form re: Temporary Flood Control Barrier for D1 and D2 Rooms
PROD00020179	Temporary Modification Control Form (PassPort Version) re: HELB Barrier label
PROD00020180	Temporary Modification Control Form (PassPort Version) re Raps Installation Checklist
PROD00020181	Temporary Modification Extension re: Temporary Flood Control Barrier for D1 and D2 Rooms

Document Number	Description
PROD00020182	EC 15102 HELB Barrier Layout Assembly Sketch
PROD00020183	EC 15102 HELB Barrier Layout Assembly Sketch
PROD00020184	EC 15102 HELB Barrier Layout Assembly Sketch
PROD00020185	HELB Barrier sign
PROD00020186	Photo of HELB Barrier sign
PROD00020187	Design Input Checklist (Part A- Engineering Programs and Departmental Reviews) re: Engineering Change Number 11963
PROD00020188	Temporary Modification Control Form (PassPort Version) re: Installation of the Lower 4KV Room Flood Barrier
PROD00020189	1/9/2008 50.59 Screening re: Installation of the Lower 4KV Room Flood Barrier
PROD00020190	12/09/2008 NRC Question Response Form, CC piping and seismic analysis
PROD00020191	Undated memo A-R 737382 OPR to determine non-conformance of CC system
PROD00020192	Undated document "Review of Seismic Qualification of Components Identified in CAP037749"
PROD00020193	Undated document OBD000109 non-seismic components in the CC system
PROD00020194	7/15/2005 meeting notes re: Qualification of CC piping to cold chem lab
PROD00020195	Undated document "Component Cooling Piping Project" "Engineering Work Scope"
PROD00020196	Undated Engineering Assistance Request Form re: seismic issues with CC piping in the Turbine Building
PROD00020197	Undated memo Component Cooling System Piping to Cold Chemistry and Hot Chemistry Lab.
PROD00020198	Undated Phase 1 Study Report for CC Piping
PROD00020199	Undated document Component Cooling Water System Phase 1 Study of Nonsafety Related CC Piping
PROD00020200	Undated document Component Cooling Water System Phase 1 Study of Nonsafety Related CC Piping (Phase 1 Cost)
PROD00020201	Undated document Component Cooling Water System Phase 1 Study of Nonsafety Related CC Piping (Phase 2 Cost)
PROD00020202	Undated Engineering Assistance Request (EAR) Component Cooling Piping in the Hot Chem Lab is not Seismically Qualified
PROD00020203	3/6/2006 Letter from A. V. Setlur, Automated Engineering to Marc Meyer, Nuclear Management Company re: Proposal to Provide Engineering Services for CC Piping Project
PROD00020204	3/19/2005 Email from Amjid Qureshi to Jeffery Conners and others re: non-conforming condition of 40 components in CC cooling system
PROD00020205	3/2/2006 Letter from Philip Gazda, Steveson Associates to Marc Meyer, Nuclear Management Company re: Proposal for CC Piping Project
PROD00020206	11/10/2005 Email from Steven Thomas to Amjid Qureshi re: Phase 1 Study of CC system and single failure criteria
PROD00020207	Undated table, Review of Issues and Options to Modify CC Piping to meet Upgraded Classification
PROD00020208	Undated memo re: review of the CC system and Seismic Qualification of Components
PROD00020209	6/22/2004 Calculation ENG-CS-278 re: components not included but cooled by CC water
PROD00020210	Undated Owner's Review of Calculation ENG-CS-278, Rev.1, prepared by Amjid Qureshi
PROD00020211	Undated memo re: Status of ODB000109 review of non-conforming condition of 40 components of CC System
PROD00020212	Undated memo re: Status of ODB000109 review of non-conforming condition of 40 components of CC System- Calculation ENG-CS-278, Rev. 1 completed

Document Number	Description
PROD00020213	Undated memo re: Status of ODB000109 review of non-conforming condition of 40 components of CC System- Calculation ENG-CS-278, Rev. 1 completed
PROD00020214	11/17/2008 NRC Question Response Form re: CC system and HELB
PROD00020215	2/2/2009 NRC Question Response Form re: SQUG submittal and equipment identified for safe
PROD00020216	2/2/2009 NRC Question Response Form re: tornado loads on CC piping in Turbine Building
PROD00020217	8/5/2009 Modification Classification re: CC lines to and from Cold Chemistry Lab
PROD00020218	Undated Design Input Checklist -Part A re: EC 14668 includes CC system
PROD00020219	Undated Design Input Checklist -Part B re: EC 14668 includes CC system
PROD00020220	Undated Design Description Form re: EC 14668 CC System and Cold Chemistry Lab
PROD00020221	5/26/2010 NRC Question Response Form re: consequence of HELB pipe wip in turbine building
PROD00020222	Effect on cable trays in the turbine building due to HELB
PROD00020223	Effect on cable trays in the turbine building due to HELB - Revision 2
PROD00020224	5/4/2010 G. Kvamme response to question re: effect on cable trays in the turbine building due to HELB
PROD00020225	1/21/2009 e-mail from M. Davis to G. Kvamme re: summary of discussion with NRC re: 4th quarter inspection
PROD00020226	6/15/2009 e-mail from K. Balakrishnan re: HELB / CC SDP
PROD00020227	5/26/2010 NRC Question Response Form re: consequences of HELB pipe whip in turbine building
PROD00020228	5/4/2010 e-mail from R. Rohrer to G. Kvamme re: HELB and cable trays in the turbine building
PROD00020229	6/3/2010 e-mail from D. Malek to R. Dremel and others at Xcel re: NRC Response Form re: HELB piping on cable trays
PROD00020230	5/26/2010 NRC Question Response Form re: HELB pipe whip impact on turbine building cable trays
PROD00020231	5/13/2010 e-mail from G. Kvamme to L. Noonan re: vacuum box testing in re-fueling cavity
PROD00020232	5/13/2010 summary of 2R26 vacuum box testing in unit 2 re-fueling cavity
PROD00020233	Significance Determination Process Phase 3 re: 3/23/2008 and 7/31/2008 auxiliary feedwater pump malfunctions
PROD00020234	V.SPA.08.0008, Addendum 1 Success of standby charging pump during loss of CC event.
PROD00020235	V.SPA.08.0008, Addendum 1 Success of standby charging pump during loss of CC event.
PROD00020236	V.SPA.08.0008, Addendum 1 Success of standby charging pump during loss of CC event.
PROD00020237	V.SPA.08.0008, Addendum 1 Success of standby charging pump during loss of CC event.
PROD00020238	Verification form for V.SPA.08.0008, Addendum 1 Success of standby charging pump during loss of CC event.
PROD00020239	RCP Seal LOCA graphs, PINGP loss of CCW due to HELB data
PROD00020240	Evaluation to address past operability concerns for a cc line break in the gas house that is subject to tornados.
PROD00020241	21 CC Surge TANK LVL (in) data chart
PROD00020242	V. SPA.08.008, Addendum 10 - 21 Component Cooling Water Surge Tank Level Calculation
PROD00020243	Document verification form for V. SPA.08.008, Addendum 10 - 21 Component Cooling Water Surge Tank Level Calculation
PROD00020244	Verification form for V. SPA.08.008, Addendum 11 - KNF HELB Pipe Failure Rates for the Prairie Island PRA
PROD00020245	V. SPA.08.008, Addendum 12 - CC-HELB SDP Event Trees
PROD00020246	V. SPA.08.008, Addendum 11 - CC-HELB SDP Event Trees
PROD00020247	Document verification form for V. SPA.08.008, Addendum 12 - CC-HELB SDP Event Trees

Document Number	Description
PROD00020248	V. SPA.08.008, Addendum 12 - CC-HELB SDP Event Trees
PROD00020249	Document verification form for V. SPA.08.008, Addendum 12 - CC-HELB SDP Event Trees
PROD00020250	Document verification form for V. SPA.08.008, Addendum 12 - CC-HELB SDP Event Trees
PROD00020251	01/30/2009 EPRI HRA Calculator 4.0 - OBRCPSTOPXY Operator fails to stop RCP's following a loss of component cooling and seal injection
PROD00020252	01/30/2009 EPRI HRA Calculator 4.0 - OBRCPSTOPXY Operator fails to start charging pump to provide RCS makeup at reduced inventory
PROD00020253	01/30/2009 EPRI HRA Calculator 4.0 - OBRCPSTOPXY Operator fails to start charging pump to mitigate RCP seal LOCA
PROD00020254	01/30/2009 EPRI HRA Calculator 4.0 - OBRCPSTOPXY Operator fails to start charging pump to provide RCS Makeup at reduced inventory
PROD00020255	Verification form for V.SPA.08.008 Addendum 13 - HRA for CC/HELB SDP
PROD00020256	05/27/2009 Human Reliability Analysis to support significance determination process at PINGP
PROD00020257	06/01/2009 NCR Question Response form
PROD00020258	V.SPA.08.008, Addendum 2 - SDP Quantification
PROD00020259	V.SPA.08.008, Addendum 2 - SDP Quantification
PROD00020260	V.SPA.08.008, Addendum 2 - SDP Quantification
PROD00020261	Document description log
PROD00020262	Document verification form V.SPA.08.008 Addendum 2 - SDP Quantification
PROD00020263	Document verification form V.SPA.08.008 Addendum 2 - SDP Quantification
PROD00020264	Cutsets with descriptions report HELB-F
PROD00020265	Cutsets with descriptions report - Tornado F
PROD00020266	Cutsets with descriptions report Tornado F
PROD00020267	11/21/2006 Reactor makeup system
PROD00020268	09/16/2008 Alarm response procedure
PROD00020269	03/01/2009 EPRI HRA Calculator 4.0 Operator Action Event Tree
PROD00020270	04/03/2009 EPRI HRA Calculator 4.0 Human reliability analysis calculation note - significance determination process
PROD00020271	02/27/2009 EPRI HRA Calculator 4.0 - Operator action event tree
PROD00020272	Operator actions related to the water makeup system
PROD00020273	RMW Tank Data
PROD00020274	E-mail text to Laura re additional information related to the CC/HELB SDP
PROD00020275	02/27/2009 - PINGP Component Cooling Water/Turbine Building Issue Risk Significance Summary of Xcel Analysis Performed
PROD00020276	10/04/1995 - PINGP Calculation sheet for single failure analysis for the component cooling system
PROD00020277	V.SPA.08.008 Addendum 3 - Success of Unit 2 Reactor Makeup Water System Following a Unit 1 HELB
PROD00020278	V.SPA.08.008 Addendum 3 - Success of Unit 2 Reactor Makeup Water System Following a Unit 1 HELB
PROD00020279	RMW Tank data

Document Number	Description
PROD00020280	RMW Tank data
PROD00020281	V.SPA.08.008, Addendum 3 - Success of Unit 2 Reactor Makeup Water System Following a Unit 1 HELB
PROD00020282	V.SPA.08.008, Addendum 3 - Success of Unit 2 Reactor Makeup Water System Following a Unit 1 HELB
PROD00020283	V.SPA.08.008, Addendum 3 - Success of Unit 2 Reactor Makeup Water System Following a Unit 1 HELB
PROD00020284	V.SPA.08.008, Addendum 4 External Event Fragilities for Seismic and Tornado Events
PROD00020285	V.SPA.08.008, Addendum 4 External Event Fragilities for Seismic and Tornado Events
PROD00020286	Photo Related to CC/HELB White Finding
PROD00020287	Photo Related to CC/HELB White Finding
PROD00020288	04/29/2009 Letter from W. Djordjevic at Stevenson & Associates to R. Best re RFP to support PI TB systems seismic risk analysis dated 04/24/2009
PROD00020289	03/15/2009 Email from J. Gehlhar to B. Horner, J. Ritter & R. Best re responses to question, CC HELB actions 28 & 29
PROD00020290	Ltdn T & VCT after loss of CC
PROD00020291	3/23/2009 Verification for V.SPA.08.008 Addendum 5 VCT Simulator Case Study
PROD00020292	Attachments 2, 3,4 for VCT report
PROD00020293	V.SPA.08.008 Addendum 5, Volume control tank simulator case study
PROD00020294	3/23/2009 Verification form for V.SPA.08.008 Addendum 5 - VCT Simulator Case Study
PROD00020295	3/23/2009 Verification form for V.SPA.08.008 Addendum 5 - VCT Simulator Case Study
PROD00020296	03/05/2009 NCR Question Response Form re Investigate the policies/procedures related to operations staffing during plant operation
PROD00020297	V.SPA.08.008 Addendum 6 HELB Environment Affect on Operator Availability
PROD00020298	4/3/2009 Verification form for V.SPA.08.008 Addendum 6, HELB Environment Affect on Operator Availability
PROD00020299	Assumptions for EPRI heat stress analysis
PROD00020300	3/21/2009 EPRI Heat Stress Analysis for CA 01093329-04
PROD00020301	3/21/2009 EPRI Heat Stress Analysis for CA 01093329-04
PROD00020302	EPRI NP-4453 Heat-Stress-Management Program for Nuclear Power Plants
PROD00020303	AFW Successful, no steam generator cool down & depressurization graphs
PROD00020304	Prairie Island MAAP 4.0.6 Analysis for CC/HELB SDP
PROD00020305	RCP seal LOCA with loss of CC - analysis #2, scenario#1
PROD00020306	Tank Book
PROD00020307	Case ECA 1.1: RCP Seal LOCA with loss of CCW. Transfer to ECA 1.1 and perform RCS depressurization and cool down.
PROD00020308	V.SPA.08.008, Addendum 7 MAAP Calculations for CC/HELB SDP
PROD00020309	Verification formV.SPA.08.008 Addendum 7 - MAAP Calculations for CC/HELB SDP - Analysis #1
PROD00020310	Verification formV.SPA.08.008 Addendum 7 - MAAP Calculations for CC/HELB SDP - Analysis #2
PROD00020311	Summary of relevant conclusions for HELB and AES calculations
PROD00020312	Design review comment form for AES Calculation PI-996-61-M01/ Evaluation of the effects of Jet Impingement on CC piping in the turbine building.

Document Number	Description
PROD00020313	External design document suitability review checklist for evaluation of the effects of Jet Impingement on CC piping in the turbine building
PROD00020314	Letter from Kari Den Herder to Jayne re response to questions for HELB lines identified in the 11/05/2008 NRC Information request
PROD00020315	HELB Piping - Jet Impingement Damage
PROD00020316	04/13/2009 Engineering Change re HELB line cracks
PROD00020317	Unit 1 -HELB Piping - Pipe Whip Damage Only
PROD00020318	Unit 1 HELB Piping - Pipe Whip Damage Only
PROD00020319	Units 1 and 2 HELB Piping data
PROD00020320	Verification form for V.SPA.08.008 Addendum 8 - Part 2 - HELB Pipe Break Frequency Calculation
PROD00020321	HELB Piping data
PROD00020322	Unit 1&2 pipe break calculations
PROD00020323	Pipe break calculation data for Units 1&2
PROD00020324	Documentation of all interactions between high energy piping and cooling water that also affect component cooling
PROD00020325	chart - rupture frequency data
PROD00020326	rupture frequency data
PROD00020327	Verification form for V.SPA.08.008 Addendum 8 - HELB pipe break frequency calculation
PROD00020328	03/31/2009 Job Performance Measure re Switch Reactor Makeup Tanks on Degas
PROD00020329	11/03/2008 Switchover to recirculation per 2ES-1.2, Attachment K
PROD00020330	04/24/2008 Simulator Exercise Guide, CC HELB Scenario
PROD00020331	V.SPA.08.008, Addendum 9 Operator Walkdowns and Simulator Runs for Component Cooling Piping Interaction With Turbine Building HELB Piping Significance Determination Process
PROD00020332	Table 1- Preliminary Simulator CC/HELB Scenario - 04/10/2009
PROD00020333	Table 4 - Preliminary Simulator CC/HELB Scenario - 04/29/2009
PROD00020334	Table 5- Preliminary Simulator CC/HELB Scenario - 05/06/2009
PROD00020335	Verification form for V.SPA.08.008 - Addendum 9, Operator walkdowns and simulator runs for CC/HELB SDP
PROD00020336	Component Cooling System Interaction with TB HELB Piping data
PROD00020337	Table of HELB piping at PINGP.
PROD00020338	Preliminary analysis of HELB in turbine building.
PROD00020339	Analysis related to CC/HELB SDP issue at PINGP.
PROD00020340	Component Cooling Piping Interaction with Turbine Building HELB Piping Significance Determination Process.
PROD00020341	2/16/2009 email from D. Warner to T. Verbout and others at Xcel regarding CC design issues.
PROD00020342	Memo addressing CC scenarios at PINGP.
PROD00020343	Questions related to CC scenarios at PINGP.
PROD00020344	Question and response regarding CC system at PINGP.
PROD00020345	1/20/2009 email from B. Horner to M. Loosbrock regarding valves in CC HELB issue at PINGP.
PROD00020346	Calculation of time to drain CC surge tank at PINGP.

Document Number	Description
PROD00020347	11/5/2008 NRC question response form regarding CC system at PINGP.
PROD00020348	Write-up by B. Slack of information contained in turbine building HELB calculations relevant to CC / HELB SDP.
PROD00020349	2/6/2009 email from B. Horner to J. Kempkes regarding CC piping interaction questions.
PROD00020350	2/6/2009 email from B. Horner to J. Kempkes regarding HELB / CC piping interactions at PINGP.
PROD00020351	2/10/2009 email from B. Horner to J. Ritter regarding HELB / CC piping interactions at PINGP.
PROD00020352	Calculation of draindown time for CC surge tank after CC rupture.
PROD00020353	Calculation of draindown time for CC surge tank after CC tubing rupture.
PROD00020354	Analysis including details about HELB / CC interaction in turbine building.
PROD00020355	3/8/2009 Memo from S. Northard to D. Malek regarding CC piping near HELB location.
PROD00020356	3/9/2009 Memo from S. Northard to D. Malek regarding CC piping near HELB location in turbine building.
PROD00020357	4/30/2009 Memo from K. Ryan to D. Malek regarding CC piping near HELB location in turbine building.
PROD00020358	4/30/2009 Memo from K. Ryan to D. Malek regarding CC piping near HELB location in turbine building.
PROD00020359	3/6/2009 Memo from S. Northard to B. Horner regarding CC piping near HELB location in turbine building.
PROD00020360	5/1/2010 action request identification regarding HELB event.
PROD00020361	CC / HELB SDP external resource costs.
PROD00020362	8/25/1985 work request for CC surge tank.
PROD00020363	5/1990 calculation sheet for simulated single failure in CC system at PINGP.
PROD00020364	7/17/2009 NRC question response form addressing CC surge tanks at PINGP.
PROD00020365	Operability recommendation for CC piping in turbine building.
PROD00020366	2/13/2009 letter from MPR to B. Horner regarding operation during postulated HELB in turbine building.
PROD00020367	50.59 screening for RMU flow to CC surge tank at PINGP.
PROD00020368	1/12/2009 email from M. Huting to M. Schimmel regarding action plan for turbine building HELB / CC SDP.
PROD00020369	4/14/2009 Turbine Building CC SDP Issue: RMU Success Path Continued Viability.
PROD00020370	1/9/2009 email from J. Ritter to B. Horner summarizing CC / HELB discussion with NRC.
PROD00020371	1/10/2006 PI manual titled Loss of Component Cooling
PROD00020372	3/17/2009 analysis of CC lines in turbine building by AES, Corp.
PROD00020373	3/17/2009 analysis of CC lines in turbine building.
PROD00020374	3/23/2009 External Design Document Suitability Review Checklist regarding pipe stress analysis.
PROD00020375	3/13/2009 evaluation of effects of jet impingement on CC piping in turbine building.
PROD00020376	3/13/2009 evaluation of effects of jet impingement on CC piping in turbine building.
PROD00020377	11/5/2008 NRC question response form regarding, inter alia, high energy pipes' interaction with CC system at turbine building.
PROD00020378	12/10/2003 PI procedure manual titled High Energy Line Break/Leak
PROD00020379	5/3/2008 simulator runs regarding HELB piping at PINGP.
PROD00020380	4/2009 report on HELB pipe failure rates for PINGP prepared by KNF Consulting Services
PROD00020381	CCHELB affect on opposite unit RMUP breakers including diagrams
PROD00020382	3/13/2009 Email from S. Roberto to D. Butwin re HELB/CC SDP Action

Document Number	Description
PROD00020383	3/12/2009 Report prepared by Advent - Prairie Island Turbine Building 695' Elevation HELB Temperature & Relative Humidity Sensitivity Study
PROD00020384	3/11/2009 Email from J. Ritter to W. Scholberg cc R Mella and others re Flooding Impact on 695' Level Turbine Due to a Unit 1 HELB Line Break
PROD00020385	3/2/2009 Email from J. Ritter to R. Mella, R. Whitlock with M. Brossart cc'd re RMU System equipment qualification summary info
PROD00020386	4/8/2009 Email from S. Roberto to R. Mella with R. Whitlock cc'd re Turbine building HELB / CC SDP update
PROD00020387	1/31/2007 Email from R. Hansen to D. Schiro with R. Mella & P. Zamarripa cc'd re Actions for design basis flood
PROD00020388	3/7/2006 Transformer External flood Evaluation at Elevation 698'0", Revision 1, prepared by Automated Engineering Services
PROD00020389	Root Cause Evaluation Charter: Potential Error in Flooding level for declaring a Site Area Emergency
PROD00020390	Report on Steps taken to achieve Mode 5 during a site flooding event
PROD00020391	1/26/2007 Email from M. Davis to M. Meyer with others cc'd re flooding EAL change
PROD00020392	4/10/2006 Email from P. Huffman to all PINGP management and supervisors re Flooding EAL final determination
PROD00020393	1/18/2006 Abnormal Procedure: Flood
PROD00020394	2/27/2006 Transformer External Flood Evaluation at Elevation 698'0", Revision 0, prepared by Automated Engineering Services
PROD00020395	3/1/2006 NRC Regulatory Conference on the Non-Conservative EAL for Flooding, Questions & Follow-up items
PROD00020396	3/2/2006 Email from S. Northard to multiple PINGP employees re NRC regulatory conference on the NON
PROD00020397	2/19/2006 Transformer External Flood Evaluation at Elevation 698'0", Final, prepared by Automated Engineering Services, marked up copy
PROD00020398	2/27/2006 Transformer External Flood Evaluation at Elevation 698'0", Final, prepared by Automated Engineering Services
PROD00020399	Report on Transformer Flooding Evaluation
PROD00020400	1/26/2007 Email from M. Meyer to M. Davis with R. Mella, R. Hansen & R. Zyduck cc'd re Flooding EAL change
PROD00020401	12/12/1972 letter from Atomic Energy Commission to A. Dienhart regarding Request for Additional Information on steam pipe break
PROD00020402	2/23/2009 Letter from D. Kettering to Engineering Department regarding change to corrective actions process
PROD00020403	Unit 2 Flood Levels Graph and extensive Chart
PROD00020404	Unit 2 Flood Levels Graph and Chart
PROD00020405	6/12/2009 letter from G. Hostetter to D. Potter regarding turbine building gothic model as developed and designed verified as of June 1, 2009 - PINGP Calculation Inputs to Turbine Building Gothic Model for HELB Analysis
PROD00020406	Evaluation to determine environmental effects of turbine HELB and Component Cooling line interactions with design break locations
PROD00020407	12/18/1972 Letter from Atomic Energy Commission to A. Dienhart regarding reactor power plant safety and pipe failures including rupture of feedwater line and documents attached thereto
PROD00020408	HELB Independent Review Outline

Document Number	Description
PROD00020409	Notes on internal flooding event as result of feedwater line break
PROD00020410	CAP/ Flooding Flow Chart
PROD00020411	6/2004 Focused Self Assessment of Internal Flooding Program (Final Report)
PROD00020412	Letter from Office of Nuclear Reactor Regulation to L. Gessick regarding status and future use of single failure criterion as a tool in the reactor safety review process
PROD00020413	2009 CC HELB Evaluation and flooding issues power point
PROD00020414	Flow Chart regarding Corrective Actions
PROD00020415	12/11/2001 Diagram of Feedwater Unit 1
PROD00020416	6/5/2009 Prairie Island Nuclear Generating Plant Component Cooling Water/ Turbine Building SDP Issue Risk Significance Summary of Xcel Energy Analysis Performed
PROD00020417	6/4/2004 email from R. Best to J. Ritter and others at Xcel regarding CC- HELB
PROD00020418	6/5/2009 Prairie Island Nuclear Generating Plant Component Cooling Water/ Turbine Building SDP Issue Risk Significance Summary of Xcel Analysis Performed
PROD00020419	5/20/2009 email from R. Best to D. Potter regarding CC piping locations
PROD00020420	email from R. Best to M. Huting and others at Xcel regarding turbine building gothic and cc-Help internal flooding
PROD00020421	Identification of CC Line Damage Mechanisms in Turbine Building- Outline
PROD00020422	6/5/2009 email from R. Best to D. Potter regarding feedwater HELB affecting CC
PROD00020423	5/19/2009 email from R. Best to R. Rohrer regarding comments and options regarding SDP
PROD00020424	6/5/2009 Prairie Island Nuclear Generating Plant Component Cooling Water / Turbine Building SDP Issue Risk Significance Summary of Xcel Energy Analysis Performed
PROD00020425	Prairie Island Nuclear Generating Plant Component Cooling Water/ Turbine Building SDP Issue Risk Significance Summary of Xcel Energy Energy Analysis is Performed
PROD00020426	5/25/2009 email from J. Ritter to R. Best and others at Xcel regarding environmental conditions in the turbine building following HELB
PROD00020427	Identification of CC Line Damage Mechanisms in Turbine Building : Outline
PROD00020428	6/5/2009 email from J. Ritter to D. Malek and R. Best regarding comments to CC-HELB report, round 3.
PROD00020429	6/5/2009 Prairie Island Nuclear Generating Plant Component Cooling Water/ Turbine Building SDP Issue Risk Analysis Summary of Xcel Analysis Performed
PROD00020430	6/5/2009 Prairie Island Nuclear Generating Plant Component Cooling Water/ Turbine Building SDP Issue Risk Analysis Summary of Xcel Analysis Performed
PROD00020431	Evaluation of Flooding Due to Turbine Building HELB: Outline
PROD00020432	Notes on inputs needed to assess effects of internal flooding event as a result of feedwater line break
PROD00020433	7/4/2009 email from J. Ritter to R. Rohrer regarding simulator exercise test run for flood impacts
PROD00020434	7/4/2009 email from J. Ritter to R. Rohrer regarding sensitivity cases performed to determine impact on flooding contribution to CC/HELB risk assessment
PROD00020435	Sensitivity Results with AFW Pump Room Flood Impacts on Equipment
PROD00020436	7/10/2009 email from B. Slack to D. Potter and others at Xcel regarding flooding mitigation options

Document Number	Description
PROD00020437	PINGP Calculation Inputs to Turbine Building Gothic Model for HELB Analysis
PROD00020438	6/2/2009 letter from E. Bird at MPR Associates Inc. to B. Slack regarding high energy line break configurations in turbine building with calculation of feedwater line velocity; finite element analysis of feedwater line HELB
PROD00020439	7/9/2009 email from B. Slack to J. Ritter regarding stress analysis on FW/ CC/ CL interaction
PROD00020440	5/26/2009 email from B. Slack to W. Scholberg regarding HELB / CL case definitions and interactions to be evaluated for the SDP
PROD00020441	7/8/2009 email from B. Slack to D. Potter regarding crack in valve of body regarding CC/HELB jet impingement issue
PROD00020442	Diagram of Feedwater Unit 1
PROD00020443	5/13/2009 Design Information Transmittal from B. Slack to G. Geaney regarding HELB Flood and high energy pipes
PROD00020444	5/13/2009 Design Information Transmittal from B. Slack to G. Geaney regarding HELB Flood high energy pipes
PROD00020445	3/20/2009 Calculation Sheet regarding evaluation of the effects of jet impingement on component cooling piping in the turbine building
PROD00020446	Documents related to "internal flooding" in the Prairie Island Licensing Basis
PROD00020447	Prairie Island CCHELB Direction Power Point
PROD00020448	Internal Flood Design Deficiencies document
PROD00020449	Prairie Island CCHELB / Flooding Program Direction power point presentation
PROD00020450	5/7/2009 email from M. Huting to M. Reddemann and R. Best and others at Xcel regarding HELB causing plastic deformation
PROD00020451	5/26/2009 email from M. Huting to D. Potter regarding flooding program reconstitution
PROD00020452	4/29/2009 letter from W. Djordjevic at Stevenson & Associates consulting engineering firm to R. Best regarding a proposal to assess and develop seismic and Tornado-induced flooding fragilities for turbine structures
PROD00020453	5/1/2009 email from M. Huting to B. Slack regarding an independent review of HELB work related to CCHELB SDP efforts
PROD00020454	5/4/2009 email from M. Huting to D. Potter regarding flooding analysis in Turbine building
PROD00020455	11/7/2005 US NRC Office of Nuclear Reactor Regulations document regarding safe potentially challenged by unanalyzed internal flooding events and inadequate design
PROD00020456	6/3/2009 email from M. Huting to R. Best and others at Xcel regarding Jet impingement
PROD00020457	5/20/2009 email from M. Huting to D. Potter regarding internal flood overall recovery layout
PROD00020458	7/22/2009 email from M. Huting to J. Anderson regarding management flooding update and schedule for regulatory recovery
PROD00020459	White Paper for CC HELB Outcome and Continued Efforts
PROD00020460	White Paper for CCHELB Outcome and Continued Efforts
PROD00020461	White Paper for CCHELB Outcome and Continued Efforts
PROD00020462	7/10/2009 letter from S. Kinsey to D. Potter regarding Proposal to Provide Engineering Support for Turbine Building Roll-up Door Modifications to address Potential Flooding Issues
PROD00020463	5/26/2009 email from S. Kinsey to M. Hopman regarding PINGP transient flooding spreadsheet and discussion of results on spreadsheet

Document Number	Description
PROD00020464	Prairie Island Nuclear Generating Plant Component Cooling Water / Turbine Building SDP Issue Risk Significance Summer of Xcel Energy Analysis Performed
PROD00020465	6/5/2009 Prairie Island Nuclear Generating Plant Component Cooling Water / Turbine Building SDP Issue Risk Significance Summer of Xcel Energy Analysis Performed
PROD00020466	6/5/2009 email from D. Malek to J. Ritter regarding CC-HELB Report and comments thereto
PROD00020467	6/5/2009 Prairie Island Nuclear Generating Plant Component Cooling Water / Turbine Building SDP Issue Risk Significance Summer of Xcel Energy Analysis Performed
PROD00020468	6/10/2009 email from D. Malek to D. Potter regarding timeline for analysis for CC-HELB
PROD00020469	6/10/2009 Summary of Xcel Discussion with NRC
PROD00020470	7/6/2009 email from D. Malek to D. Potter regarding simulator exercise to support CC-HELB
PROD00020471	6/18/2009 memorandum from D. Malek to K. Ryan regarding piping adjacent to HELB location in turbine building
PROD00020472	8/15/2006 document regarding plant flooding procedure
PROD00020473	7/6/2009 email from S. Northard to D. Potter regarding turbine building flooding analysis
PROD00020474	6/30/2009 Email from D. Potter to S. Ford re: contract mod work on 12 CL line
PROD00020475	Notice of 5/11/2009 meeting re: laying out a recovery path for internal flooding of the turbine building
PROD00020476	Diagram of 10" forced displacement of 12-CL-67 near 16" FW line
PROD00020477	Flow rates from postulated break sizes in CL system and Fire Protection sprinkler actuation.
PROD00020478	GOTHIC Control volumes corresponding to physical compartments/rooms in the plant.
PROD00020479	Mass of water in steam generators, condensate and feedwater piping system
PROD00020480	7/8/2009 Email from D. Potter to D. Malek re: time to trip circ water pumps for full 12 CL line break
PROD00020481	4/20/2009 PINGP Evaluation: Limiting Time for Operator Action to Mitigate Flooding Effects from a Postulated Feedwater Condensate System High Energy Line Break in Unit 1
PROD00020482	Various analyses of the effects of an internal flooding event as a result of a feedwater line break which targets the CC line have been rough drafted but not finalized and preliminary results have been reached.
PROD00020483	7/8/2009 Email from D. Potter to R. Rohrer re: the plastic hinge location on the feedwater pipe and possible affect on CC line
PROD00020484	Table showing Saturated H2O Properties
PROD00020485	Evaluation to determine environmental effects of a turbine HELB in support of the Significance Determine Process associated with the Component Cooling line interactions with design break locations from the feedwater system.
PROD00020486	5/26/2009 Email from D. Potter to C. Lethgo re: flow rate analysis of fire line breaks in the turbine building
PROD00020487	Notice of 5/15/2009 meeting to discuss the flow of information needed for internal flood support.
PROD00020488	5/21/2009 Email from D. Potter to C. Sansome re: update on CL HELB break preliminary results
PROD00020489	5/21/2009 Email from D. Potter to D. Potter re: discussion with management about proposal for CC-HELB expanded scope deliverable date to NRC
PROD00020490	6/10/2009 Email from D. Potter to D. Malke and R. Rohrer re: current schedule for internal flood recovery.
PROD00020491	6/5/2009 Email from D. Potter to W. Scholberg re: time it will take for a feedwater HELB causing 6" CL line break to cause issues

Document Number	Description
PROD00020492	6/12/2009 Email from D. Potter to B. Slack re: time to critical height due to flooding in the Unit 1 TB
PROD00020493	6/8/2009 email from D. Potter to D. Malke and others re: times to reach critical heights in safeguards rooms
PROD00020494	Preliminary data re: times to reach critical heights in safeguards rooms
PROD00020495	7/2/2006 email from D. Potter to T. Vogel re: turbine oil cooler nozzle loads due to a 10" forced displacement at point 135
PROD00020496	Table of Turbine Oil Cooler Nozzle Loads
PROD00020497	Blueprint/Drawing of Cooling Water 6" Single Support Assembly
PROD00020498	Blueprint/Drawing of Cooling Water 6" Single Rigid Hanger Assembly
PROD00020499	Blueprint/Drawing of (Turbine Room) Cooling Water 12" Single Rigid Hanger Assembly
PROD00020500	Blueprint/Drawing of Cooling Tower (Turbine Room) 12" Single Rigid Hanger Assembly
PROD00020501	Blueprint/Drawing of Cooling Water Turbine Room 12"x12"x10" Tee Limit Stop
PROD00020502	5/26/2009 Email from D. Potter to B. Slack re: GOTHIC installation discs
PROD00020503	7/7/2009 Email from D. Potter to B. Slack re: CC lines not affected by the terminal end break at the feedwater heater
PROD00020504	5/20/2009 Email from D. Potter to W. Scholberg re: inputs for flooding approved.
PROD00020505	Evaluation to provide input on flooding rates in the turbine building during certain postulated HELB events for the HELB Safety Determination Process.
PROD00020506	5/14/2009 Email from D. Potter to C. Sansome re: date to receive analysis on flow rates by Proto-Power.
PROD00020507	5/19/2009 Email from D. Potter to M. Huting re: whether a feedwater HELB will result in a safety injection signal making the CC system single failure proof.
PROD00020508	Flow chart laying out the elements required to recover the internal flooding program at PINGP.
PROD00020509	6/09/2009 Email from D. Potter to M. Huting re: major milestones of internal flood recovery to present to NRC
PROD00020510	Flow chart laying out the elements required to recover the internal flooding program at PINGP.
PROD00020511	5/26/2009 Email from D. Potter to S. Kinsey re: internal flooding analysis and other possible work for MPR on HELB issues
PROD00020512	6/30/2009 Email from D. Potter to M. Huting re: internal flooding modification proposals
PROD00020513	Notice of 6/8/2009 meeting re: overall recovery program for the internal flooding program.
PROD00020514	5/7/2009 Email from D. Potter to B. Slack re: jet impingement for subcooled systems.
PROD00020515	Analysis of jet impingement for subcooled systems
PROD00020516	5/26/2009 Email from D. Potter to S. Skoyen re: arranging for AES to perform a Jet Impingement analysis.
PROD00020517	5/12/2009 meeting to finish the internal discussion amongst Xcel Energy personnel resulting from the 5/11/09 conference call on CCHELB.
PROD00020518	5/14/2009 Email from D. Potter to B. Slack re: time estimate to receive various pipe whip analysis from MPR.
PROD00020519	5/26/2009 Email from D. Potter to B. Slack and W. Scholberg re: NRC considered a checkvalve failure to be a passive single failure
PROD00020520	NRC Information Report re: Single Failure Criterion
PROD00020521	5/01/2009 Email from D. Potter to M. Hugin re: evaluation of pipe whip
PROD00020522	Portion of Monticello Updated Safety Report re: evaluation of the effect of pipe whip on safe components and structures

Document Number	Description
PROD00020523	List: 1.6 References
PROD00020524	Quote re: unrestrained whipping pipe
PROD00020525	Quote re: whipping pipe
PROD00020526	List: 21. Nuclear Services Corporation, Topical Reports
PROD00020527	Quote: 1.5.2 Pipe Whip
PROD00020528	Calculations for Momentum flux, Momentum change, and Pressure force
PROD00020529	5/12/2009 Email from D. Potter to R. Rohrer and others re: talking points for CCHELB
PROD00020530	Prairie Island CCHELB Direction talking point slides
PROD00020531	7/8/2009 Email from D. Potter to B. Slack re: whether to include analysis of jet impingement from a valve body in CC/HELB analysis
PROD00020532	7/7/2009 Email from D. Potter to B. Slack re: whether to include analysis of jet impingement from a valve body in CC/HELB analysis
PROD00020533	6/5/2009 Email from D. Potter to D. Malek re: comments about draft CC-HELB report
PROD00020534	6/5/2009 Email from D. Patter to J. Ritter and others re: comments about draft CC-HELB report
PROD00020535	5/7/2009 Email from D. Potter to M. Huting re: comments about draft CC-HELB PowerPoint slides
PROD00020536	5/26/2009 Email from D. Potter to R. Jones re: check valve single failure criteria
PROD00020537	5/21/2009 Email from D. Potter to C. Sansome re: question of where to find system training documents and receipt of preliminary CL HELB break results from Proto-Power
PROD00020538	6/12/2009 Email from D. Potter to M. Hopman re: communication of Internal Flooding timelines
PROD00020539	6/30/2009 Email from D. Potter to S. Ford re: contract mod work
PROD00020540	5/26/2009 Email from D. Potter to W. Scholberg re: questions about flooding calculation inputs involving fire protection flows, D1/D2 trench, and check valves
PROD00020541	5/4/2009 Email from D. Potter to M. Huting re: 2004 Self Assessment about need for flooding analysis in turbine and auxiliary buildings
PROD00020542	5/20/2009 Email from D. Potter to M. Huting re: sump pump effectiveness against internal flooding
PROD00020543	7/1/2009 Email from D. Potter to M. Huting re: pursuing modifications against internal flooding
PROD00020544	6/8/2009 Email from D. Potter to M. Hopman re: internal flooding recovery strategy schedule first draft ready for NRC presentation
PROD00020545	5/19/2009 Email from D. Potter to C. Sansome re: Proto-Power flow rate analysis timeline.
PROD00020546	6/11/2009 Email from D. Potter to D. Malek re: summary of NRC CC/HELB conference call on 6/10/09 and assigned responders
PROD00020547	5/26/2009 Email from D. Potter to B. Slack and W. Scholberg re: application of single failure criteria to check valves
PROD00020548	5/27/2009 Email from D. Potter to B. Slack and W. Scholberg re: application of single failure criteria to check valves in HELB analysis
PROD00020549	5/26/2009 Email from D. Potter to W. Scholberg re: the difference between design and significance determinations when considering equipment failure and single failure criteria
PROD00020550	7/6/2009 Email from D. Potter to D. Malek re: CC/HELB Simulator Exercise

Document Number	Description
PROD00020551	5/7/2009 Email from D. Potter to R. Best re: meeting with NRC resident(s) about question regarding licensing basis for internal flooding.
PROD00020552	5/7/2009 Email from D. Potter to R. Best re: meeting with NRC resident(s) about question regarding licensing basis for internal flooding.
PROD00020553	6/3/2009 Email from D. Potter to D. Malek re: expected flow rate from sprinklers in Unit 1
PROD00020554	5/20/2009 Email from D. Potter to C. Koehler re: Turbine Building sump pumps
PROD00020555	5/20/2009 Email from D. Potter to C. Koehler re: Turbine Building sump pumps
PROD00020556	5/18/2009 Email from D. Potter to C. Sansome and K. DenHerder re: thoughts on flow rates on the CL system via open system inspections.
PROD00020557	5/18/2009 Email from D. Potter to K. DenHerder re: thoughts on flow rates on the CL system via open system inspections.
PROD00020558	5/18/2009 Email from D. Potter to K. DenHerder re: thoughts on flow rates on the CL system via open system inspections.
PROD00020559	6/11/2009 Email from D. Potter to W. Scholberg re: time to critical height due to flooding in Unit 1 Turbine Building.
PROD00020560	6/11/2009 Email from D. Potter to W. Scholberg re: time to critical height due to flooding in Unit 1 Turbine Building.
PROD00020561	7/5/2009 Email from D. Potter to T. Vogel re: Turbine Oil Cooler Nozzle Loads due to a 10" forced displacement at Point 135.
PROD00020562	Blueprint/Drawing of Feedwater Unit 1
PROD00020563	6/5/2009 Email from D. Potter to W. Scholberg re: mass flow on heat balance diagram found in USAR
PROD00020564	5/13/2009 Email from D. Potter to M. Schimmel re: SDP discussion with NRC about extending deadline for CCHELB evaluation.
PROD00020565	Outline of information needed to provide Evaluation of Flooding due to Turbine Building HELB
PROD00020566	Chart re: Break Up Stream of 15 FW Heater and 6/10/09 GOTHIC Table TB-base-TEMP over time
PROD00020567	7/08/2009 GOTHIC Table TB-base-RHUM over time
PROD00020568	5/18/2009 Email from D. Potter to K. DenHerder re: thoughts on flow rates on the CL system via open system inspections
PROD00020569	7/02/2009 Email from D. Potter to S. Northard and M. Schimmel re: brief description of analysis of turbine building flooding
PROD00020570	Notice of weekly recurring meetings re: Turbine Building Internal Flood Status and Direction
PROD00020571	Notice of 5/12/2009 meeting re: laying out a recovery path for internal flooding for the turbine building.
PROD00020572	7/2/2009 Email from R. Rohrer to D. Potter re: Turbine Oil Cooler Nozzle Loads due to a 10" forced displacement at Point 135
PROD00020573	5/20/2009 Chart entitled CC-HELB SDP Option 1
PROD00020574	5/20/2009 Chart entitled CC-HELB SDP Option 2
PROD00020575	6/1/2009 Email from R. Rohrer to J. Anderson and D. Potter re: milestones for internal flooding analysis
PROD00020576	6/1/2009 Email from R. Rohrer to R. Best and others re: milestones for internal flooding analysis
PROD00020577	5/20/2009 Chart entitled CC-HELB SDP Option 1

Document Number	Description
PROD00020578	5/20/2009 Chart entitled CC-HELB SDP Option 2
PROD00020579	5/13/2009 Email from R. Rohrer to D. Potter re: Prairie Island CCHELB Direction PowerPoint talking points
PROD00020580	8/19/2009 Email from G. Salamon to D. Potter and R. Rohrer re: Internal Flooding licensing basis white paper for NRC
PROD00020581	8/20/2009 Email from G. Salamon to D. Potter re: Internal Flooding licensing basis white paper
PROD00020582	NRC Inspection and Enforcement Manual Temporary Instruction 2515/88: Inspection of Licensee's Actions Taken to Implement NRC Guidelines for Protection from Flooding of Equipment Important to Safety
PROD00020583	8/19/2009 Email from G. Salamon to D. Potter re: Internal flooding licensing basis white paper
PROD00020584	8/19/2009 Email from G. Salamon to D. Potter re: Internal Flooding licensing basis white paper
PROD00020585	5/21/2009 Email from C. Sansome to D. Potter and others re: timeline for CL HELB break results from Proto-Power
PROD00020586	5/29/2009 Email from C. Sansome to D. Potter and others re: CL-HELB break flow analysis from Proto-Power completed.
PROD00020587	5/21/2009 Email from C. Sansome to D. Potter re: system training documents to be found on J drive or in Sharepoint
PROD00020588	ESP Systems P7540L course lists
PROD00020589	5/15/2009 Email from C. Sansome to D. Potter re: Internal Flooding volume contribution flow rate analysis results from Proto-Power
PROD00020590	5/19/2009 Email from C. Sansome to D. Potter re: Internal Flooding volume contribution Proto-Power timeline
PROD00020591	5/19/2009 Email from C. Sansome to D. Potter re: Internal Flooding volume contribution Proto-Power timeline
PROD00020592	5/28/2009 Email from C. Sansome to D. Potter and others re: summary of Proto-Power's preliminary results of analysis of CL system with the HELB breaks
PROD00020593	5/18/2009 Email from C. Sansome to K. DenHerder and D. Potter re: thoughts on flow rates on the CL system via open system inspections.
PROD00020594	5/18/2009 Email from C. Sansome to D. Potter and K. DenHerder re: thoughts on flow rates on the CL system via open system inspections.
PROD00020595	5/22/2009 Email from C. Sansome to D. Potter and others re: summary of Proto-Power's preliminary results of analysis of CL system with the HELB breaks.
PROD00020596	Scenarios of crack or break flows based on different base system alignment
PROD00020597	5/26/2009 Email from W. Scholberg to D. Potter re: new assignment making flooding calculations second priority
PROD00020598	12/18/1995 Calculation number ENG-ME-221 to determine the largest amount of liquid available to flood the Auxiliary Building.
PROD00020599	Prairie Island FW Break Flow, Project No: 08960-031, Calculation No: 1998-04320, page 48 Attachments re: pump performance curves, loss coefficients, cell formulae and miscellaneous references
PROD00020600	Prairie Island FW Break Flow, Project No: 08960-031, Calculation No: 1998-04320, Rev. 1, to determine the bounding volumetric flow rate and its associated event profile for an instantaneous circumferential line break in the feedwater system at either Unit 1 or Unit 2
PROD00020601	5/26/2009 Email from W. Scholberg to D. Potter re: need flooding calculation inputs for fire protection flows and D1/D2 ventilation trenches.

Document Number	Description
PROD00020602	8/5/2009 Email from W. Scholberg to M. Hopman and D. Potter re: MPR and GOTHIC model can be completed by the end of August.
PROD00020603	5/13/2009 Email from W. Scholberg to D. Potter re: draft version of an independent review of the Flooding evaluation.
PROD00020604	5/7/2009 Independent Review of Evaluation for Operator Response Times for Turbine Building Internal Flooding - PINGP
PROD00020605	5/6/2009 Email from W. Scholberg to D. Potter re: status update on review of draft evaluation limiting time for operator action to mitigate flooding
PROD00020606	Spreadsheets detailing Turbine Building flood level scenarios
PROD00020607	5/13/2009 Email from W. Scholberg to S. Kinsey re: draft version of an independent review of the flooding evaluation.
PROD00020608	5/26/2009 Email from W. Scholberg to D. Potter re: operability of D1/D2 generators if ventilation is lost due to flooding of the D1/D2 trench
PROD00020609	6/5/2009 Email from W. Scholberg to D. Potter re: time to flood to the top of the pit if feedwater HELB causes a full 6" CL line break
PROD00020610	5/26/2009 Email from W. Scholberg to D. Potter re: single failure criteria applied to passive checkvalve failure.
PROD00020611	5/26/2009 Email from W. Scholberg to D. Potter re: single failure criteria applied to passive checkvalve failure.
PROD00020612	1/11/1973 letter from US Atomic Energy Commission re: clarification of guidelines and criteria regarding a postulated break in a pipe carrying a high-energy fluid.
PROD00020613	1/18/1973 letter from Pioneer Service and Engineering Co re: minutes of meeting with AEC staff regarding high energy line rupture
PROD00020614	6/11/2009 Email from W. Scholberg to D. Potter and B. Slack re: time to critical height due to flooding in the Unit 1 Turbine Building
PROD00020615	6/12/2009 Email from W. Scholberg to D. Potter re: time to critical height due to flooding in the Unit 1 Turbine Building
PROD00020616	5/28/2009 Email from W. Scholberg to D. Potter re: desire for meaningful due dates to assigned Corrective Actions.
PROD00020617	List of Corrective Actions assigned to W. Scholberg
PROD00020618	5/28/2009 Email from W. Scholberg to D. Potter re: preparing the Design Interface Agreement for the MPR GOTHIC flooding analysis.
PROD00020619	Spreadsheets detailing Turbine Building flood level scenarios
PROD00020620	6/11/2009 Email from W. Scholberg to B. Slack re: table giving preliminary calculation of time to critical height due to flooding in the Unit 1 turbine building.
PROD00020621	3/16/2009 Email from J. Gehlhar to B. Horner, J. Ritter & R. Best re responses to questions about CC HELB
PROD00020622	4/6/2009 Email from R. Best to D. Malek & S. Skoyen w/ B. Horner & W. Hadeka cc'd re Action 48 & 48a in regard to HELB
PROD00020623	3/13/2009 Email from M. Smutny to D. Malke and others at PINGP re Actions 51 & 25b and planning for HELB event
PROD00020624	5/9/2009 Email from R. Best to S. Skoyen with others cc'd re Additional need for S&A evaluation of Gas House structure
PROD00020625	5/1/2009 Email from R. Best to M. Schimmel and others at PINGP re Agenda for management update on HELB SDP Issues

Document Number	Description
PROD00020626	PINGP CCHELB / Flooding Program Direction PowerPoint
PROD00020627	5/4/2009 Email from J. Grobbelaar with Curtiss-Wright to J. Ritter w/ R. Best & J. Julius cc'd re Charging pump cavitation
PROD00020628	2/20/2009 Request for Phased Approval: CC HELB interaction structural analysis
PROD00020629	1/6/2009 Significance Determination Process (SDP) Questions Component Cooling Line Interaction with HELB Piping in the Turbine Building
PROD00020630	3/13/2009 Email from R. Best to B. Horner with others cc'd re CC line to Gas House
PROD00020631	5/10/2009 Email from J. Ritter to D. Malek & R. Best re CC surge tank level calculation
PROD00020632	Report on 21 Component Cooling Water Surge Tank Level Trend
PROD00020633	3/12/2009 Email from J. Ritter to W. Hadeka with D. Malek & R. Best cc'd re CC/HELB action #48
PROD00020634	3/13/2009 Email from J. Ritter to T. Borgen with R. Best & D. Malek cc'd re CC/HELB Critical Operator Action: Realign AFW Suction from CST to Cooling Water (New Action related to #12)
PROD00020635	5/15/2009 Email from R. Best to M. Reddemann with others cc'd re CC-HELB current ICDP value, without internal flooding
PROD00020636	5/9/2009 Email from R. Best to J. Ritter & D. Malek re CC-HELB report outline
PROD00020637	2/26/2009 Email from J. Ritter to R. Best re CC/HELB Scenario Description
PROD00020638	3/19/2009 Email from J. Ritter to J. Grobbelaar with others cc'd re CC/HELB SDP - Additional Support for HEPs
PROD00020639	4/10/2009 observations and notes re: CC/HELB simulator run
PROD00020640	3/10/2009 memo from Dave Malek to Scott Northard re: CC piping adjacent to HELB and component cooling system
PROD00020641	5/17/2009 email from Randy Best to Jayne Ritter and others re: HELB and tornado event analysis
PROD00020642	4/9/2009 memo from Dave Malek to Kevin Ryan re: status of the turbine building and HELB piping and component cooling system
PROD00020643	3/5/2009 NRC request form re: during a HELB event there is a chance the fire protection system may be activated and what is the response?
PROD00020644	3/14/2009 email from Jayne Ritter to Kelli Gadiant re: risk impact of HELB piping and breakage
PROD00020645	HELB piping impact through the turbine building
PROD00020646	3/10/2009 email from Michael Staley to Jayne Ritter and others re: HELB event probability and safeguard discussion
PROD00020647	4/17/2009 memo from Randy Best to Dave Malek re: HELB frequency mitigation and response
PROD00020648	3/23/2009 email from Jayne Ritter to Karl Fleming and others re: susceptibility of HELB pipe breakage
PROD00020649	3/28/2009 memo from Jayne Ritter to Randy Best re: engineering discussion of HELB damper fire damper modification
PROD00020650	4/23/2009 memo from Dave Malek to Chris Lethgo re: fire protection during a HELB event
PROD00020651	undated memo to William Scholberg and others from Randy Best re: safeguards in case of flooding or tornado or seismic events
PROD00020652	memo about consequences and procedures immediately following a HELB in the turbine building
PROD00020653	3/27/2009 email from Dave Malek to Randy Best re: the fire safety system in the event of a HELB
PROD00020654	1/7/2009 email from Jayne Ritter to Randy Best re: risk reports and assessments in the event of a HELB event
PROD00020655	4/21/2009 email from Jon Anderson to Randy Best re: risk reports and assessments in the event of a HELB event

Document Number	Description
PROD00020656	3/20/2009 email from Ben Horner to Chris Koehler and others re: HELB safety from seismic tornado and missile events
PROD00020657	3/20/2009 email from Dave Malek to Randy Best re: HELB engineering and data analysis
PROD00020658	3/16/2009 email from Jayne Ritter to Randy Best and others re: HELB safety and susceptibility from seismic tornado and missile events
PROD00020659	3/23/2009 email from Randy Best to Mark Huting re: HELB safety and susceptibility from weather and missile events
PROD00020660	4/13/2009 email from Randy Best to Jayne Ritter re: HELB simulator notes and observations on safety and susceptibility from seismic tornado and missile events
PROD00020661	2/24/2009 email from Jayne Ritter to Jan Grobbelaar and others re: the HELB HRA Report and questions
PROD00020662	3/7/2009 email from Randy Best to Jan Grobbelaar re: HELB HRA report and test scenarios
PROD00020663	3/15/2009 email from Randy Best to Kelli Gadiant re: HELB HRA report and risk impact in the turbine building
PROD00020664	3/15/2009 email from Randy Best to Jeff LeClair and others re: HELB HRA report and risk impact in the turbine building
PROD00020665	3/19/2009 email from Randy Best to Jayne Ritter and others re: HELB calculations and risk impact for flooding
PROD00020666	12/22/2008 email from Randy Best to Charles Agan re: HELB pipe break calculations HELB and risk impact
PROD00020667	4/30/2009 report from Stevenson & Associates re: PING seismic capacity of component cooling system
PROD00020668	4/30/2009 report from Stevenson & Associates re: PING seismic capacity of component cooling system
PROD00020669	4/30/2009 report from Stevenson & Associates re: PING seismic and tornado capacity of component cooling system
PROD00020670	4/30/2009 report from Stevenson & Associates re: PING seismic and tornado capacity of component cooling system
PROD00020671	5/1/2009 report from Stevenson & Associates re: PING seismic and tornado capacity of component cooling system
PROD00020672	12/10/2003 PING safety procedures report for HELBs
PROD00020673	3/13/2009 email from Randy Best to Jayne Ritter re: HELB piping events and the effect of cold cooling lines
PROD00020674	3/11/2009 email from Randy Best to Jayne Ritter re: HELB piping events and the effect of cold cooling lines
PROD00020675	1/17/2009 email from Randy Best to Jayne Ritter re: HELB piping events and the effect of cold cooling lines
PROD00020676	2/26/2009 email from Jayne Ritter to Randy Best re: HELB piping events and the effect of cold cooling lines
PROD00020677	undated memo re: Component cooling piping in the turbine building is vulnerable to HELB
PROD00020678	2/26/2009 email from Jayne Ritter to Randy Best re: HELB pipe break frequency and procedures
PROD00020679	3/5/2009 email from Jayne Ritter to Randy Best re: HELB pipe break frequency and procedures
PROD00020680	Chart showing pipe failure rates and rupture frequencies
PROD00020681	5/7/2009 email from Randy Best to Jayne Ritter and others re: HELB analysis with tornadoes and seismic events
PROD00020682	2/19/2009 email from Dave Malek to Jan Grobbelaar and others re: HELB events with question and answer about operations and diagnosis
PROD00020683	2/21/2009 email from Dave Malek to Randy Best re: HELB events with question and answer about operations and diagnosis
PROD00020684	1/19/2009 email from Jayne Ritter to Randy Best and others re: HELB event discussion about risk and operations and diagnosis and procedures
PROD00020685	Chart listing risk and impact on line breaks from external events like tornadoes and floods

Document Number	Description
PROD00020686	12/22/2008 email from Randy Best to Charles Agan and others re: a summary of the HELB discussions with the NRC about pipe breakage calculations and frequency
PROD00020687	4/28/2009 email from Mike Hopman to Randy Best and others re: HELB discussions and impact from flooding on turbine building
PROD00020688	3/13/2009 email from Jayne Ritter to Randy Best re: HELB questions and discussion of impact from flooding on turbine building
PROD00020689	2/28/2009 email from Doug Smith to Randy Best re: HELB questions and discussion of impact from flooding on turbine building
PROD00020690	2/9/2009 email from Jayne Ritter to Randy Best re: HELB questions and discussion of impact from flooding on turbine building
PROD00020691	3/12/2009 memo from Dave Malek to Scott Northard re: the status of the cooling system and turbine building and HELB piping
PROD00020692	1/10/2009 from Randy Best to Jayne Riiter and others re: the status of the cooling system and turbine building and HELB piping
PROD00020693	5/8/2009 from Jayne Riiter to Randy Best re: the status of the cooling system and turbine building and HELB piping
PROD00020694	5/12/2009 email from Randy Best to Walter Djordjevic re: CC-HELB and tornado analysis and discussions with the NRC
PROD00020695	4/25/2009 email from Jayne Ritter to Dave Malek re: CC-HELB calculations and pipe break frequency
PROD00020696	Chart with HELB calculations and pipe break frequency
PROD00020697	HELB calculations and pipe break frequency
PROD00020698	6/26/2009 Email from T. Asmus to J. Ritter and others at Xcel re: HELB calculations flooding and pipe break frequency
PROD00020699	4/15/2009 email from Randy Best Jeff julius re: CC-HELB calculations and seismic or tornadic events
PROD00020700	9/29/2008 from Xcel to NRC re: loss of safety function on feedwater pump due to mispositioned isolation valve
PROD00020701	PING map analysis for CC/HELB
PROD00020702	5/9/2009 email from Jayne Ritter to John Olvera and others re: MAAP runs for HELB analysis
PROD00020703	3/5/2009 NRC question response form on fire during a HELB
PROD00020704	4/21/2009 email from Randy Best to Brian Slack re: HELB and pipe locations
PROD00020705	3/10/2009 email from Dennis Herling to Dave Malekre: operators response to HELB and fire alarms
PROD00020706	4/17/2009 Email from R. Best (home email account) to R. Best re Plan for Adding CL Piping Vulnerability to HELB
PROD00020707	4/28/2009 Email from R. Best to M. Hunting & D. Kettering re Impact of HELB Events on internal Flooding in Turbine Building
PROD00020708	4/9/2009 Email from E. Halverson to R. Best & J. Ritter re PRA Input to IA, Tornado Damper Design
PROD00020709	3/15/2009 Email from R. Best to J. LeClair & S. Zinkham re Determination of Risk Impact Due to Proposed Routing of IA Lines Through the Turbine Building
PROD00020710	3/31/2009 Email from J. Ritter to K. Gadiant et al. re Determination of Risk Impact Due to Proposed Routing of IA Lines Through the Turbine Building

Document Number	Description
PROD00020711	3/15/2009 Email from R. Best to K. Gadiant et al. re Determination of Risk Impact Due to Proposed Routing of IA Lines Through the Turbine Building
PROD00020712	1/17/2009 Email from P. Huffman to R. Best re PRA/HELB Considerations for PINGP IA Project
PROD00020713	5/8/2009 Email from J. Grobbelaar of Curtiss Wright to J. Ritter & R. Best re PINGP SDP Simulator Run Procedures
PROD00020714	5/11/2009 - Summary of Discussion with NRC related to CCHELB/Flooding Issue
PROD00020715	4/21/2009 Email from R. Best to J. Ritter re Update from Meeting with NRC Residents
PROD00020716	4/21/2009 Email from R. Best to J. Ritter re Update from Meeting with NRC Residents
PROD00020717	3/20/2009 Email from J. Ritter to J. Gehlhar et al re Responses to CC HELB Questions
PROD00020718	5/14/2009 Email from D. Potter to R. Best re Exclusions in the HELB Analysis
PROD00020719	5/27/2009 Memo from D. Malek to K. Ryan re Status of Turbine Building HELB / CC Piping Significant Determination Process
PROD00020720	4/14/2006 PINGP Abnormal Operating Procedure Manual for Fire Protection Line Break
PROD00020721	3/26/2009 NRC Question Response Form re Deaerating Steam Line
PROD00020722	3/5/2009 NRC Question Response Form re Fire Protection and HELB Events
PROD00020723	4/16/2009 Email from J. O'Farrill to R. Best re Agenda for NRC Conference Call
PROD00020724	4/16/2009 Email from R. Best to J. O'Farrill & D. Vincent re Agenda for NRC Conference Call
PROD00020725	4/16/2009 Agenda for NRC Conference Call on CC/HELB Issue
PROD00020726	2/28/2009 Email from J. Ritter to R. Best re Calculations related to VCT and CC
PROD00020727	5/4/2009 Email from J. Ritter to J. Grobbelaar re MAAP Report related to RCP Seal LOCA Event with Loss of CC
PROD00020728	5/5/2009 Email from R. Best to J. Grobbelaar & J. Ritter re MAAP Report related to RCP Seal LOCA Event with Loss of CC
PROD00020729	4/22/2009 Email from R. Best to J. Anderson re New CAP 011782356 and CC/HELB Issues
PROD00020730	1/6/2009 Email from J. Ritter to R. Best re Seismic Contributions to HELB in Turbine Building
PROD00020731	1/7/2009 Email from R. Best to J. Ritter re CC System Alarms and HELB
PROD00020732	Report re Component Cooling Water Surge Tank Level Trend for CC/HELB Analysis
PROD00020733	3/18/2009 Email from B. Horner to J. Ritter et al re CC System Capacity and HELB Events
PROD00020734	3/17/2009 Email from J. Ritter to J. Olvera, et al. re Discussions with Operations related to RCP Seal Event related to CC/HELB
PROD00020735	Documentation of All Interactions Between High Energy Piping and Cooling Water (CL) That Also Affect Component Cooling (CC)
PROD00020736	5/7/2009 Email from R. Best to M. Huting et al. re CC/HELB Meeting Agenda Review Comments
PROD00020737	PITCQ-089 - Job Performance Measure Worksheet - Emergency Tripping of RCP's Due to Loss of CC
PROD00020738	5/7/2009 Email from J. Ritter to R. Best et al. re CC/HELB Meeting Comments
PROD00020739	3/7/2009 Email from D. Smith to R. Best re CC/HELB Report Comments
PROD00020740	3/1/2009 Email from J. Ritter to J. Brobbelaar & R. Best et al. re CC/HELB Report Comments
PROD00020741	3/1/2009 Email from J. Grobbelaar to R. Best et al. re CC/HELB Report Comments
PROD00020742	3/1/2009 Email from J. Ritter to R. Best et al. re CC/HELB Report Comments

Document Number	Description
PROD00020743	2/28/2009 Email from J. Grobbelaar to R. Best et al. re CC/HELB HRA Report Comments
PROD00020744	2/24/2009 Email from J. Ritter to J. Grobbelaar re Comments on CC/HELB HRA Report
PROD00020745	2/26/2009 Email from J. Ritter to J. Grobbelaar re Comments on CC/HELB HRA Report
PROD00020746	2/24/2009 Email from J. Ritter to J. Grobbelaar re Comments on CC/HELB HRA Report
PROD00020747	Various Event Trees related to Operator Response to Loss of CC
PROD00020748	2/25/2009 Email from J. Ritter to J. Grobbelaar re Comments on CC/HELB HRA Report
PROD00020749	2/28/2009 Email from J. Ritter to J. Grobbelaar re Comments on CC/HELB HRA Report
PROD00020750	2/28/2009 Email from J. Ritter to J. Grobbelaar re Comments on CC/HELB HRA Report
PROD00020751	5/18/2009 Email from D. Malek to R. Best & J. Ritter re Loss of CC related to Tornado
PROD00020752	5/18/2009 Email from D. Malek to R. Best & J. Ritter re Loss of CC related to Tornado
PROD00020753	5/9/2009 Email from J. Ritter to R. Best re Mitigating Flooding related to HELB
PROD00020754	3/14/2009 Email from J. Ritter to K. Gadiant re Routing of IA Lines through Turbine Building and HELB Impact
PROD00020755	4/14/2009 Report: Turbine Building CC SDP Issue - RMU Success Path Continued Viability
PROD00020756	4/19/2009 Email from R. Best to W. Scholberg re Calculations related to HELB for SDP Analysis
PROD00020757	04/19/2009 Email from W. Scholberg to R. Best re Internal Flooding Evaluation Options
PROD00020758	5/15/2009 Draft Report - MAAP Analysis, RCP Seal LOCA With Loss of CCW
PROD00020759	Spreadsheet - Turbine Building HELB-Induced Loss of Component Cooling Water Event
PROD00020760	Spreadsheet - Various Calculations related to HELB Piping
PROD00020761	2/27/2009 Report - PINGP Component Cooling Water / Turbine Building Issue Risk Significance - Summary of Xcel Analysis Performed
PROD00020762	3/17/2009 Email from J. Ritter to K. Vincent & W. Scholberg re HELB Component Cooling and Flooding Evaluation
PROD00020763	3/17/2009 Email from S. Myers to J. Ritter et al. re HELB Component Cooling and Flooding Evaluation
PROD00020764	3/17/2009 Email from J. Ritter to W. Scholberg et al. re HELB Component Cooling and Flooding Evaluation
PROD00020765	3/2009 Draft Report - High Energy Line Break - Pipe Failure Rates for the Prairie Island PRA
PROD00020766	4/2009 Final Report - High Energy Line Break - Pipe Failure Rates for the Prairie Island PRA
PROD00020767	4/6/2009 Email from K. Fleming of Technology Insights to J. Ritter re Report - High Energy Line Break - Pipe Failure Rates for the Prairie Island PRA
PROD00020768	4/6/2009 Email from J. Ritter to K. Fleming of Technology Insights re Report - High Energy Line Break - Pipe Failure Rates for the Prairie Island PRA
PROD00020769	3/2009 Draft Report - High Energy Line Break - Pipe Failure Rates for the Prairie Island PRA
PROD00020770	4/3/2009 Email from K. Fleming of Technology Insights to J. Ritter re Report - High Energy Line Break - Pipe Failure Rates for the Prairie Island PRA
PROD00020771	4/3/2009 Email from J. Ritter to K. Fleming of Technology Insights re Report - High Energy Line Break - Pipe Failure Rates for the Prairie Island PRA
PROD00020772	3/2009 Draft Report - High Energy Line Break - Pipe Failure Rates for the Prairie Island PRA
PROD00020773	3/27/2009 Email from J. Ritter to K. Fleming of Technology Insights re Report - High Energy Line Break - Pipe Failure Rates for the Prairie Island PRA

Document Number	Description
PROD00020774	3/27/2009 Email from J. Ritter to K. Fleming of Technology Insights re Report - High Energy Line Break - Pipe Failure Rates for the Prairie Island PRA
PROD00020775	5/8/2009 Email from D. Malek to R. Best et al. re Calculations for CC/HELB Seismic and Tornado Report
PROD00020776	5/6/2009 Email from K. Kriesel to R. Best et al. re Calculations for CC/HELB Seismic and Tornado Report
PROD00020777	5/5/2009 Email from K. Kriesel to R. Best re Calculations for CC/HELB Seismic and Tornado Report
PROD00020778	5/8/2009 Email from R. Best to K. Kriesel re Calculations for CC/HELB Seismic and Tornado Report
PROD00020779	5/5/2009 Email from R. Best to K. Kriesel et al. re Calculations for CC/HELB Seismic and Tornado Report
PROD00020780	4/21/2009 Email from B. Slack to R. Best re FP / CL Piping
PROD00020781	4/21/2009 Email from B. Slack to R. Best re FP / CL Piping
PROD00020782	4/21/2009 Email from B. Slack to R. Best re FP / CL Piping
PROD00020783	4/21/2009 Email from R. Best to S. Myers re FP / CL Piping
PROD00020784	4/21/2009 Email from R. Best to B. Slack re FP / CL Piping
PROD00020785	4/21/2009 Email from R. Best to B. Slack re FP / CL Piping
PROD00020786	5/11/2009 Email from B. Slack to J. Ritter re HELB Flooding
PROD00020787	5/11/2009 Email from J. Ritter to B. Slack re HELB Flooding
PROD00020788	5/11/2009 Email from R. Rohrer to R. Best re HELB Flooding
PROD00020789	5/11/2009 Email from W. Scholberg to R. Best re HELB Flooding
PROD00020790	5/11/2009 Email from R. Best to B. Slack et al. re HELB Flooding
PROD00020791	Slideshow - Prairie Island CCHELB/Flooding Program Direction
PROD00020792	5/11/2009 Email from R. Best to R. Rohrer re HELB Flooding Meeting Agenda
PROD00020793	5/11/2009 Email from R. Best to R. Rohrer re HELB Flooding Meeting Agenda
PROD00020794	5/11/2009 email from R. Best to B. Slack et al. re HELB Flooding Concerns
PROD00020795	Spreadsheet - Pipe Break Calculations (Linear Foot Method)
PROD00020796	Report - Explanation of Calculations for Pipe Break Frequencies
PROD00020797	Instructions for Simulation Exercise related to HELB Event
PROD00020798	2/25/2009 Email from R. Best to J. Ritter re HRA Report - SDP Comments
PROD00020799	5/8/2009 Email from M. Milad to J. Ritter re IA Modifications and Additions of Check Valves to Mitigate HELB Issues
PROD00020800	2/24/2009 Email from D. Smith to R. Best re Independent Review of Time Critical operator Actions for Flooding Issue
PROD00020801	2/24/2009 Email from R. Best to D. Smith re Independent Review of Time Critical Operator Actions for Flooding Issue
PROD00020802	2/24/2009 Email from R. Best to W. Scholberg & M. Smutny re Independent Review of Time Critical operator Actions for Flooding Issue
PROD00020803	5/25/2009 Email from R. Best to J. Ritter re Information Needed for NRC Calculation of CC/HELB SDP Event
PROD00020804	5/9/2009 Email from J. Ritter to R. Best & D. Malek re LER for SFP HX - CC Condition
PROD00020805	3/10/2009 Email from J. Ritter to J. Olvera & R. Best re MAAP Runs for SI Pump Continuous Operation on CC/HELB Event Seal LOCA
PROD00020806	3/9/2009 Email from J. Olvera to J. Ritter & R. Best re MAAP Runs for SI Pump Continuous Operation on CC/HELB Event Seal LOCA

Document Number	Description
PROD00020807	3/8/2009 Email from J. Ritter to J. Olvera & R. Best re MAAP Runs for SI Pump Continuous Operation on CC/HELB Event Seal LOCA
PROD00020808	3/8/2009 Email from J. Ritter to J. Olvera & R. Best re MAAP Runs for SI Pump Continuous Operation on CC/HELB Event Seal LOCA
PROD00020809	3/10/2009 Email from J. Olvera to J. Ritter & R. Best re MAAP Runs for SI Pump Continuous Operation on CC/HELB Event Seal LOCA
PROD00020810	3/4/2009 Email from J. Ritter to J. Olvera re MAAP Runs for SI Pump Continuous Operation on CC/HELB Event Seal LOCA
PROD00020811	3/4/2009 Email from J. Ritter to J. Olvera & R. Best re MAAP Runs for SI Pump Continuous Operation on CC/HELB Event Seal LOCA
PROD00020812	3/3/2009 Email from J. Ritter to J. Olvera & R. Best re MAAP Runs for SI Pump Continuous Operation on CC/HELB Event Seal LOCA
PROD00020813	3/11/2009 Email from R. Best to J. Olvera & J. Ritter re MAAP Runs for SI Pump Continuous Operation on CC/HELB Event Seal LOCA
PROD00020814	3/8/2009 Email from R. Best to J. Ritter & D. Malek re MAAP Runs for SI Pump Continuous Operation on CC/HELB Event Seal LOCA
PROD00020815	3/10/2009 Email from R. Best to J. Olvera & J. Ritter re MAAP Runs for SI Pump Continuous Operation on CC/HELB Event Seal LOCA
PROD00020816	03/22/2009 Email from D.Vincent to R.Best and J.Ritter cc: S.Myers and other excel employees re discussion of the removal of line MS-35 the HELB initiating event frequency calculation
PROD00020817	04/09/2009 Email from J.Ritter to D.Malek and R.Best re discussion about the adverse effects of HELB on FW and CD pumps.
PROD00020818	04/29/2009 Email from J.Ritter to J.Olivera cc: P.Knoespel and R.Best re Discussion about HELB SDP and operator responses to high pressure levels
PROD00020819	Note re: SI pump subcomponent
PROD00020820	Note re: SI pump related to cooling water system date unknown author unknown
PROD00020821	04/29/2009 Email from J.Olivera to J.Ritter cc P.Knoespel and R.Best re MAAP runs for CC/HELB SDP - case 2. Note discussion of HELB and SI pump start up in the MAAP modeling.
PROD00020822	04/29/2009 Email from J.Ritter to J.Olivera cc P.Knoespel and R.Best re: MAAP runs for CC/HELB SDP - Case 2. Discussion of need to open a valve.
PROD00020823	4/28/2009 Email from J. Olivera to R. Best cc J. Ritter and other Xcel employees re: MAAP runs for CC/HELB SDP - Case 2
PROD00020824	4/28/2009 Report on the results of failure simulation modeling for Normal Feedwater, component cooling water and emergency coolant losses
PROD00020825	06/05/2005 Author unknown. Simulation software report re PWR severe accident analysis code results.
PROD00020826	04/28/2009 PWR severe accident analysis simulation report. Note the modeling of HELB and of a loss of coolant component water.

Document Number	Description
PROD00020827	04/28/2009 Author unknown re: PWR severe accident analysis code results report
PROD00020828	04/28/2009 Author unknown re: PWR severe accident analysis code results report
PROD00020829	04/27/2009 Email from J.Olivera to R.Best Re MAAP system component failure simulation runs for CC/HELB analyses
PROD00020830	04/13/2009 Email from R.Best to J.Olivera and J.Ritter cc D.Malek Re: MAAP runs for CC/HELB SDP - HRA case evaluations where worst case will support sump recirculation
PROD00020831	05/24/2009 Email from J.Ritter to R.Best cc D.Malek re NRC meeting and discussion of FW pipe-whip HELB and seismic interactions issues
PROD00020832	05/14/2009 Email from J.Ritter to R.Best cc D.Malek re NRC meeting and HELB pipe interactions criteria and DBE earthquake/seismic modeling
PROD00020833	05/15/2009 Email from R.Best to J.Ritter cc D.Malek re NRC Meeting and FW pipe HELB pipe interactions modeling
PROD00020834	05/14/2009 Email from R.Best to J.Ritter cc D.Malek Re NRC Meeting and discussion of HELB pipe interactions, flooding and earthquake/seismic modeling
PROD00020835	05/14/2009 Email from R.Best to J.Ritter cc D.Malek re NRC meeting and discussion of SDP process with respect to HELB design criteria and earthquakes
PROD00020836	04/21/2009 email from D.Malek to W.Hadeka and other excel employees cc R.Best and other excel employees re NRC question and discussion of the cc-HELB-SDP and vendor agreement with xcel's sump pump MPR analysis
PROD00020837	04/20/2009 email from W.Hadeka to D.Malek and other excel employees cc R.Best and other excel employees re NRC question and discussion of the cc-HELB-SDP and vendor agreement with xcel's sump pump MPR analysis
PROD00020838	04/22/2009 email from R.Best to W.Hadeka re NRC question and discussion of the cc-HELB-SDP and vendor agreement with xcel's sump pump MPR analysis
PROD00020839	05/21/2009 Email from J.Ritter to R.Best and T.Bacon re review of operator action to start a pump
PROD00020840	05/21/2009 Email from T.Bacon to R.Best Re review of operator action to start a pump
PROD00020841	05/21/2009 Email from R.Best to T.Bacon cc J.Ritter Re review of operator action to start a pump
PROD00020842	03/13/2009 Email from D.Malek to M.Smutney cc R.Best Re review of expected operator responses to fire alarms associated with a high energy line break
PROD00020843	03/13/2009 Email from M.Smutney to D.Malek cc R.Best Re review of expected operator responses to fire alarms associated with a high energy line break
PROD00020844	03/11/2009 Email from J.Anderson to R.Best and D.Herling Re review of expected operator responses to fire alarms associated with a high energy line break event
PROD00020845	03/11/2009 Email from D.Herling to R.Best and D.Malek cc T.Bacon and other excel employees Re review of expected operator responses to fire alarms associated with a high energy line break event
PROD00020846	03/11/2009 Email from R.Best to D.Herling and D.Malek cc T.Bacon and other excel employees review of expected operator responses to fire alarms associated with a high energy line break event
PROD00020847	03/11/2009 Email from R.Best to D.Herling and D.Malek Re review of expected operator responses to fire alarms associated with a high energy line break event

Document Number	Description
PROD00020848	05/06/2009 J.Grobbelaar analyst-report author - simulator report finding that operators fail to diagnose loss of CC, isolate letdown and reduce charging flow in response to a high energy line break (HELB) initiating event -operator training
PROD00020849	05/04/2009 J.Grobbelaar analyst-report author - simulator report finding that operators fail to diagnose loss of CC, isolate letdown and reduce charging flow in response to a high energy line break (HELB) initiating event - operator training
PROD00020850	04/22/2009 Simulator CC/HELB Scenario - related to operator training
PROD00020851	05/06/2009 Simulator CC/HELB Scenario - related to operator training
PROD00020852	05/05/2009 Email from R.Best to J.Grobbelaar cc J.Julius Re PI SDP simulator runs.
PROD00020853	05/04/2009 J. Grobbelaar analyst. Report re HELB initiating event simulation results and probable operator training report. Operators fail to diagnose loss of CC, isolate letdown and reduce charging flow to minimum.
PROD00020854	05/01/2009 Email from J.Ritter to J.Grobbelaar and J.Grobbelaar cc R.Best, D.Malek and J.Julius Re PI SDP simulator runs discussing HELB event large break flow and predicted flooding effects on the turbine building and the component cooling system
PROD00020855	04/28/2009 Email from J.Grobbelaar to J.Ritter cc R.Best and J.Julius Re PI SDP simulator runs discussing HELB event large break flow and predicted flooding effects on the turbine building and the component cooling system
PROD00020856	01/05/2009 Email from R.Best to J.Ritter and B.Homer cc L.Johnson and M.Brossart re potential NRC question and discussion on the effect of an HELB pipe break in the Turbine building and its impact on the CC line
PROD00020857	03/11/2009 Email from J.Ritter to R.Best Re discussion about HELB piping that could impact the CC lines
PROD00020858	04/13/2009 Email from E.Halverson to E.Halverson R.Best and J.Ritter cc M.Brossart and J.LeClair re PRA input and discussion about design impacts on HELB and tornado dampers in the turbine building.
PROD00020859	04/13/2009 Email from E.Halverson to R.Best and J.Ritter cc M.Brossart and J.LeClair Re PRA input discussion about tornado dampers, fire dampers and HELB dampers on the turbine building.
PROD00020860	01/18/2009 Email from R.Best to P.Huffman cc R.Roher and other excel employees re discussion of inclusion of HELB events occurring in the turbine building are already included in the current PRA design. Further discussion about further analysis needed.
PROD00020861	02/02/2009 Email from J.Ritter to M.Wadley and other Excel employees Re Prairie Island CC/HELB SDP analysis
PROD00020862	02/01/2009 Email from M.Wadley to J.Ritter and other Excel employees Re Prairie Island CC/HELB SDP analysis
PROD00020863	02/02/2009 Email from M.Wadley to J.Ritter and other Excel employees Re Prairie Island CC/HELB SDP analysis
PROD00020864	Email from J.Ritter to D.Malek and R.Best re discussion of tornado events
PROD00020865	05/14/2009 Email from J.Ritter to D.Malek and R.Best re discussion about tornadic and HELB events
PROD00020866	05/14/2009 Email from D.Malek to J.Ritter and R.Best re discussion of tornado and HELB initiating events
PROD00020867	05/14/2009 Email from J.Ritter to D.Malek and R.Best re preliminary results from analysis of tornadic and HELB initiated events.
PROD00020868	05/14/2009 Email from R.Best to D.Malek and J.Ritter re preliminary results from analysis of tornadic and HELB initiated events

Document Number	Description
PROD00020869	05/09/2009 Email from J.Ritter to R.Best and M.Milad re discussion about resolution of high energy line break issues and check valves
PROD00020870	05/08/2009 Email from M.Milad to R.Best re discussion about resolution of high energy line break issues and check valves
PROD00020871	05/09/2009 Email from R.Best to M.Milad re discussion about resolution of high energy line break issues and check valves
PROD00020872	05/09/2009 Email from R.Best to M.Milad re discussion about resolution of high energy line break issues and check valves
PROD00020873	03/15/2009 Email from R.Bets to J.Ritter and K.Gadient cc J.LeClair and S.Zinkham re Discussion about proposed ventilation scheme in the IA Modification plan and Tornado, fire and HELB dampers.
PROD00020874	03/06/2009 Prairie Island Nuclear Generating Plant document re human reliability analysis calculations
PROD00020875	04/22/2009 Email from S.Myers to R.Best and other Excel employees Re FP flow rate calculations and identification of a location near feedwater pumps where a break may impact both a CL and FP line. Also discussion o Turbine Building HELP-induced flooding calculations and an SDP evaluation
PROD00020876	06/04/2009 Email from D.Malek to J.Ritter cc R.Best re review of quantification notebook. Note mention of HELB and Tornadic events in comments
PROD00020877	06/03/2009 Email from D.Malek to D.Best cc J.Ritter re review of quantification notebook. Note mention of analysis of HELB and Tornadic events in comments
PROD00020878	06/02/2009 Email from D.Malek to D.Best cc J.Ritter re review of quantification notebook. Note mention of analysis of HELB and Tornadic events in comments
PROD00020879	05/08/2009 Email from S.Skoyen to R.Best re discussion of analyses of Gas House block wall susceptibility to HELB and tornadic events
PROD00020880	05/07/2009 Email from B.Horner to R.Best re discussion of analyses of Gas House block wall susceptibility to HELB and tornadic events
PROD00020881	05/07/2009 Email from B.Horner to R.Best cc L.Johnson re discussion of analyses of Gas House block wall susceptibility to HELB and tornadic events
PROD00020882	05/08/2009 Email from R.Best to S.Skoyen cc D.Malek re discussion of analyses of Gas House block wall susceptibility to HELB and tornadic events
PROD00020883	05/08/2009 Email from R.Best to B.Homer cc J.Ritter and other excel employees re discussion of analyses of Gas House block wall susceptibility to HELB and tornadic events
PROD00020884	05/07/2009 Email from R.Best to B.Homer re discussion of analyses of Gas House block wall susceptibility to HELB and tornadic events
PROD00020885	03/06/2009 Email from D.Malek to R.Best re SDP Actions and discussion about a seismic analysis in the turbine building location
PROD00020886	03/06/2009 Email from D.Malek to R.Best re SDP Actions and discussion about a seismic analysis in the turbine building

Document Number	Description
PROD00020887	03/06/2009 Email from D.Malek to R.Best re SDP Actions and discussion about a seismic analysis in the turbine building
PROD00020888	03/06/2009 Email from J.Ritter to J.Ritter, D.Malek and R.Best re SDP Actions and discussion about a seismic analysis in the turbine building
PROD00020889	03/05/2009 Email from J.Ritter to D.Malek and R.Best re SDP Actions and discussion about a seismic analysis in the turbine building
PROD00020890	Date unknown author unknown external event analysis project document re assignment of tasks for HELB, tornado and seismic event analyses.
PROD00020891	03/06/2009 Email from R.Best to D.Malek re SDP Actions and discussion about a seismic analysis in the turbine building
PROD00020892	03/06/2009 Email from R.Best to J.Ritter and D.Malek re SDP Actions and discussion about a seismic analysis in the turbine building
PROD00020893	03/06/2009 Email from R.Best to J.Ritter and D.Malek re SDP Actions and discussion about a seismic analysis in the turbine building
PROD00020894	03/06/2009 Email from R.Best to J.Ritter re SDP Actions and discussion about a seismic analysis in the turbine building
PROD00020895	03/09/2009 Email from J.Ritter to R.Best re SDP discussion with NRC official J.Geisner about NRC concerns that operations does not have ownership and the importance of operations demonstrate ownership in the SDP evaluation
PROD00020896	03/09/2009 Email from D.Malek to R.Best re SDP discussion with NRC official J.Geisner about NRC concerns that operations does not have ownership and the importance of operations demonstrate ownership in the SDP evaluation
PROD00020897	02/06/2009 Email from R.Best to J.Ritter and other excel employees cc S.Skoyen and other excel employees re information about the impact of seismic HELB initiating event on cc piping
PROD00020898	02/06/2009 Email from R.Roher to J.Ritter and other excel employees cc S.Skoyen and other excel employees re information about the impact of seismic HELB initiating event on cc piping
PROD00020899	03/10/2009 Email from D.Malek to R.Best cc J.Ritter re contractor support for CC/HELB-Seismic Portion analysis - walk downs
PROD00020900	03/10/2009 Email from D.Malek to R.Best cc J.Ritter re contractor support for CC/HELB-Seismic Portion analysis - walk downs
PROD00020901	03/10/2009 Email from J/Ritter to D.Malek and R.Best re contractor support for CC/HELB-Seismic Portion analysis - walk downs
PROD00020902	03/10/2009 Email from D.Malek to R.Best cc J.Ritter re contractor support for CC/HELB-Seismic Portion analysis - walk downs
PROD00020903	03/10/2009 Email from D.Malek to R.Best cc J.Ritter re contractor support for CC/HELB-Seismic Portion analysis - walk downs
PROD00020904	03/10/2009 Email from D.Malek to R.Best cc J.Ritter re contractor support for CC/HELB-Seismic Portion analysis - walk downs
PROD00020905	03/10/2009 Email from R.Best to D.Malek re contractor support for CC/HELB-Seismic Portion analysis - walk downs

Document Number	Description
PROD00020906	03/10/2009 Email from R.Best to J.Ritter and D.Malek re contractor support for CC/HELB-Seismic Portion analysis - walk downs
PROD00020907	05/19/2009 Email from B.Slack to J.Ritter and R.Best re CC-HELB damage risk assessment
PROD00020908	05/18/2009 Email from J.Ritter to B.Slack and R.Best re CC-HELB damage risk assessment
PROD00020909	05/18/2009 Email from J.Ritter to R.Best re CC-HELB team meeting - alarm activation criteria
PROD00020910	05/18/2009 Email from R.Best to J.Ritter re CC-HELB team meeting - alarm activation criteria and operator responses
PROD00020911	03/10/2009 Email from M.Staley to J.Ritter and other excel employees Discussion about the results of a walk down to determine HELB piping impact on a proposed IA line and discussion
PROD00020912	03/06/2009 Email from J.Ritter to R.Best and other excel employees cc M.Staley re PRA discussion about the results of a walk down to determine HELB piping impact on a proposed IA line
PROD00020913	03/06/2009 Email from R.Best to J.LeClair cc J.Ritter re PRA discussion about HELB concerns
PROD00020914	03/06/2009 Email from R.Best to J.LeClair cc J.Ritter re PRA discussion about HELB concerns
PROD00020915	03/18/2009 Email from B.Slack to J.Ritter and other excel employees cc D.Malek and other excel employees re potential HELB turbine building flooding evaluation
PROD00020916	03/18/2009 Email from J.Ritter to B.Slack and other excel employees cc D.Malek and other excel employees re potential HELB turbine building flooding evaluation
PROD00020917	Date unknown Email from unknown sender to unknown recipient cc S.Myers and other excel employees re Turbine building flooding and break flow calculations
PROD00020918	02/09/2009 Email from D.Malek to J.Ritter and R.Best cc T.Asmus re Turbine building HELB / CC piping interactions
PROD00020919	02/09/2009 Email from R.Best to J.Ritter re Turbine building HELB / CC piping interactions
PROD00020920	02/09/2009 Email from R.Best to J.Ritter re Turbine building HELB / CC piping interactions
PROD00020921	04/14/2009 B.Slack EC 13974 document re analyzes the effects of HELB jet infringement on turbine building cc piping
PROD00020922	4/20/2009 Memo from D.Malek to K.Ryan re status of the turbine building HELB / CC piping significant determination process
PROD00020923	03/12/2009 email from J.Ritter to B.Slack and other excel employees cc D.Malek and other excel employees re Turbine building HELB / CC SDP update to add a new piping section to the SDP
PROD00020924	03/12/2009 email from J.Ritter to B.Slack and other excel employees cc D.Malek and R.Best re New piping piece is added to calculations for the turbine building HELB / CC SDP.
PROD00020925	05/08/2009 Email from J.Grobbelaar to J.Ritter and R.Best re HEP data updated to include tornado simulation/data
PROD00020926	5/27/2009 analysis re: Identification and definition of HELB events and general safety at PINGP
PROD00020927	5/27/2009 analysis re: Identification and definition of HELB events and general safety at PINGP
PROD00020928	5/27/2009 PINGP document re: analysis and identification and definition of seismic and HELB events
PROD00020929	5/27/2009 PINGP document re: analysis and identification and definition of seismic and HELB events
PROD00020930	5/26/2009 PINGP document re: analysis and identification and definition of seismic and HELB events
PROD00020931	5/26/2009 PINGP document re: analysis and identification and definition of seismic and HELB events
PROD00020932	6/2/2009 email from Dave Malek to Jayne Ritter and others re: HELB breaks and frequency calculations
PROD00020933	5/30/2009 email from Jayne Ritter to Dave Malek and others re: HELB breaks and frequency calculations

Document Number	Description
PROD00020934	5/29/2009 email from Dave Malek to Jayne Ritter and others re: HELB breaks and frequency calculations
PROD00020935	5/29/2009 email from Jayne Ritter to Dave Malek and others re: HELB breaks and frequency calculations
PROD00020936	5/31/2009 email from Randy Best to Dave Malek and others re: HELB breaks and frequency calculations
PROD00020937	5/30/2009 email from Randy Best to Dave Malek and others re: HELB breaks and frequency calculations
PROD00020938	5/29/2009 email from Randy Best to Dave Malek and others re: HELB breaks and frequency calculations
PROD00020939	undated memo from Mark Huting re: the continuing effort to mitigate HELB events
PROD00020940	12/23/2008 email from Randy Best to Jayne Ritter re: HELB events and damper designs
PROD00020941	4/21/2009 email from Randy Best Sonja Myers and others re: HELB events and flooding effects on the turbine building
PROD00020942	5/27/2009 report re: the HELB pipe break frequency calculations
PROD00020943	3/16/2009 email from Randy Best to Ben Horner re: the functionality of several systems after HELB events
PROD00020944	4/17/2009 report re: a summary of open issues/problems at PINGP
PROD00020945	3/25/2009 email from Randy Best to David Kettering re: effects of seismic and tornado events on the turbine building
PROD00020946	3/16/2009 email from Jayne Ritter to Randy Best re: the functionality of several systems after HELB events
PROD00020947	4/10/2009 email from Randy Best to Ryan Cox re: potential HELB lines that could rupture
PROD00020948	3/11/2009 memo from Dave Malek to Scott Northard re: the CC piping adjacent to the HELB location in the turbine building
PROD00020949	3/4/2009 memo from Ben Horner to Scott Northard re: the CC piping adjacent to the HELB location in the turbine building
PROD00020950	2/12/2009 memo from Ben Horner to Scott Northard re: the CC piping adjacent to the HELB location in the turbine building
PROD00020951	1/13/2009 memo from Ben Horner to Scott Northard re: the CC piping adjacent to the HELB location in the turbine building
PROD00020952	1/12/2009 memo from Ben Horner to Scott Northard re: the CC piping adjacent to the HELB location in the turbine building
PROD00020953	5/4/2009 report re: HELB pipe break frequency calculations
PROD00020954	5/23/2009 report re: PING identification and definition of safety issues
PROD00020955	5/30/2009 email from Jayne Ritter to Dave Malek re: HELB designs calculations and safety
PROD00020956	undated report re: the HELB pipe break frequency calculation
PROD00020957	3/16/2009 email from Jayne Ritter to Mark Smutney and others re: the impact of flooding on the unit 1 turbine building
PROD00020958	4/17/2009 Memo from D. Malek to K. Ryan re CAP01145695, CC Piping adjacent to HELB location in turbine bldg
PROD00020959	4/19/2009 Memo from D. Malek to K. Ryan re CAP01145695, CC Piping adjacent to HELB location in turbine bldg, Revision 2
PROD00020960	5/15/2009 CC-HELB Team Meeting Summary
PROD00020961	Report on CC/HELB SDP issues
PROD00020962	5/2/2000 PINGP Calculation Cover Sheet: HCLPF Capacity Evaluation of CC Heat Exchangers
PROD00020963	4/27/2009 Loss of Turbine Building CC Lines Flowchart
PROD00020964	4/2/2008 Abnormal Procedure: Earthquakes, Revision 26

Document Number	Description
PROD00020965	1/5/2009 PINGP Assessment Report on Component Cooling Piping in the Turbine Building prepared by Automated Engineering Services
PROD00020966	4/3/2009 Turbine Building CC Lines SDP Response
PROD00020967	4/2009 Turbine Building CC Lines SDP Response, NRC Update Conference Call Agenda
PROD00020968	4/22/2009 Action Request Record Report: CC piping adjacent to HELB location in turbine bldg
PROD00020969	4/20/2009 Action Request Record Report: No HELB flooding calculation for Turbine building
PROD00020970	CC/HELB Frequency Summary Spreadsheet
PROD00020971	CC/HELB SDP External Resource Costs Spreadsheet
PROD00020972	CC-CL-HELB Combo IEs Spreadsheet
PROD00020973	Proposed Xcel Position Statements Relative to the CC-HELB SDP Evaluation
PROD00020974	CC-HELB SDP Option 1 Draft A
PROD00020975	Prairie Island CCHELB/Flooding Program Direction PowerPoint
PROD00020976	Prairie Island CCHELB/Flooding Program Direction PowerPoint
PROD00020977	HELB Flooding Walkdown Notes Spreadsheet
PROD00020978	Notes on Discussions with Residents re CAPs related to HELBs
PROD00020979	4/17/2009 Draft Plan to Incorporate CL-HELB into CC-HELB SDP Evaluation
PROD00020980	3/2009 High Energy Line Break Pipe Failure Rates for the Prairie Island PRA: Draft Report, prepared by K. Fleming & B. Lydell with KNF Consulting Services
PROD00020981	NRC Requests for Additional Information
PROD00020982	External Events Assessment: Effect of External Events on Risk Informed / Risk Impact Assessment for Extending Containment Type A Test Interval
PROD00020983	4/15/2004 PINGP Calculation: Water Volume Used by the AFWPS Following a Seismic Event or Tornado
PROD00020984	6/3/2005 PINGP Calculation: Effects of Flooding in the AFW Pump Room from a Postulated Pipe Rupture
PROD00020985	12/10/2003 Plant Safety procedures: High Energy Line Break / Leak, Revision 8
PROD00020986	12/1/1992 EDG Exhaust Air Piping Missile Protection
PROD00020987	1/5/2009 Letter from A. Setlur with Automated Engineering Services to S. Ford re Transmittal of Assessment Report on CC Piping in the TB to HELB Events
PROD00020988	3/9/2009 Notes on Discussion with J. Geissner with the NRC on CC/HELB SDP Issue
PROD00020989	3/9/2009 Notes of Discussion with Jack Geissner with NRC on CC/HELB SDP Issue, with management update 4/3/2009
PROD00020990	3/9/2009 Notes of Discussion with Jack Geissner with NRC on CC/HELB SDP Issue, with management update 4/16/2009
PROD00020991	3/9/2009 Notes of Discussion with Jack Geissner with NRC on CC/HELB SDP Issue, with NRC update 4/16/2009
PROD00020992	HELB Pipe Break Frequency - N2 Lines
PROD00020993	HELB Pipe Break Frequency Spreadsheet - N2 Lines
PROD00020994	1/29/2009 Basic Event Summary: 0BRCPSTOPXY, Operator Fails to Stop RCP's Following a Loss of Component Cooling and Seal Injection

Document Number	Description
PROD00020995	1/22/2009 Human Reliability Analysis Operator Interviews
PROD00020996	9/17/1999 NSP's Response to Request for Additional Information Regarding Report NSPLMI-96001, Individual Plant Examination of External Events (IPEEE), Related to Generic Letter 88-20
PROD00020997	3/27/2009 NRC Question Response Form re: location of 12-MS-35
PROD00020998	8/12/1999 R. Kennedy, "Overview of Methods for Seismic PRA and Margin Analysis Including Recent Innovations," <i>Proceedings of the OECD-NEA Workshop on Seismic Risk, Tokyo Japan.</i>
PROD00020999	5/1/2009 CC-HELB SDP Activities Update
PROD00021000	5/15/2009 Management update re CC HELB "proper" (excluding internal flooding)
PROD00021001	Discussion on new CAP on HELB-Induced internal flooding
PROD00021002	5/1/2009 Notes on morning call
PROD00021003	5/8/2009 Notes on morning call
PROD00021004	5/22/2009 Notes on morning call
PROD00021005	5/29/2009 Notes on morning call
PROD00021006	3/5/2009 Notes on NRC Conference Call - CC-HELB SDB Evaluation
PROD00021007	2/10/2009 USNRC Integrated Inspection Report
PROD00021008	5/6/2009 Letter from M. Satorius with NRC to M. Wadley re Final Significance Determination of White Finding and Notice of Violation; NRC Inspection Report no. 05000282/2009008; 05000306/2009008
PROD00021009	1/28/2009 NRC Question Response Form: question re length and diameters of piping, Revision 1
PROD00021010	2/12/2009 Progress Report on Release 996-59 - Analysis of CC/FW/CF Lines in Turbine Building
PROD00021011	4/16/2009 Agenda for Discussion with NRC on CC/HELB SDP Issue
PROD00021012	2/27/2009 PINGP Component Cooling Water / Turbine Building Issue Risk Significance Summary of Xcel Analysis Performed
PROD00021013	2/27/2009 PINGP Component Cooling Water / Turbine Building Issue Risk Significance Summary of Xcel Analysis Performed with JR comments
PROD00021014	5/28/2009 PINGP Component Cooling Water / Turbine Building Issue Risk Significance: Summary of Xcel Analysis Performed, Revision 0
PROD00021015	5/28/2009 PINGP Component Cooling Water / Turbine Building Issue Risk Significance: Summary of Xcel Analysis Performed, Revision 1
PROD00021016	5/28/2009 PINGP Component Cooling Water / Turbine Building Issue Risk Significance: Summary of Xcel Analysis Performed, Revision 2
PROD00021017	3/1/2009 PINGP Component Cooling Water / Turbine Building Issue Risk Significance: Summary of Xcel Analysis Performed
PROD00021018	3/1/2009 PINGP Component Cooling Water / Turbine Building Issue Risk Significance: Summary of Xcel Analysis Performed, Revision 1
PROD00021019	3/1/2009 PINGP Component Cooling Water / Turbine Building Issue Risk Significance: Summary of Xcel Analysis Performed, Revision 2

Document Number	Description
PROD00021020	3/1/2009 PINGP Component Cooling Water / Turbine Building Issue Risk Significance: Summary of Xcel Analysis Performed, Revision 3
PROD00021021	3/1/2009 PINGP Component Cooling Water / Turbine Building Issue Risk Significance: Summary of Xcel Analysis Performed, Revision 3x
PROD00021022	3/1/2009 PINGP Component Cooling Water / Turbine Building Issue Risk Significance: Summary of Xcel Analysis Performed, Revision 4
PROD00021023	3/1/2009 PINGP Component Cooling Water / Turbine Building Issue Risk Significance: Summary of Xcel Analysis Performed, Revision 5
PROD00021024	3/1/2009 PINGP Component Cooling Water / Turbine Building Issue Risk Significance: Summary of Xcel Analysis Performed, Revision 6
PROD00021025	2/25/2009 EPRI HRA Calculator 4.0
PROD00021026	4/30/2009 Plan to address HELB flooding issues
PROD00021027	5/22/2009 Summary of Discussion with NRC
PROD00021028	4/17/2009 NRC Question Response Form re high temperature seals installation date
PROD00021029	3/9/2009 NRC Question Response Form re operations' response to fire alarm during a HELB event
PROD00021030	4/24/2009 Memo from R. Best to W. Djordjevic with Stevenson & Assoc. re RFP to Support Prairie Island Turbine Building Systems Seismic Risk Analysis
PROD00021031	Request for Proposal to Support Prairie Island Turbine Building Systems Seismic Risk Analysis
PROD00021032	4/24/2009 Memo from R. Best to W. Djordjevic with Stevenson & Assoc. re RFP to Support Prairie Island Turbine Building Systems Seismic Risk Analysis
PROD00021033	4/14/2009 Turbine Building CC SDP Issue RMU Success Path Continued Viability
PROD00021034	4/10/2009 Prairie Island NGP 10,000 Year Return Period Earthquake Uniform Hazard Spectrum, prepared by Stevenson & Assoc.
PROD00021035	4/10/2009 PI Seismic & Tornado Fragilities: Seismic Capacity of Reactor Make-Up Water Storage Tank, prepared by Stevenson & Assoc.
PROD00021036	4/8/2009 PI Seismic & Tornado Fragilities: Seismic Capacity of Tank CST 11, prepared by Stevenson & Assoc.
PROD00021037	4/10/2009 PI Seismic & Tornado Fragilities: Seismic Capacity of Gas House Blow-out Panel, prepared by Stevenson & Assoc.
PROD00021038	4/30/2009 PI Seismic & Tornado Fragilities: Seismic Capacity of Component Cooling Piping, prepared by Stevenson & Assoc.
PROD00021039	4/10/2009 PI Seismic & Tornado Fragilities: Wind Capacity of Gas House Blow-out Panel, prepared by Stevenson & Assoc.
PROD00021040	4/28/2009 PI Seismic & Tornado Fragilities: Wind Capacity of Tank CST 11, prepared by Stevenson & Assoc.
PROD00021041	4/28/2009 PI Seismic & Tornado Fragilities: Wind Capacity of Turbine Building Siding near Component Cooling Piping, prepared by Stevenson & Assoc.
PROD00021042	5/14/2009 PI Seismic & Tornado Fragilities: Development of Final Probability of Failure Curves and Parameters, prepared by Stevenson & Assoc.

Document Number	Description
PROD00021043	5/18/2009 PI Seismic & Tornado Fragilities: Seismic and Wind Capacities of Gas House, prepared by Stevenson & Assoc.
PROD00021044	5/2009 External Event Fragilities for Component Cooling System in Turbine Building (Draft), prepared by Stevenson & Assoc.
PROD00021045	5/2009 External Event Fragilities for Component Cooling System in Turbine Building (Draft), prepared by Stevenson & Assoc.
PROD00021046	5/2009 External Event Fragilities for Component Cooling System in Turbine Building, Rev. 0, prepared by Stevenson & Assoc.
PROD00021047	3/19/2009 Letter from W. Djordjevic with Stevenson & Assoc. to R. Best re Proposal to Assess and Develop Seismic and Tornado Fragilities for Selected Prairie Island Turbine Building Structures, Systems and Components (SSCs)
PROD00021048	4/29/2009 Letter from W. Djordjevic with Stevenson & Assoc. to R. Best re Proposal to Assess and Develop Seismic and Tornado-induced Flooding Fragilities for Selected Prairie Island Turbine Building Structures, Systems and Components (SSCs)
PROD00021049	Collection of Pictures of Piping near Component Storage Tank
PROD00021050	3/25/2009 Engineering Walkdown Report, Draft, prepared by Stevenson & Assoc.
PROD00021051	Outline of Identification of CC Line Damage Mechanisms (in the Turbine Building)
PROD00021052	Notes on Options for CC-HELB / HELB Induced Flooding SDP Issues
PROD00021053	Safeguards Chilled Water System Seismic Adequacy, Rev. 2
PROD00021054	Significance Determination Process (SDP) Phase 2: Prairie Island Unit 2: CAP 01145695: "CC Piping Adjacent to HELB Location in Turbine Building"
PROD00021055	4/3/2009 Turbine Building CC Lines SDP Response: Management Update Conference Call Agenda
PROD00021056	Seismic CDF from SMA: Annual Probability of Exceedance for Peak Ground Acceleration
PROD00021057	4/2/2009 Loss of Turbine Building CC Lines
PROD00021058	3/17/2009 Loss of Turbine Building CC Lines Flowchart
PROD00021059	4/1/2009 Loss of Turbine Building CC Lines Flowchart
PROD00021060	4/1/2009 Loss of Turbine Building CC Lines Flowchart
PROD00021061	4/1/2009 Loss of Turbine Building CC Lines Flowchart
PROD00021062	Tornado Analysis of Turbine and Auxiliary Buildings Phase 2, prepared by Stephenson & Assoc.
PROD00021063	Blueprint for desired locations for ultrasonic flow meters
PROD00021064	3/20/2009 Report on Remove CC dependency for SI and RHR System Fault Trees
PROD00021065	5/26/2009 V.SPA.08.008, Addendum 2 - SDP Quantification
PROD00021066	V.SPA.08.008, Addendum 11 CC-HELB SDP Event Trees
PROD00021067	Report on interactions between high energy piping and cooling water (CL) that also affects component cooling (CC)
PROD00021068	5/11/2009 CCHELB/Flooding Program Direction PowerPoint
PROD00021069	3/20/2009 Program Engineering: Significance Determination Process: Issue Status Report
PROD00021070	3/20/2009 Program Engineering: Significance Determination Process: Issue Status Report: Summary of Open Issues
PROD00021071	4/3/2009 Program Engineering: Significance Determination Process: Issue Status Report: Summary of Open Issues

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PROD00021072	4/10/2009 Program Engineering: Significance Determination Process: Issue Status Report: Summary of Open Issues
PROD00021073	4/17/2009 Program Engineering: Significance Determination Process: Issue Status Report: Summary of Open Issues
PROD00021074	4/17/2009 Program Engineering Significance Determination Process: Issue Status Report: Summary of Open Issues
PROD00021075	4/24/2009 Program Engineering Significance Determination Process: Issue Status Report: Summary of Open Issues
PROD00021076	4/30/2009 Program Engineering Significance Determination Process: Issue Status Report: Summary of Open Issues
PROD00021077	5/15/2009 Program Engineering Significance Determination Process: Issue Status Report: Summary of Open Issues
PROD00021078	5/15/2009 Program Engineering Significance Determination Process: Issue Status Report: Summary of Open Issues
PROD00021079	5/22/2009 Program Engineering Significance Determination Process: Issue Status Report: Summary of Open Issues
PROD00021080	5/29/2009 Program Engineering Significance Determination Process: Issue Status Report: Summary of Open Issues
PROD00021081	2/9/2009 email from R Rohrer to S Myers cc M Huling re CC piping in the turbine building
PROD00021082	List of issues related to inoperability of 11 AFW pump and Human Error Probability that was calculated for recovery of it
PROD00021083	Control Room Evacuation (Fire) Procedure rev 40 effective date 9/12/2008
PROD00021084	Job Performance Measure: F5 Appendix B, Attachment A - Unit 1 Shift Supervisor Actions rev 6
PROD00021085	Preliminary Scoping Analysis for Fire Risk with 11 AFW pump Unavailable for 10 Days
PROD00021086	Fire Area 20 Ignition Source Bin - 11AFW pump was sole means of decay heat removal
PROD00021087	Information relative to all fire areas where 11AFW pump was sole means of decay heat removal
PROD00021088	Significance Determination Process (SDP) Phase 3 for CAP 01132098 "11 AFW pump stopped due to turbine bearing high temp" and CAP 01146006 "Mispositioned block valve on 11 TDAFWP" and attachments
PROD00021089	Workbook containing baseline cutset results for the PINGP, Revision 2.2 PRA model and cutset results for the 11 TDAFW Pump unavailability using the PINGP, Revision 2.2 PRA model
PROD00021090	Restarting Unit 1AFWP After Low Suction/Discharge Pressure Trip Procedure rev 3
PROD00021091	Heat Sink Rev 4 and Background Information for 1F-0.3 Heat Sink Status Tree
PROD00021092	Response to Loss of Secondary Heat Sink Rev 14 effective 1/11/2008
PROD00021093	Transfer to Recirculation with one Safeguard Train Out of Service Rev 15
PROD00021094	Alarm Response Procedure for Feedwater Pump Rev 41
PROD00021095	Control Room Panel spreadsheet
PROD00021096	Fire Hazard Analysis Procedure Rev 21 effective date 3/1/2008
PROD00021097	5/7/2001 blueprint/diagram of Cable Tray System - Ground Floor Plan AFW Pump Room - Class I Area Fire Area 31 and 32
PROD00021098	5/7/1998 blueprint/diagram of Cable Tray System - Ground Floor Plan AFW Pump Room - Class I Area Fire Area 31 and 32 rev 0
PROD00021099	Fire Significance Determination Process (SDP) Phase 1 and 2 CAP 01132098 "11 AFW Pump Stopped Due to Turbine Outboard Bearing High Temp"
PROD00021100	Fire Significance Determination Process (SDP) Phase 1 and 2 CAP 01132098 "11 AFW Pump Stopped Due to Turbine Outboard Bearing High Temp"
PROD00021101	1/20/2006 NRC letter to PINGP re PINGP Event Follow-up Inspection Report

Document Number	Description
PROD00021102	12/1/2008 Letter from T Greene (MPR Associates Inc) to G Wheelock (Xcel) re Prairie Island Unit One - Turbine-Driven Auxiliary Feedwater Pump Assessment of High-Temperature Operation of the Outboard Turbine Bearing
PROD00021103	Blueprint/diagram of Flow Diagram Unit 1 Feedwater System
PROD00021104	Blueprint/diagram of General Arrangement Unit 1 & 2 Control Room
PROD00021105	7/27/1994 Blueprint/diagram of Main Control Board panel A-1 Arrangement
PROD00021106	10/21/1993 Blueprint/diagram of Main Control Board panel A-1 & A-2 Arrangement
PROD00021107	5/7/1992 Blueprint/diagram of Main Control Board Panel A-2 Arrangement
PROD00021108	Blueprint/diagram of Unit 1 Main Control Board Panel E-1 Arrangement Sheet 1 of 2
PROD00021109	Blueprint/diagram of Main Control Board Panel E-1 Arrangement Sheet 2 of 2
PROD00021110	6/21/1991 Blueprint/diagram of Main Control Board Panel F-1 Arrangement
PROD00021111	Blueprint/diagram of Main Control Board panel E-2
PROD00021112	Blueprint/diagram of Main Control Board G Panel - Units 1 and 2 General Arrangement
PROD00021113	Blueprint/diagram of Cable Tray System Ground Floor Plan Turbine Room Class I Area
PROD00021114	10/27/1969 Blueprint/diagram of Cable Tray System- Sections Turbine Room Class I Area
PROD00021115	Blueprint/diagram of Conduit Layout - Ground Floor Area Unit 1 Turbine Building
PROD00021116	Blueprint/diagram of Conduit Layout Ground Floor Columns E to G and 8 to 10
PROD00021117	11/2/1994 Blueprint/diagram of Main Control Board Modification Panel B=1 Arrangement
PROD00021118	11/19/1984 Blueprint/diagram of Main Control Board Modification Panel C-1 Arrangement
PROD00021119	Blueprint/diagram of Main Control Board Modification Panel D-1 Arrangements
PROD00021120	11/7/2008 NRC letter to PINGP re PINGP NRC Special Inspection Report Preliminary White Finding
PROD00021121	1/20/2006 NRC letter to PINGP re PINGP Event Follow-up Inspection Report
PROD00021122	Preliminary Scoping Analysis for Fire Risk with 11 AFW pump Unavailable for 10 Days
PROD00021123	12/17/2008 NRC Question Response Form re control room heat-up following loss of safeguards chilled water
PROD00021124	12/17/2008 NRC Question Response Form re AFW pump and relay room analysis
PROD00021125	12/18/2008 NRC Question Response Form re basis for HRA timing values for local TDAFW pump operation
PROD00021126	12/17/2008 NRC Question Response Form re effect Performance Shaping Factors have on local AFW pump operation
PROD00021127	Significance Determination Process (SDP) Phase 3 for CAP 01132098 "11 AFW pump stopped due to turbine bearing high temp" and CAP 01146005 "Mispositioned block valve on 11 TDAFWP" and attachments
PROD00021128	Significance Determination Process (SDP) Phase 3 for CAP 01132098 "11 AFW pump stopped due to turbine bearing high temp" and CAP 01146006 "Mispositioned block valve on 11 TDAFWP" and attachments
PROD00021129	Significance Determination Process (SDP) Phase 3 for CAP 01132098 "11 AFW pump stopped due to turbine bearing high temp" and CAP 01146006 "Mispositioned block valve on 11 TDAFWP" and attachments
PROD00021130	Significance Determination Process (SDP) Phase 3 for CAP 01132098 "11 AFW pump stopped due to turbine bearing high temp" and CAP 01146005 "Mispositioned block valve on 11 TDAFWP" and attachments
PROD00021131	Significance Determination Process (SDP) Phase 3 for CAP 01132098 "11 AFW pump stopped due to turbine bearing high temp" and CAP 01146005 "Mispositioned block valve on 11 TDAFWP" and attachments

Document Number	Description
PROD00021132	Significance Determination Process (SDP) Phase 3 for CAP 01132098 "11 AFW pump stopped due to turbine bearing high temp" and CAP 01146005 "Mispositioned block valve on 11 TDAFWP" and attachments
PROD00021133	Significance Determination Process (SDP) Phase 3 for CAP 01132098 "11 AFW pump stopped due to turbine bearing high temp" and CAP 01146005 "Mispositioned block valve on 11 TDAFWP" and attachments
PROD00021134	Significance Determination Process (SDP) Phase 3 for CAP 01132098 "11 AFW pump stopped due to turbine bearing high temp" and CAP 01146005 "Mispositioned block valve on 11 TDAFWP" and attachments
PROD00021135	Significance Determination Process (SDP) Phase 3 for CAP 01132098 "11 AFW pump stopped due to turbine bearing high temp" and CAP 01146005 "Mispositioned block valve on 11 TDAFWP" and attachments
PROD00021136	Significance Determination Process (SDP) Phase 3 for CAP 01132098 "11 AFW pump stopped due to turbine bearing high temp" and CAP 01146006 "Mispositioned block valve on 11 TDAFWP" and attachments
PROD00021137	Significance Determination Process (SDP) Phase 3 for CAP 01132098 "11 AFW pump stopped due to turbine bearing high temp" and CAP 01146006 "Mispositioned block valve on 11 TDAFWP" and attachments
PROD00021138	Report on actions and timeline before determination 11 or 22 AFW pumps are running following control room abandonment
PROD00021139	V.SPA.08.002 11 TDAFW Pump SDP Analysis
PROD00021140	1975 Fluor Pioneer Inc documents re Pump Suction Line Unit 1 including Pipe-Stress Input Data
PROD00021141	9/12/1975 Unit 1 - PI Feedwater Discharge and Piping Loads on Equipment
PROD00021142	PI Unit 1 FW Discharge Dead Weight Analysis and Pipe-Stress Input Data
PROD00021143	8/14/1975 Fluor Pioneer Inc Pipe-Stress Deadweight Analysis
PROD00021144	Write-up of information contained within AES turbine building HELB calculations relevant to CC / HELB SDP
PROD00021145	2/24/2009 Design Information Transmittal re CC piping location relative to HELB locations for evaluation of jet impingement
PROD00021146	2/25/2009 Design Information Transmittal re Peak HELB pressure for evaluation of the cold chemistry lab
PROD00021147	2/25/2009 Design Information Transmittal re Peak HELB pressure for evaluation of the cold chemistry lab
PROD00021148	3/10/2009 Design Information Transmittal re CC piping location relative to HELB locations for evaluation of jet impingement
PROD00021149	3/9/2009 Design Information Transmittal re Evaluation of jet impingement on CC piping
PROD00021150	3/9/2009 Design Information Transmittal re CC piping location relative to HELB locations for evaluation of jet impingement
PROD00021151	3/10/2009 Design Information Transmittal re CC piping location relative to HELB locations for evaluation of jet impingement
PROD00021152	12/29/2008 Letter from A Setlur (Automated Engineering Services Corp) to S Ford (Xcel) re Proposal to Perform Evaluation of Vulnerability of CC Piping in TB to HELB Events - Phase 1
PROD00021153	1/12/2009 Letter from A Setlur (Automated Engineering Services Corp) to S Ford (Xcel) re Seismic Level Evaluation of FW, CD and CC in the TB
PROD00021154	1/18/2009 Letter from A Setlur (Automated Engineering Services Corp) to B Slack (Xcel) re Proposal to Qualify Cold Chem Lab Masonry Block Walls and Roof for HELB and Seismic Loads

Document Number	Description
PROD00021155	2/12/2009 Letter from A Setlur (Automated Engineering Services Corp) to B Slack (Xcel) re Proposal to Perform Safety Related Evaluation of the Effects of Jet Impingement on CC Piping in the Turbine Building (TB) at PINGP
PROD00021156	3/4/2009 Letter from A Setlur (Automated Engineering Services Corp) to B Slack (Xcel) re Request for Scope Change Funding for Evaluation of FW, CD and CC in the TB - PO 996-59
PROD00021157	3/20/2009 Calculation Package for Evaluation of the Effects of Jet Impingement on Component Cooling Piping in the Turbine Building and attachments
PROD00021158	3/13/2009 Calculation Package for Evaluation of the Effects of Jet Impingement on Component Cooling Piping in the Turbine Building and attachments
PROD00021159	6/26/2009 Calculation Package for Jet Impingement Loads on Component Cooling Piping in the Turbine Building for PRA HELB Scenarios
PROD00021160	2/20/2009 Request for Phased Approval re CC HELB interaction structural analysis
PROD00021161	2/3/2009 Request for Phased Approval re CC HELB interaction structural analysis
PROD00021162	blueprint/diagrams of component cooling water system
PROD00021163	blueprint/diagrams of component cooling water system
PROD00021164	6/17/2009 email from B Slack to D Henry cc C Kandalepas and D Setlur re jet impingement analysis on CC Piping
PROD00021165	3/21/1975 blueprint/diagram of component cooling water/sample system cooling water from DP 5 & 2
PROD00021166	blueprint/diagram of component cooling water system/sample system cooling water from DP-2
PROD00021167	4/4/1975 blueprint/diagram of component cooling water system/generator cooling return
PROD00021168	3/21/1975 blueprint/diagram Component Cooling Water System/Sample System Cooling Water From DP 2 and 5, Unit 2
PROD00021169	4/4/1975 blueprint/diagram Component Cooling Water System/C-C Water Return to H2 Generator
PROD00021170	10/9/1973 blueprint/diagram Component Cooling Water System/From Cold Sample Cond. Rack to 3" RE-T Crossover
PROD00021171	9/25/1973 blueprint/diagram Component Cooling Water System/From Cold Sample Cond. Rack to 3" RE-T Crossover
PROD00021172	1/3/1974 blueprint/diagram Component Cooling Water System/From Cold Sample Cond. Rack to 3" RE-T Crossover
PROD00021173	3/21/1975 blueprint/diagram Component Cooling Water System/From Cold Sample Cond. Rack to 3" Return Crossover
PROD00021174	3/21/1975 blueprint/diagram Component Cooling Water System/From Turbine Cycle & Grab Sample to 2" Return Line
PROD00021175	3/26/1973 blueprint/diagram Component Cooling Water System/Relief Valve (Cold Chem Lab) Vent & Drain (2" Return Line)
PROD00021176	3/21/1975 blueprint/diagram Component Cooling Water System/Cooling Water Return From Cold Chem Lab Chiller Unit
PROD00021177	3/21/1975 blueprint/diagram Component Cooling Water System/Comp. Cooling from Manifold & Pump Assembly 22
PROD00021178	blueprint/diagram Component Cooling Water System/Comp. Cooling from Manifold & Pump Assembly 25
PROD00021179	9/10/1974 blueprint/diagram Component Cooling Water System/H2 Generator Cooling Return
PROD00021180	blueprint/diagram Component Cooling Water System/Sample System Cooling to DP-5
PROD00021181	3/21/1975 blueprint/diagram Component Cooling Water System/Sample System Cooling Water Supply to Unit 2
PROD00021182	blueprint/diagram Component Cooling Water System/Sample System Cooling Water to DP-2
PROD00021183	4/4/1975 blueprint/diagram Component Cooling Water System/Component Cooling Water to H2 Generator

Document Number	Description
PROD00021184	4/4/1975 blueprint/diagram Component Cooling Water System/C-C Water Supply to H2 Generator
PROD00021185	4/4/1975 blueprint/diagram Component Cooling Water System/C-C Water Supply to H2 Generator
PROD00021186	8/24/1973 blueprint/diagram Component Cooling Water System/From 3" Supply Line to Cold Chem Lab
PROD00021187	6/25/1973 blueprint/diagram Component Cooling Water System/From 3" Supply Line to Cold Chem Lab
PROD00021188	3/21/1975 blueprint/diagram Component Cooling Water System/From 3" Supply Line to Cold Chemical Laboratory
PROD00021189	3/21/1975 blueprint/diagram Component Cooling Water System/From 2" Supply Line to Turbine Cycle & Grab Sample Panel
PROD00021190	3/21/1975 blueprint/diagram Component Cooling Water System/From Cooling Water to Cold Chem Lab Chiller Unit
PROD00021191	3/21/1975 blueprint/diagram Component Cooling Water System/Comp. Cooling from Manifold & Pump Assembly 22
PROD00021192	blueprint/diagram Component Cooling Water System/Comp. Cooling from Manifold & Pump Assembly 25
PROD00021193	TB CC Piping Isometric Drawings
PROD00021194	Testing and Computer Code Evaluation re AP1000 reactor design
PROD00021195	7/12/1971 Piping Loads on Equipment for Condensate Piping Turbine Building, Unit 2
PROD00021196	2/20/2009 Contract Change Request Scope of Work Change Statement for Project 11186132
PROD00021197	3/11/2009 Contract Change Request Scope of Work Change Statement for Project 11186132 re HELB sensitivity study
PROD00021198	3/16/2009 re Design Review Comment Form for EC 13929
PROD00021199	3/16/2009 re Design Review Comment Form for EC 13929
PROD00021200	4/15/2009 Engineering Change for Evaluation of the Effects of HELB Jet Impingement on CC Piping in the Turbine Building
PROD00021201	3/13/2009 External Design Document Suitability Review Checklist re Evaluation of the effects of Jet Impingement on CC piping in the turbine bldg
PROD00021202	3/13/2009 Design Review Comment Form re AES Calculation PI-996-61-M01 / Evaluation of the Effects of Jet Impingement on CC piping in the Turbine Bldg
PROD00021203	3/13/2009 Design Review Comment Form re AES Calculation PI-996-61-M01 / Evaluation of the Effects of Jet Impingement on CC piping in the Turbine Bldg
PROD00021204	11/25/2008 Engineering Change re Determination of Number of High Energy Pipe Sections Affecting Turbine Bldg CC Piping Using EPRI Methodology and attached PINGP Calculation dated 11/17/2008
PROD00021205	3/5/2009 Engineering Change 13762 re Evaluation of Turbine Bldg 695' Elevation Temperatures after a HELB and attachments
PROD00021206	3/20/2009 Engineering Change 13929 re Evaluation of Turbine Bldg 695' Elevation Temperatures and Humidities after a HELB (This Eval Supersedes EC 13762) and attachments
PROD00021207	5/14/2009 Engineering Change 13974 re Evaluation of the Effects of HELB Jet Impingement on CC Piping in the Turbine Building and attachments
PROD00021208	1/12/2009 email from B Slack to D Setlur cc C Agan re HELB Impact on CC Piping in TB
PROD00021209	1975 Fluor Pioneer Inc documents re Pump Suction Line Unit 1 including Pipe-Stress Input Data
PROD00021210	5/10/1974 Piping Loads on Equipment for Condensate Piping Turbine Building and Pipe-Stress Thermal Expansion Analysis

Document Number	Description
PROD00021211	4/24/2007 AT-0175 Action Request Record Report re Internal Flood Design Deficiencies and attachments
PROD00021212	Question 44: Perform orifice flow calculations for susceptible CD and FW lines to verify the PRA break frequency assumptions in action 04 (leak rates greater than 2000 gpm)
PROD00021213	Book PI-224-8.1 Part F Fluor Pioneer Inc documents including Pipe-Stress Data Input
PROD00021214	7/12/1971 Piping Loads on Equipment for Condensate Piping Turbine Building, Unit 2
PROD00021215	6/2/2009 Letter from E Bird (MPR Associates Inc) to B Slack (Xcel) re Prairie Island HELB Analysis
PROD00021216	data: run time 7/9/2005 at 9:12:15
PROD00021217	data: run time 7/9/2005 at 10:34:26
PROD00021218	data: run time 7/9/2005 at 10:55:13
PROD00021219	data: run time 8/11/2005 at 08:51:14
PROD00021220	data: run time 8/11/2005 at 09:09:55
PROD00021221	Control Volumes data
PROD00021222	8/25/2005 Calculation Sheet re Turbine Building HELB Pressure Analysis
PROD00021223	2/16/2009 email from D Setlur to B Slack cc S Ford and others re project costs for CD Piping in TB and Cold Chem Lab Structure Qualification
PROD00021224	2/20/2009 Scope of Services for Project 11186132 re Advent conducting sensitivity study of the 695' elevation of the Turbine Building HELB temperatures
PROD00021225	2/20/2009 Scope of Services for Project 11186132 re: AES will perform safety related evaluation of effects of jet impingement on CC piping in turbine building
PROD00021226	2/3/2009 Request for Phased Approval re CC HELB interaction structural analysis
PROD00021227	7/12/1971 Thermal Analysis - Condensate Piping Unit 2 Class III Piping
PROD00021228	Problem Statement re: design of CC piping located in Turbine Building
PROD00021229	PINGP Component Cooling Water / Turbine Building SDP Issue Risk Significance
PROD00021230	Prairie Island Turbine Building HELB Interaction with Component Cooling Piping
PROD00021231	Problem Statement re: Cooling Component piping located in the turbine Building not designed to protect the safety-related functions of the Cooling Component System from hazards occurring in the Turbine Building
PROD00021232	2/20/2009 email from R. Rohrer to D. Setlur of AES Engineering re: Potential interaction between high energy piping in turbine building and component cooling water piping
PROD00021233	Significance Determination Process re: CAP 01146004 - Mispositioned block valve on 11 TDAFWP
PROD00021234	6/12/2009 Email from D. Malek to R. Rohrer re: NRC conference call notes
PROD00021235	6/12/2009 Email from R. Rohrer to J. Masterlark at EPM, Inc. re: NRC conference call notes
PROD00021236	11/7/2008 Email from T. Asmus to R. Rohrer re: PRA Validation
PROD00021237	Determination of 11 TD AFWP Risk Significance Action Plan/Milestones
PROD00021238	11/4/2008 Management Oversight Meeting notes re: TDAFW pump
PROD00021239	11/6/2008 Email from M. Huting to J. Masterlark and R. Rohrer re: PRA Validation
PROD00021240	3/4/2009 Email from R. Rohrer to R. Ray re: CC/HELB assessment
PROD00021241	2/10/2009 Email from R. Rohrer to M. Huting re: Questions on CC SDP

Document Number	Description
PROD00021242	Apparent Cause Evaluation for missed HELB and CC system interaction
PROD00021243	Apparent Cause Evaluation for CC lines affected by 7/2006 HELB
PROD00021244	10/7/2009 Email from C. Koehler to R. Rohrer re: Summary of Refueling Cavity Leakage Meeting
PROD00021245	AFW Pump SDP Issues Update
PROD00021246	11/3/2008 Email from M. Huting to S. Northard, M. Wadley, J. Sorensen and others at Xcel re: preliminary results of SDP on AFW pump
PROD00021247	Significance Determination Process (SDP) Phase 3 Report re: 11 TDA FW Pump
PROD00021248	Project task list and status for CC HELB and internal flooding program
PROD00021249	Regulatory Scenarios for EAL and TB Flooding Findings
PROD00021250	4/14/2010 Licensing Issue Team Update re: Potential White Findings
PROD00021251	4/14/2010 Licensing Issue Team Update re: Turbine Building Flooding SDP
PROD00021252	4/7/2010 Licensing Issue Team Update re: CC HELB 95001
PROD00021253	4/7/2010 Licensing Issue Team Update re: EAL RA 1.1 and 1.2
PROD00021254	4/7/2010 Licensing Issue Team Update re: Turbine Building Flooding SDP
PROD00021255	2/19/2010 Email from T. Roddey to D. Kettering, K. Ryan, B. Sawatzke, M. Schimmel, and others at Xcel re: Meeting with K. Stoedter at NRC and support for SDP determination
PROD00021256	1/16/2009 Risk Assessment Approach for HELB Interaction with CC Piping in Turbine Building
PROD00021257	11/4/2008 Email from M. Huting to J. Anderson, M. Wadley, M. Schimmel, and others at Xcel re: PRA validation process
PROD00021258	Q&A for Star Tribune Interview re: NRC preliminary findings
PROD00021259	2/9/2009 Email from R. Rohrer to S. Myers and M. Huting re: Questions on CC SDP
PROD00021260	1/8/2010 Email from T. Roddey to R. Rohrer and others at Xcel re: AES Combined Stress Analysis
PROD00021261	2/16/2009 Email from R. Rohrer to P. Knoespel at EPM, Inc. and others at Xcel re: Calculation of HEP related to CC HELB SDP
PROD00021262	5/15/2010 Email from D. Potter to R. Rohrer, M. Huting, and R. Dremel re: cast iron valves
PROD00021263	2/19/2009 Email from R. Rohrer to E. Weinkam re: CC/HELB issue
PROD00021264	CC/HELB SDP MAAP Case to Model RCP Seal LOCA
PROD00021265	6/4/2009 Email from M. Huting to J. Anderson, G. Salamon, D. Koehl, and others at Xcel re: CC/HELB issue and NRC discussion
PROD00021266	3/13/2009 Email from D. Price to R. Sloss, R. Rohrer, and others at Xcel re: contract requisition for CC/HELB issue
PROD00021267	3/13/2009 Email from D. Price to R. Sloss, R. Rohrer, and D. Peckman re: contract requisitions for CC/HELB issue
PROD00021268	3/13/2009 Email from R. Sloss to R. Rohrer, D. Peckman, and D. Price re: contract requisitions for CC/HELB issue
PROD00021269	3/13/2009 Email from R. Rohrer to R. Sloss and S. Skoyen re: contract requisitions for CC/HELB issue
PROD00021270	6/1/2009 Email from J. Anderson to R. Rohrer, D. Potter, and G. Salamon re: estimated date for internal flooding analysis
PROD00021271	6/24/2009 Email from R. Rohrer to J. Ritter re: determination of seismic risk for CC/HELB SDP
PROD00021272	Spreadsheet titled Turbine Building HELB-Induced Loss of Component Cooling Water Event

Document Number	Description
PROD00021273	3/1/2009 Summary of PINGP Component Cooling Water/Turbine Building Issue Risk Significance
PROD00021274	2/27/2009 Summary of PINGP Component Cooling Water/Turbine Building Issue Risk Significance
PROD00021275	11/5/2008 Email from D. Malek to M. Davis and R. Rohrer re: summary of meeting with K. Stoeder
PROD00021276	4/21/2010 Email from R. Rohrer to J. Anderson re: LIT updates
PROD00021277	4/21/2010 Licensing Issue Team (LIT) Update re: Turbine Building Flooding SDP
PROD00021278	6/11/2009 Email from R. Rohrer to D. Malek re: summary of NRC conference call
PROD00021279	1/7/2010 Email from R. Dremel to R. Rohrer re: Flooding SDP Schedule
PROD00021280	Document titled Information Needs for SDP Evaluation
PROD00021281	8/25/2009 Email from J. Ritter to R. Rohrer re: TB Flooding Schedule/Cost
PROD00021282	1/16/2009 Email from R. Rohrer to J. Ritter and M. Brossart re: PRA Risk Assessment Approach for HELB/CC SDP
PROD00021283	11/5/2008 Email from S. Northard to M. Huting, J. Anderson, M. Wadley and others at Xcel re: PRA Validation
PROD00021284	6/17/2009 Email from R. Rohrer to J. Ritter re: Draft of NRC responses
PROD00021285	2/27/2009 Email from R. Rohrer to C. Koehler re: RCP Seal LOCA Information
PROD00021286	10/15/2009 Email from C. Koehler to R. Ray and R. Rohrer re: recent engineering activities
PROD00021287	11/7/2008 Email from R. Rohrer to J. Ritter re: Summary of SDP Discussion with NRC
PROD00021288	11/7/2008 Email from R. Rohrer to J. Ritter and others at Xcel re: Summary of SDP Discussion with NRC
PROD00021289	12/22/2008 Email from E. Weinkam to M. Huting, M. Wadley, S. Northard, and others at Xcel re: Summary of SDP issues
PROD00021290	12/23/2008 Email from M. Huting to E. Weinkam, M. Wadley, S. Northard, and others at Xcel re: Summary of SDP issues
PROD00021291	Document titled Success Path #1: Unit 2 RMU System Remains Available Following the Unit 1 HELB event
PROD00021292	11/7/2008 Email from J. Ritter to J. Masterlark, R. Rohrer, and others at Xcel re: Summary of SDP Discussion with NRC
PROD00021293	11/6/2008 Summary of Discussion with NRC on SDP Issues
PROD00021294	12/19/2008 Email from M. Huting to M. Wadley, S. Northard, D. Koehl, and others at Xcel re: Summary of SDP issues
PROD00021295	RCE Report titled No HELB Flooding Calculation for the Turbine Building (4/14/2009)
PROD00021296	1/16/2009 Program Engineering SDP Issue Status Report
PROD00021297	11/19/2008 Report Summary: Cooling component in turbine building - HELB Issues
PROD00021298	11/19/2008 Table of SDP and HELB Issue occurrences
PROD00021299	11/18/2008 Computer log re HELB Issues
PROD00021300	11/20/2008 Cutsets with Descriptions Report re HELB Issues
PROD00021301	11/20/2008 Cutsets with Descriptions Report Table re HELB
PROD00021302	11/18/2008 Computer log showing CC piping in turbine building - HELB Issues file were read
PROD00021303	Comments re B. Slack's HELB revision
PROD00021304	7/15/2009 Handwritten note re Inspection report
PROD00021305	7/22/2009 Xcel Energy Team Notes: Prairie Island newsletter
PROD00021306	Notes re review of NRC Inspection report 2009010

Document Number	Description
PROD00021307	Pages from RASP Manual Vol. 2 with handwritten notes
PROD00021308	White paper for CC/HELB Outcome and Continued Efforts re 7/9/2009 NRC SDP assessment
PROD00021309	White paper for CC/HELB Outcome and Continued Efforts re 7/9/2009 NRC SDP assessment
PROD00021310	5/15/2009 CC-HELB Team Meeting Summary
PROD00021311	5/15/2009 CC-HELB Team Meeting Summary
PROD00021312	2/3/2009 Email from J. Gahlhar to B. Homer re temperature impact of loss of component cooling
PROD00021313	Action #11 report prepared by B. Homer re temperature impact of component cooling loss
PROD00021314	1/27/2009 Email from B. Horner to D. Lapcinski re support for the turbine building HELB analysis
PROD00021315	Response to Question re effect on temperature if loss of component cooling occurs prepared by C. Sansome
PROD00021316	1/20/2009 Email from M. Loosbrock to J.Ritter, B. Horner, and M. Brossart re time estimate for operators to recognize component cooling break
PROD00021317	Note re component cooling water inventory prepared by B. Horner
PROD00021318	2/5/2009 Letter from A. Washburn of Sulzer Pumps to S. Skoyen re pump activity and loss of cooling component water inventory
PROD00021319	3/9/2009 Record of telephone conversation between B. Horner and J. Grebin of Edelmann & Assoc. re HELB issue
PROD00021320	Photocopy of NRC Question Response form dated 11/5/2008 re interaction of high energy piping and component cooling system in turbine building
PROD00021321	1/29/2009 Write-up of information contained within AES turbine building HELB calculations by B. Slack
PROD00021322	2/17/2009 Write-up re PRA assumptions for CD and FW line breaks
PROD00021323	2/6/2009 Email from J. Kempkes to B. Horner re pump operation with loss of coolant inventory
PROD00021324	2/6/2009 Email from J. Kempkes to J. Ritter re operators' actions if valve unable to be opened remotely
PROD00021325	2/10/2009 Email from B. Horner to J. Ritter re HELB piping
PROD00021326	1/16/2009 Record of Telephone Conversation between B. Horner and E. Colvin of Westinghouse re RCP seal injection water temperature maximum allowable limit
PROD00021327	2/9/2009 Email from J. Ritter to PINGP engineers re updates to HELB/CC interaction project
PROD00021328	Spreadsheet re interaction of HELB/CC/FW piping
PROD00021329	Calculations re water level in CC surge tank and CC tubing rupture
PROD00021330	Calculations re draindown time of CC surge tank following a pipe break in the turbine building
PROD00021331	Report re CC surge tank draindown following a tubing rupture
PROD00021332	3/9/2009 Record of telephone conversation between B. Horner and J. Grebin of Edelmann & Assoc re NPSH requirements for Goulds 3196 model pump
PROD00021333	3/31/2009 Record of telephone conversation between B. Horner and B. Lutz of Westinghouse re testing of o-ring ultimate failure
PROD00021334	4/6/2009 Revised report re activation of fire protection system during HELB event
PROD00021335	3/25/2009 Revised report re staffing policies/procedures
PROD00021336	Write-up of Action 28 and 29 calculations including emailed comments
PROD00021337	3/13/2009 Report re interaction of high energy and cooling component piping in turbine building

Document Number	Description
PROD00021338	Determination of average CC surge tank level for input into the CC/HELB risk analysis
PROD00021339	V.SPA.08.008 Addendum 10: 21 Component Cooling Water Surge Tank Level Calculation
PROD00021340	Spreadsheet with values corresponding to 21 CC surge tank levels over time
PROD00021341	Excel file of grafts depicting CC Surge tank level over time
PROD00021342	Excel files with grafts depicting CC Surge Tank levels over time
PROD00021343	Spreadsheet with values corresponding to 21 CC surge tank levels over time
PROD00021344	Spreadsheet with values corresponding to 21 CC surge tank levels over time
PROD00021345	3/8/2009 Memo from D. Malek to S. Northard re status of the turbine building HELB/CC piping significant determination process
PROD00021346	3/9/2009 Memo from D. Malek to S. Northard re status of the turbine building HELB/CC piping significant determination process
PROD00021347	3/10/2009 Memo from D. Malek to S. Northard re status of the turbine building HELB/CC piping significant determination process
PROD00021348	3/11/2009 Memo from D. Malek to S. Northard re status of the turbine building HELB/CC piping significant determination process
PROD00021349	3/12/2009 Memo from D. Malek to S. Northard re status of the turbine building HELB/CC piping significant determination process
PROD00021350	3/13/2009 Memo from D. Malek to S. Northard re status of the turbine building HELB/CC piping significant determination process
PROD00021351	3/16/2009 Memo from D. Malek to S. Northard re status of the turbine building HELB/CC piping significant determination process
PROD00021352	3/17/2009 Memo from D. Malek to S. Northard re status of the turbine building HELB/CC piping significant determination process
PROD00021353	3/18/2009 Memo from D. Malek to S. Northard re status of the turbine building HELB/CC piping significant determination process
PROD00021354	3/19/2009 Memo from D. Malek to S. Northard re status of the turbine building HELB/CC piping significant determination process
PROD00021355	3/20/2009 Memo from D. Malek to S. Northard re status of the turbine building HELB/CC piping significant determination process
PROD00021356	3/23/2009 Memo from D. Malek to S. Northard re status of the turbine building HELB/CC piping significant determination process
PROD00021357	3/24/2009 Memo from D. Malek to S. Northard re status of the turbine building HELB/CC piping significant determination process
PROD00021358	3/25/2009 Memo from D. Malek to S. Northard re status of the turbine building HELB/CC piping significant determination process
PROD00021359	3/26/2009 Memo from D. Malek to S. Northard re status of the turbine building HELB/CC piping significant determination process

Document Number	Description
PROD00021360	3/27/2009 Memo from D. Malek to S. Northard re status of the turbine building HELB/CC piping significant determination process
PROD00021361	3/30/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021362	3/31/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021363	4/1/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021364	4/2/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021365	4/5/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021366	4/6/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021367	4/7/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021368	4/8/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021369	4/9/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021370	4/10/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021371	4/13/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021372	4/14/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021373	4/15/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021374	4/16/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021375	4/17/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021376	4/19/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021377	4/20/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process

Document Number	Description
PROD00021378	4/21/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021379	4/22/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021380	4/23/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021381	4/24/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021382	4/27/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021383	4/28/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021384	4/29/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021385	4/30/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021386	5/1/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021387	5/4/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021388	5/5/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021389	5/6/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021390	5/7/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021391	5/8/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021392	5/12/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021393	5/13/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021394	5/14/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021395	5/15/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process

Document Number	Description
PROD00021396	5/18/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021397	5/19/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021398	5/20/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021399	5/21/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021400	5/22/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021401	6/1/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021402	5/29/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021403	6/1/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021404	6/1/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021405	6/3/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021406	6/9/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021407	6/10/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021408	6/12/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021409	6/15/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021410	6/18/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021411	6/24/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021412	6/29/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021413	7/2/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process

Document Number	Description
PROD00021414	4/6/2009 Memo from D. Malek to K. Ryan re status of the turbine building HELB/CC piping significant determination process
PROD00021415	3/8/2009 Memo from D. Malek to S. Northard re status of the turbine building HELB/CC piping significant determination process
PROD00021416	12/13/2007 Revisions to Flow diagram unit 1 & 2 cooling water - screenhouse
PROD00021417	6/14/2004 Revisions to Flow diagram Unit 1 Cooling water - turbine building
PROD00021418	1/20/2005 Revisions to Flow Diagram - Unit 1 cooling water - aux. bldg
PROD00021419	2/28/2005 Revisions to Flow diagram Unit 1 Cooling Water - containment
PROD00021420	2/28/2007 Revisions to Flow diagram Unit 2 cooling water - turbine building
PROD00021421	10/1/2008 Revisions to Flow diagram Unit 2 Cooling water Aux. Bldg
PROD00021422	10/1/2008 Revisions to Flow diagram Unit 2 cooling water - containment
PROD00021423	4/3/1997 Revisions to Flow diagram Piping ISO Cooling Water A-6607
PROD00021424	12/13/2007 Revisions to Flow diagram Unit 1& 2 Cooling Water - Screenhouse
PROD00021425	6/14/2004 Revisions to Flow Diagram - Unit 1 Cooling Water - Turbine Building
PROD00021426	1/20/2005 Revisions to Flow Diagram - Unit 1- Cooling Water - Aux. Bldg.
PROD00021427	2/28/2005 Revision to Flow Diagram Unit 1 Cooling Water - Containment
PROD00021428	2/28/2007 Revision to Flow diagram Unit 2 Cooling Water - Turbine Building
PROD00021429	10/17/2008 Revision to Flow diagram Unit 2 Cooling Water Aux. Bldg.
PROD00021430	10/17/2008 Revision to Flow diagram of Unit 2 Cooling Water - Containment
PROD00021431	4/3/1997 Revisions to Piping ISO Cooling Water schematic
PROD00021432	12/9/2008 NRC Question Response Form re CAP000826114 - Seismic analysis
PROD00021433	5/21/2009 Analysis of simulated operator failure scenarios by Scientech
PROD00021434	5/21/2009 Analysis of simulated operator failure scenarios
PROD00021435	Page from analysis of simulated operator errors
PROD00021436	5/27/2009 Human Reliability Analysis to Support Significance Determination Process
PROD00021437	Table of operator error scenarios
PROD00021438	5/27/2009 Human Reliability Analysis to Support Significance Determination Process
PROD00021439	Note from J. Ritter to Sonja and Sean re interaction of HELB and CC piping
PROD00021440	2/23/2006 Alarm Response Procedure Rev. 39
PROD00021441	2/23/2006 Alarm Response Procedure Rev. 36
PROD00021442	8/27/2008 Alarm Response Procedure Rev. 46
PROD00021443	Alarm Response Procedure Rev. 25
PROD00021444	Table re HELB/CC Interaction
PROD00021445	CC/HELB Summary
PROD00021446	3/11/2009 Memo from J. Ritter to W. Scholberg re HELB/Flooding
PROD00021447	11/5/2008 NRC Question Response Form re HELB/CC interaction questions
PROD00021448	Table re HELB/CC Interactions

Document Number	Description
PROD00021449	Report re inputs needed to assess internal flooding
PROD00021450	3/5/2009 NRC Question Response Form re likelihood of fire protection system activation in HELB event
PROD00021451	4/13/2006 Abnormal Operating Procedure - Fire Protection Line Break
PROD00021452	12/29/2004 Abnormal Operating Procedure - Loss of Pumping Capacity or Supply Header with out Safety Injection Signal
PROD00021453	3/17/2009 Memo from M. Smutny to J. Ritter and other engineers re HELB impact on CC
PROD00021454	3/17/2009 Memo from R. Calzaretta to W. Scholberg re flow calculations for Unit 1 sprinklers
PROD00021455	Pipe break scenarios
PROD00021456	Evaluation of flooding due to turbine building HELB
PROD00021457	Spreadsheet re flooding calculations
PROD00021458	Report re draindown time calculations following a tubing rupture
PROD00021459	Spreadsheet re flooding event scenarios
PROD00021460	Spreadsheet re flooding event scenarios
PROD00021461	Spreadsheet re flooding event scenarios
PROD00021462	Spreadsheet re flooding event scenarios
PROD00021463	11/5/2008 NRC Question Response Form re HELB/CC interaction questions
PROD00021464	12/9/2008 NRC Question Response Form re HELB issue
PROD00021465	Spreadsheet re HELB/CC interactions
PROD00021466	3/23/2009 Email from K. Flemming at ti-sd to J. Ritter re Break Frequency analysis
PROD00021467	Spreadsheet re HELB calculations
PROD00021468	Table re HELB and jet impingement
PROD00021469	2/2009 Prairie Island Turbine Building 695' Elevation HELB Temperature Sensitivity Study
PROD00021470	2/2009 Prairie Island Turbine Building 695' Elevation HELB Temperature Sensitivity Study
PROD00021471	Note re HELB and temperature
PROD00021472	5/6/2009 Operator failure simulation analysis
PROD00021473	5/6/2009 Operator failure simulation analysis
PROD00021474	5/6/2009 Operator failure simulation analysis
PROD00021475	5/6/2009 Operator failure simulation analysis
PROD00021476	3/6/2009 Operator failure simulation analysis
PROD00021477	List of Procedures/documents supporting simulation analysis
PROD00021478	5/9/2009 Operator failure simulation analysis
PROD00021479	5/13/2009 Operator failure simulation analysis
PROD00021480	5/23/2009 Operator failure simulation analysis
PROD00021481	5/26/2009 Operator failure simulation analysis
PROD00021482	5/27/2009 Operator failure simulation analysis
PROD00021483	List of procedures/documents supporting simulation analysis
PROD00021484	5/13/2009 Operator failure simulation analysis

Document Number	Description
PROD00021485	5/21/2009 Operator failure simulation analysis
PROD00021486	5/23/2009 Operator failure simulation analysis
PROD00021487	5/23/2009 Operator failure simulation analysis
PROD00021488	5/2009 Comments re Operator failure simulation analysis
PROD00021489	OLRCPVC11XT Operator failure simulation analysis - Operator fails to open VC-1-1
PROD00021490	Notes re Operator failure simulation analysis
PROD00021491	5/26/2009 Operator failure simulation analysis - Operator fails to open VC-1-1
PROD00021492	5/27/2009 Operator failure simulation analysis - Operator fails to open VC-1-1
PROD00021493	List of Procedures/Documents supporting simulation analysis
PROD00021494	1/8/2009 Abnormal Operating Procedure - Restarting Unit 2 AFWP after Low suction/Discharge Pressure Trip
PROD00021495	5/22/2009 Operator failure simulation analysis - Operator fails to open VC-1-1
PROD00021496	Spreadsheet re CC Piping In turbine building
PROD00021497	Comments re Operator failure analyses
PROD00021498	4/10/2009 Comments re CC/HELB Simulator Run
PROD00021499	4/17/2007 Simulator Exercise Guide - Time-Critical Operator Action
PROD00021500	3/15/2008 Abnormal Operating Procedures - Loss of Condensate Supply to Auxiliary Feedwater Pump Suction
PROD00021501	Procedures re emergency component cooling system
PROD00021502	4/7/2009 Email from J. Grobbelaar at Curtiss Wright to J. Ritter re operator failure simulations
PROD00021503	Comments re operator failure simulation analyses
PROD00021504	4/1995 Job Performance Measure Worksheet re Emergency Tripping of RCP's due to Loss of Component Cooling
PROD00021505	QF-1075-01 Rev. 1 Job Performance Measure re Emergency Tripping of RCP's due to Loss of CC
PROD00021506	3/19/1996 Job Performance Measure Worksheet re Reactor Trip Recovery
PROD00021507	Comments re Operator Failure simulations re loss of coolant accident
PROD00021508	List re Simulator training frequency
PROD00021509	List re simulator training frequency
PROD00021510	Sequence of Events following Tornado
PROD00021511	Spreadsheet re human performance/HELB
PROD00021512	5/7/2009 Email from J. Ritter to R. Best re operator failure simulation analysis
PROD00021513	Figure 3. Pressures for base case one inch cold leg break with ES -1.2 guideline application
PROD00021514	Simulator sequence of events
PROD00021515	Operator responses re failure to open VC-1-1 simulations
PROD00021516	Bullet list re failure to open VC-1-1simulations
PROD00021517	Comments re operator failure simulations
PROD00021518	5/7/2009 Graph depicting trend in human performance simulation
PROD00021519	9/7/1971 Condensate schematic
PROD00021520	2/23/2009 Analysis of operator actions in simulator
PROD00021521	2/23/2009 Analysis of operator actions in simulator

Document Number	Description
PROD00021522	2/27/2009 Analysis of operator actions in simulator
PROD00021523	Comments re operator actions following HELB
PROD00021524	Spreadsheet re time to seal loss of cooling accident
PROD00021525	2/24/2009 Email from B. Johnson to D. Malek re HELB and reactor make-up in unit 1
PROD00021526	Simulator Case study on letdown isolation and impact on VCT pressure
PROD00021527	3/20/2009 Letter from K. Iepson of ICE to S. Roberto re Functional Assessment for the Reactor Make-up Pump Motors and the Associated Electrical Power Supply Components
PROD00021528	Spreadsheet re Leakage flow verses pressure
PROD00021529	1/11/2008 Procedure for operator to cool down and depressurize RCS to Mode 5 following a loss of reactor coolant inventory
PROD00021530	Procedure for operator if emergency coolant recirculation capability is restored
PROD00021531	Figures re Containment temperature and pressure following PI loss of CCW due to HELB
PROD00021532	Comments re operator actions to reduce RHR flow
PROD00021533	ECA-1/1: procedure to transition from 1E-1
PROD00021534	Worst case scenario analysis re operator failure
PROD00021535	Figure 1: RCP seal LOCA (Pressure v. Time)
PROD00021536	Plot request re operator initiated cool down parameters
PROD00021537	3/24/2009 MAAP Analysis: RCP Seal LOCA with Loss of CCW
PROD00021538	Comments re parameters for modeling actions post LOCA cool down and depressurization
PROD00021539	Procedure path re modeling RCP seal LOCA
PROD00021540	Procedure path for modeling RCP seal LOCA
PROD00021541	Procedure path re modeling RCP seal LOCA
PROD00021542	3/23/2009 Email from M. Smutny to J. Ritter re modeling actions following a HELB event
PROD00021543	3/10/2009 Memo from D. Malek to S. Northard re status of turbine building HELB/CC piping significant determination process
PROD00021544	1/12/2009 Draft memo from B. Horner to S. Northard re status of turbine building HELB/CC piping significant determination process
PROD00021545	1/13/2009 Draft memo from B. Horner to S. Northard re status of turbine building HELB/CC piping significant determination process
PROD00021546	1/19/2009 Memo from B. Horner to S. Northard re status of turbine building HELB/CC piping significant determination process
PROD00021547	1/20/2009 Memo from B. Horner to S. Northard re status of turbine building HELB/CC piping significant determination process
PROD00021548	1/20/2009 Memo from B. Horner to S. Northard re status of turbine building HELB/CC piping significant determination process
PROD00021549	1/29/2009 Memo from B. Horner to S. Northard re status of turbine building HELB/CC piping significant determination process

Document Number	Description
PROD00021550	1/30/2009 Memo from B. Horner to S. Northard re status of turbine building HELB/CC piping significant determination process
PROD00021551	2/10/2009 Memo from B. Horner to S. Northard re status of turbine building HELB/CC piping significant determination process
PROD00021552	2/12//2009 Memo from B. Horner to S. Northard re status of turbine building HELB/CC piping significant determination process
PROD00021553	2/3/2009 Memo from B. Horner to S. Northard re status of turbine building HELB/CC piping significant determination process
PROD00021554	2/5/2009 Memo from B. Horner to S. Northard re status of turbine building HELB/CC piping significant determination process
PROD00021555	2/6/2009 Memo from B. Horner to S. Northard re status of turbine building HELB/CC piping significant determination process
PROD00021556	Power Point re meeting with NRC
PROD00021557	8/5/2009 Letter from NRC to PINGP re Preliminary White finding
PROD00021558	Letter from J. Ritter to Laura re CC/HELB interaction
PROD00021559	6/10/2009 NRC Question Response Form re pipe description and requested documents
PROD00021560	6/10/2009 NRC Question Response Form re CC/HELB interactions
PROD00021561	6/10/2009 NRC Question Response Form re piping replaced
PROD00021562	6/10/2009 NRC Question Response Form re piping replaced
PROD00021563	6/10/2009 NRC Question Response Form re list of documents requested
PROD00021564	6/10/2009 NRC Question Response Form re documents requested
PROD00021565	6/10/2009 NRC Question response form re documents requested for review
PROD00021566	NRC Question Response Form
PROD00021567	NRC Question Response Form
PROD00021568	NRC Question Response Form
PROD00021569	NRC Question Response Form
PROD00021570	NRC Question Response Form
PROD00021571	NRC Question Response Form
PROD00021572	Response to NRC Question
PROD00021573	Response to NRC Question
PROD00021574	Response to NRC Question
PROD00021575	Response to NRC Question
PROD00021576	Response to NRC Question
PROD00021577	Component Cooling Water/Turbine Building SDP Issue Risk Significance
PROD00021578	5/27/2009 HELB Break Analysis of the CL System
PROD00021579	6/24/2009 Email from J. Ritter to C. Sansome re: analysis of the CC/HELB CL pipe break calculations
PROD00021580	6/23/2009 Email from C. Sansome to J. Ritter re: analysis of CC/HELB CL pipe break calculations

Document Number	Description
PROD00021581	Risk Assessment Approach for HELB Interaction with CC Piping in the Turbine Building SDP
PROD00021582	Risk Assessment Approach for HELB Interaction with CC Piping in the Turbine Building SDP
PROD00021583	Significance Determination Process (SDP) Questions Component Cooling Line Interaction with HELB Piping in the Turbine Building
PROD00021584	Significance Determination Process (SDP) Questions Component Cooling Line Interaction with HELB Piping in the Turbine Building
PROD00021585	Risk Assessment Approach for HELB Interaction with CC Piping in the Turbine Building SDP
PROD00021586	Risk Assessment Approach for HELB Interaction with CC Piping in the Turbine Building SDP
PROD00021587	Risk Assessment Approach for HELB Interaction with CC Piping in the Turbine Building SDP
PROD00021588	11/20/2008 Risk based analysis for CC/HELB issues
PROD00021589	Risk based analysis for CC/HELB issues
PROD00021590	11/19/2008 Risk based analysis for CC/HELB issues
PROD00021591	Risk based analysis for CC/HELB issues
PROD00021592	11/18/2008 Risk based analysis for CC/HELB issues
PROD00021593	Risk based analysis for CC/LOOP issues
PROD00021594	11/5/2008 NRC Question Response Form
PROD00021595	Human Failure Error (HFE) Number 1: Operators Fail to Diagnose Loss of CC
PROD00021596	Re-analysis of Seismic contribution to CC/HELB SDP
PROD00021597	Seismic Event Modeling and Seismic Risk Quantification
PROD00021598	Seismic Event Modeling and Seismic Risk Quantification
PROD00021599	Analysis of seismic event
PROD00021600	Analysis of seismic events
PROD00021601	Risk based analysis for CC/HELB issues
PROD00021602	CC Piping Adjacent to HELB Location in Turbine Building
PROD00021603	Risk based analysis for CC/HELB issues
PROD00021604	Risk based analysis for CC/HELB issues
PROD00021605	Sensitivity Results with AFW Pump Room Flood Impacts on Equipment
PROD00021606	4/29/2009 Simulator CC/HELB Scenario
PROD00021607	4/29/2009 Analysis of CC HELB Scenario simulator run.
PROD00021608	Initiating Event Resulting in a Unit 2 Loss of Component Cooling
PROD00021609	2008 PI Feedwater-CC HELB Issue
PROD00021610	11/5/2008 NRC Question Response Form
PROD00021611	3/16/2009 Email from D. Malek to M. Smutney, J. Connors, and J. Ritter re: analysis of a HELB/Loss of CC scenario
PROD00021612	3/8/2009 Memorandum to S. Northard from D. Malek re: CC piping adjacent to HELB location in turbine bldg
PROD00021613	External event analysis
PROD00021614	5/26/2009 Memorandum to K. Ryan from D. Malek re: CC Piping Adjacent to HELB Location in Turbine bldg
PROD00021615	3/5/2009 NRC Question Response Form

Document Number	Description
PROD00021616	3/5/2009 NRC Question Response Form
PROD00021617	3/5/2009 NRC Question Response Form
PROD00021618	1/27/2009 Success of Standby Charging Pump During Loss of CC Event
PROD00021619	6/15/2009 Email from J. Ritter from J. Grobbelaar and others @ Xcel re: analysis of CC/HELB SDP - Flooding
PROD00021620	2/12/2009 Memorandum to S. Northard from B. Horner re: CC Piping Adjacent to HELB Location in Turbine bldg
PROD00021621	3/8/2009 Memorandum to S. Northard from D. Malek re: CC Piping adjacent to HELB Location in Turbine Bldg
PROD00021622	6/5/2009 PINGP Component Cooling Water/Turbine Building Issue Risk Significance Summary of Xcel Analysis Performed
PROD00021623	Report on interactions between high energy piping and cooling water (CL) that also affect component cooling (CC)
PROD00021624	Documentation of all interactions between high energy piping and cooling water (CL) that also affect component cooling (CC)
PROD00021625	Significance Determination Process CC Piping Adjacent to HELB Location in Turbine Building
PROD00021626	HELB Pipe Break Frequency Calculation
PROD00021627	Analysis of CC/HELB CL Flooding Event
PROD00021628	6/10/2009 NRC Question Response Form
PROD00021629	3/1/2009 PINGP Component Cooling Water/Turbine Building Issue Risk Significance Summary of Xcel Analysis Performed
PROD00021630	Calculation Verification Checklist
PROD00021631	Remove CC Dependency for SI and RHR System Fault Trees
PROD00021632	6/10/2009 NRC Question Response Form
PROD00021633	3/1/2009 PINGP Component Cooling Water/Turbine Building Issue Risk Significance Summary of Xcel Analysis Performed
PROD00021634	3/1/2009 PINGP Component Cooling Water/Turbine Building Issue Risk significance Summary of Xcel Analysis Performed
PROD00021635	External event analysis
PROD00021636	3/5/2009 NRC Question Response Form
PROD00021637	3/5/2009 NRC Question Response Form
PROD00021638	3/5/2009 NRC Question Response Form
PROD00021639	6/24/2009 Email from J. Ritter to T. Asmus and P. Knoespel re: analysis of flooding event
PROD00021640	PINGP Evaluation re Limiting time for operator action to mitigate flooding effects from a HELB
PROD00021641	PINGP Report titled Component Cooling Water / Turbine Building Issue Risk Significance - Summary of Xcel Analysis Performed
PROD00021642	12/2/2008 email from J. Ritter to B. Slack and K. DenHerder re: HELB lines that impact the CC piping located in the Turbine Building
PROD00021643	11/18/2008 email from J. Ritter to P. Knoespel, T. Asmus, and D. Malek re: Issue related to HELB interaction with Component Cooling piping located in the Turbine Building

Document Number	Description
PROD00021644	11/21/2008 letter from K. Den Herder to J. Ritter re: Responses to questions for each of the HELB lines identified in the 11/5/2008 NRC Information Request
PROD00021645	Simulator scenarios re: Unit 2 RMU System remains available following the Unit 1 HELB Event and re: SI Success Path
PROD00021646	NRC Question Response Form re: NRC Requests of 6/10/2009
PROD00021647	12/19/2008 email from J. Ritter to R. Best re: NRC Probabilistic Risk Assessment visit regarding possible white finding on HELB/CC issue
PROD00021648	NRC Question Response Form re: Details of HELB Piping of Concerns for CC/HELB SDP
PROD00021649	10/22/2009 email from S. Myers to L. Johnson and others at Xcel re: Concern raised by the NRC for the Battery Rooms in response to a Unit 2 Turbine Building HELB
PROD00021650	5/16/2009 email from R. Best to S. Northard and others at Xcel re: Xcel's position on the performance deficiency and lack of bounds on the CC-HELB SDP scope
PROD00021651	Proposed Xcel Position Statements Relative to the CC-HELB SDP Evaluation
PROD00021652	Response to question posed by the NRC regarding flow rates from postulated break sizes in the CL system.
PROD00021653	Xcel's options in regard to the NRC's preliminary white finding against Unit 2 in the cross-cutting area of human performance for decision making related to the design of the Turbine Building CC piping
PROD00021654	7/10/2009 email from J. Ritter to jpm@epm-inc.com and others at Xcel re: Preliminary results of the CC/HELB Significant Design Process
PROD00021655	2/12/2009 email from J. Ritter to B. Horner and S. Skoyen re: Timing related to CC Surge Tank based on pipe breaks
PROD00021656	4/25/2009 email from J. Ritter to M. Hopman re: Potential of evaluating impacts of flooding in Turbine Building in the current CC/HELB Significant Design Process and understanding of Cooling Water break flow rates
PROD00021657	2/9/2009 email from J. Riter to D. Smith re: Proposed responses to the NRC for CC/HELB Operator Actions
PROD00021658	2/9/2009 email from D. Smith to J. Ritter re: HELB occurrence on Unit 1 causing severance of Unit 2 CC lines scenario
PROD00021659	4/22/2009 email from D. Malek to D. Hartinger and others at Xcel re: Discovery of potential flooding in the Turbine Building
PROD00021660	Report on interactions between high energy piping and cooling water that also affect component cooling
PROD00021661	Risk Assessment Approach for HELB Interaction with CC Piping in the Turbine Building
PROD00021662	HELB Pipe Break Frequency Calculation
PROD00021663	Unit 1 HELB Piping - Pipe Whip Damage Only
PROD00021664	Analysis re: High Energy Line Break occurring in area of the turbine building that also contains main feedwater and Component Cooling Water piping
PROD00021665	HELB Pipe Break Frequency Calculation Based on HELB Design Basis Criteria
PROD00021666	1/19/2009 email from J. Carver to M. Loosbrock re: The use of cross-connect valves relative to the Cooling Component High Energy Line Break Issue
PROD00021667	Report with response as to whether there exists engineering calculation to support procedures to perform cross-connecting Unit 1 to Unit 2 Component Cooling System.
PROD00021668	11/18/2008 email from J.Ritter to K. Den Herder and others at Xcel re: Issue related to HELB interaction with Component Cooling piping located in Turbine Building.

Document Number	Description
PROD00021669	12/2/2008 email from J. Ritter to K. DenHerder re: Review of information relative to HELB lines that impact Component Cooling piping located in the Turbine Building
PROD00021670	12/2/2008 email from J. Ritter to J. Anderson and others at Xcel re: Information provided to NRC Region III Senior Risk Analyst (Laura Kozak)
PROD00021671	4/3/2009 email from D. Setlur of AES Engineering to J. Ritter and C. Agan re: Break and crack sizes in Component Cooling Piping in turbine Building from HELB events
PROD00021672	3/12/2009 email from J. Ritter to B. Slack and others at Xcel re: Discovery of new piece of HELB piping impacting CC line in Turbine Building
PROD00021673	11/5/2008 NRC Question Response Form re: Length and diameter of high energy pipes that can interact with the Turbine Building Component Cooling System
PROD00021674	12/19/2008 email from J. Ritter to K. Fleming and R. Best re: Re-evaluation of SDP issue relative to Component Cooling piping in Turbine Building
PROD00021675	5/20/2009 MAAP Analysis - RCP Seal LOCA with Loss of CCW
PROD00021676	5/15/2009 MAAP Analysis - RCP Seal LOCA with Loss of CCW
PROD00021677	4/26/2009 study performed in support of a loss of CCW scenario
PROD00021678	4/26/2009 study performed in support of a loss of CCW scenario
PROD00021679	4/26/2009 study performed in support of a loss of CCW scenario
PROD00021680	4/26/2009 study in support of a loss of CCW scenario
PROD00021681	4/26/2009 study performed in support of a loss of CCW scenario
PROD00021682	4/26/2009 study performed in support of a loss of CCW scenario
PROD00021683	4/26/2009 study performed in support of a loss of CCW scenario
PROD00021684	4/26/2009 study performed in support of a loss of CCW scenario
PROD00021685	Prairie Island loss of CCW due to HELB - simulator data
PROD00021686	MAAP4 Analysis of RCP Seal LOCA With RHR/SI Unavailable
PROD00021687	5/20/2009 letter from Engineering Planning and Management, INC to Jayne Ritter re: description of MAAP analysis - Prairie Island RCP Seal LOCA with Loss of CCW
PROD00021688	5/20/2009 MAAP analysis - Reactor cooler pump seal LOCA with loss of CCW
PROD00021689	4/15/2009 study performed in support of a loss of CCW scenario
PROD00021690	4/15/2009 study performed in support of a loss of CCW scenario
PROD00021691	4/15/2009 study performed in support of a loss of Cow scenario
PROD00021692	4/15/2009 study performed in support of a loss of CCW scenario
PROD00021693	4/15/2009 Study performed in support of a loss of CCW scenario
PROD00021694	4/15/2009 study performed in support of a loss of CCW scenario
PROD00021695	4/15/2009 Study in support of a loss of CCW scenario
PROD00021696	4/15/2009 study performed in support of a loss of CCW scenario to predict a subsequent RCP seal LOCA with progression to stable sump recirculation
PROD00021697	4/4/2009 Email from J. Ritter to J. Olvera w/ R. Best & P. Knoespel cc'd re MAAP Run for ECA-1.1 calculations

Document Number	Description
PROD00021698	2/27/2009 email from J. Olvera to J. Ritter re CC/HELB MAAP calculations
PROD00021699	3/19/2009 email from J. Olvera to J. Ritter, P. Knoespel re CC/HELB MAAP calculations
PROD00021700	3/23/2009 email from J. Ritter to P. Olvera, P. Knoespel re CC/HELB MAAP cases to model/calculations
PROD00021701	PT_2ES-1-1_step.inc file re post loca cool down and depressurization
PROD00021702	3/24/2009 email from J. Ritter to J. Olvera, P. Knoespel, re CC/HELB MAAP calculation
PROD00021703	CC/HELB calculation
PROD00021704	3/24/2009 email from J. Ritter to J. Olvera re CC/HELB MAAP calculation
PROD00021705	3/23/2009 email from J. Olvera to J. Ritter, P. Knoespel re CC/HELB MAAP calculations
PROD00021706	3/25/2009 email from J. Ritter to J. Olvera, P. Knoespel re CC/HELB MAAP calculations
PROD00021707	3/25/2009 email from J. Ritter to J. Olvera, P. Knoespel re CC/HELB MAAP calculation
PROD00021708	3/25/2009 email from J. Ritter to J. Olvera, P. Knoespel, re CC/HELB MAAP calculation
PROD00021709	3/19/2009 email from K. Slingsby to J. Ritter re ERCS data request for CC/HELB calculation
PROD00021710	ECRS data report from 4/8/2001
PROD00021711	3/19/2009 email from K. Slingsby to J. Ritter re ERCS data request for CC/HELB calculation
PROD00021712	ECRS data report from 4/8/2001
PROD00021713	3/29/2009 email from J. Ritter to J. Olvera, P. Knoespel re comments on MAAP report for CC/HELB
PROD00021714	3/29/2009 email from J. Ritter to J. Olvera, P. Knoespel re comments on MAAP report for CC/HELB adding sensitivity analysis
PROD00021715	3/30/2009 email from J. Ritter to J. Olvera, P. Knoespel re completion of MAAP report for CC/HELB
PROD00021716	4/1/2009 email from J. Ritter to J. Olvera, P. Knoespel re comments on revised MAAP report for CC/HELB
PROD00021717	3/30/2009 email from J. Olvera to J. Ritter, P. Knoespel re revised draft of MAAP report for CC/HELB
PROD00021718	3/24/2009 MAAP Analysis RCP Seal LOCA with Loss of CCW draft with markings
PROD00021719	3/24/2009 MAAP Analysis RCP Seal LOCA with Loss of CCW
PROD00021720	3/24/2009 MAAP Analysis RCP Seal LOCA with Loss of CCW draft with markings
PROD00021721	CC/HELB SDP MAAP Case to Model RCP Seal LOCA with SI & RHR Recirculation Mode with FCU as Decay Heat Removal
PROD00021722	4/24/2009 email from J. Ritter to others at Xcel re MAAP run results based on simulator results and procedure flow path
PROD00021723	3/10/2005 Loss of Emergency Coolant Recirculation Procedure
PROD00021724	Loss of Emergency Coolant Recirculation step 14 Check if SI can be terminated
PROD00021725	5/1/2009 email from J. Ritter to J. Olvera, R. Best, P. Knoespel re MAAP sensitivities cases calculations
PROD00021726	ECA-1.1 step analysis
PROD00021727	4/30/2005 Background Information For Westinghouse Group Emergency Response Guideline ES-1.2 Post LOCA Cool down and Depressurization
PROD00021728	2/24/2009 email from J. Ritter to L. Kozak re CC/HELB SDP additional information
PROD00021729	4/24/1996 B13 Reactor Water Make-Up System Description and Review
PROD00021730	11/21/2006 Reactor Makeup System Procedure
PROD00021731	8/1/2007 Reactor Makeup Degasification System Procedure

Document Number	Description
PROD00021732	1/24/2006 Alarm Response Procedure Manual
PROD00021733	Question and Responses on Reactor Makeup System
PROD00021734	Tank Book Reactor Makeup Storage Tanks 11, 12, 21, & 22
PROD00021735	3/27/2009 NRC Question Response Form re 12-MS-35 steam line location relative to CC supply valves
PROD00021736	2/9/2009 email from J. Ritter to T. Borgen re additional information on CC/HELB SDP
PROD00021737	2/10/2009 email from J. Ritter to Others at Xcel re Conclusion on HELB Line 12-MS-35
PROD00021738	6/23/2009 email from J. Ritter to Others at Xcel re NRC Questions and Requests on CC/HELB
PROD00021739	6/17/2009 email from D. Malek to J. Ritter re NRC Questions and Requests on CC/HELB
PROD00021740	11 RCP seal records
PROD00021741	6/11/2009 NRC question response form re in-scope piping RCP seals
PROD00021742	6/11/2009 email from D. Malek to R. Best, J. Ritter re NRC Questions and Requests on CC/HELB
PROD00021743	6/11/2009 email from J. Ritter to R. Best, D. Malek re NRC Questions and Requests on CC/HELB
PROD00021744	11/5/2008 NRC Question Response Form re length, diameter, of CC/HELB piping
PROD00021745	6/10/2009 NRC Question Response Form re replacement of FAC piping
PROD00021746	2/9/2009 NRC Question Response Form re training material supporting Charging Pump Suction source to RWST
PROD00021747	2/9/2009 email from J. Ritter to L. Kozak re: Prairie Island CC/HELB SDP - Additional Information
PROD00021748	2/10/2009 email from J. Ritter to L. Kozak re: Prairie Island CC/HELB SDP Additional Information - 12-MS-35 and LOCA Success Criteria for Seal LOCA break areas
PROD00021749	3/1/2009 email from J. Ritter to L. Kozak re: Prairie Island CC/HELB SDP Information (Summary Assessment) re: risk significance of the Component Cooling Water/Turbine Building HELB issue
PROD00021750	12/2/2008 email from J. Ritter to L. Kozak re: Prairie Island Component Cooling Piping/HELB Issue Cutsets and information for Component Cooling System Piping Interaction with High Energy Line Breaks located in the Turbine Building
PROD00021751	Cutsets with Descriptions Report re: Component Cooling Water
PROD00021752	Spreadsheet Cutsets with Descriptions Report , Loss of Component Cooling Water, Case 2a - U2 LOCC w U2 HELB
PROD00021753	2/12/2007 - Core Cooling Following Loss of RHR Flow Procedures rev 13
PROD00021754	1/5/2006 PINGP Abnormal Operating Procedure -Earthquakes
PROD00021755	1/5/06 Abnormal Operating Procedure "Loss of Component Cooling" 2C14 AOP1 REV: 16
PROD00021756	Various Alarm Response Procedures - C47015
PROD00021757	10/14/2008 Alarm Response Procedure - Revision 29
PROD00021758	6/24/2007 Alarm Response Procedure - Revision 38
PROD00021759	5/2/2003 Alarm Response Procedure - Revision 28
PROD00021760	2/23/2006 Alarm Response Procedure - Revision 36
PROD00021761	8/19/1991 Unit 2 Component Cooling System Flow Diagram
PROD00021762	8/2/1991 Unit 2 Component cooling system flow diagram
PROD00021763	2/27/2009 Preliminary Human Reliability Analysis for RMW Tank Swapover Operator Action
PROD00021764	2/27/2009 Preliminary Human Reliability Analysis for RMW Tank Swapover Operator Action

Document Number	Description
PROD00021765	3/27/2009 NRC question response form - With regards to the 12-MS-35 steam line, what is its location relative to the valves (CC-71-1 & CC-71-2) that isolate the CC supply to the Gas House?
PROD00021766	11/1991 Component External Leakage and Rupture Frequency Estimates
PROD00021767	4/16/2009 email from R. Best to D. Vincent, M. Wadley and others at Xcel re: agenda for NRC conference call
PROD00021768	3/9/2009 Discussion with Jack Geissner on CC/HELB SDP Issue
PROD00021769	3/9/2009 email from R. Best to J. Ritter re: Notes from discussion with Jack Geisner regarding the schedule and milestones for the CC/HELB issue
PROD00021770	Response to NRC question about loss of component cooling and subsequent alarm response procedures
PROD00021771	1/20/2009 email from M. Loosbrock to J. Ritter, M. Brossart, B. Horner re: CC/HELB letdown
PROD00021772	NRC questions regarding loss of component cooling and alarm response procedure
PROD00021773	7/2/2009 email from J. Carver to M. Smutny re: CL flooding due to HELB in Turbine Bldg scenario
PROD00021774	3/12/2009 email from D. Smith to S. Seilhymmer re: CC/HELB and Letdown
PROD00021775	7/13/2009 email from J. Carver to J. Ritter re: Consequences of turbine building flood on C35 AOP2 Actions and NRC findings
PROD00021776	2/9/2009 email from D. Smith to J. Ritter re: HELB at reduced inventory
PROD00021777	5/6/2009 Email from J. Carver to J. Ritter re CC/HELB and Operator Response
PROD00021778	5/6/2009 Email from J. Carver to J. Ritter re CC/HELB and Operator Response
PROD00021779	3/16/2009 Email from J. Carver to J. Ritter re HELB and CC Valves
PROD00021780	3/16/2009 Email from J. Carver to J. Ritter re CC Surge Tank and Leakage
PROD00021781	3/16/2009 Email from J. Carver to J. Ritter re CC Surge Tank and Leakage
PROD00021782	5/12/2009 Email from J. Carver to J. Ritter re CC/HELB Question related to Tornado Event
PROD00021783	5/11/2009 Email from J. Carver to J. Ritter re CC/HELB Question related to Tornado Event
PROD00021784	5/11/2009 Email from J. Carver to J. Ritter re CC/HELB Question related to Tornado Event
PROD00021785	5/11/2009 Email from J. Carver to J. Ritter re CL Flooding Event
PROD00021786	6/23/2009 Email from James Carver to Jayne Ritter re: CL Flooding and Operator Procedure
PROD00021787	6/23/2009 Email from James Carver to Jayne Ritter re: MV-32371 and Turbine cooling following trip
PROD00021788	4/30/2009 Email from Jayne Ritter to James Carver re: thermal hydraulic analysis for crediting actions in ECA-1.1
PROD00021789	5/4/2009 Email From James Carver to Jayne Ritter re: RCS subcooling and depressurization
PROD00021790	4/30/2009 Email from James Carver to Jayne Ritter re: operation of SI pump in ECA-1.1
PROD00021791	4/30/2009 email from J. Carver to J. Ritter re: Human Reliability Analysis (HRA) for C14 AOP1 actions and HELB pipe break scenario
PROD00021792	4/30/2009 email from J. Carver to J. Ritter re: Human Reliability Analysis (HRA) for C14 AOP1 actions
PROD00021793	4/28/2009 email from J. Carver to J. Ritter re: Loss of Offsite Power at PINGP and plant safeguards
PROD00021794	5/22/2009 email from J. Carver to J. Ritter re: Question re: review the operator action human reliability analysis that were used for the CC/HELB SDP
PROD00021795	3/19/2009 email from J. Carver to J. Ritter re: RCP Seal Injection Restoration and sealing procedure

Document Number	Description
PROD00021796	2/10/2009 email from D. Smith to J. Ritter re: Turbine building HELB/CC piping interaction questions and HELB scenarios
PROD00021797	2/10/2009 email from T. Borgen to J. Ritter re: Turbine building HELB/CC piping interaction questions
PROD00021798	1/28/2009 email from S. Ginkel to J. Ritter re: Outage Timeline Information for NRC Finding and information needed for risk assessment
PROD00021799	Chart showing dates and times of outage actions
PROD00021800	1/23/2009 email from S. Ginkel to J. Ritter re: Outage Timeline Information for NRC Finding and information needed for risk assessment
PROD00021801	Chart showing dates and times for outage actions
PROD00021802	1/22/2009 email from S. Ginkel to J. Ritter and other Xcel employees re: Outage Timeline Information for NRC Finding and information needed for risk assessment analysis
PROD00021803	1/22/2009 email from S. Ginkel to J. Ritter and other Xcel employees re: Outage Timeline Information for NRC Finding and information needed for risk assessment
PROD00021804	1/16/2009 email from J. Ritter to M. Huting and other Xcel employees re: PRA Risk Assessment Approach for HELB/CC SDP analysis
PROD00021805	Tables re: Unit 1 HELB Pipe Break Calculation (Linear Foot Method), Unit 2 HELB Pipe Break Calculation (Linear Foot Method)
PROD00021806	4/8/2009 V.SPA.08.008, Addendum 8 HELB Pipe Break Frequency Calculation
PROD00021807	Significance Determination Process (SDP) Phase 2 Prairie Island Unit 2 CAP 01145695 "CC Piping Adjacent to HELB Location in Turbine Building"
PROD00021808	Cutsets with Descriptions Report
PROD00021809	Cutsets with Descriptions Report
PROD00021810	6/5/2009 PINGP Component Cooling Water/Turbine Building Issue Risk Significance Summary of Xcel Energy Analysis Performed
PROD00021811	6/5/2009 email from R. Best to J. Ritter re: CC-HELB report, round 3
PROD00021812	6/5/2009 PINGP Component Cooling Water/Turbine Building Issue Risk Significance Summary of Xcel Energy Analysis Performed
PROD00021813	6/5/2009 PINGP Component Cooling Water/Turbine Building Issue Risk Significance Summary of Xcel Analysis Performed
PROD00021814	Cutsets with Descriptions Report
PROD00021815	Cutsets with Descriptions Report
PROD00021816	6/4/2009 V.SPA.08.008, Addendum 2 - SDP Quantification
PROD00021817	6/5/2009 email from D. Malek to R. Best re: More files needed re: CCDP Description, HELB Frequency, FAC Method, and Final Quantification files
PROD00021818	Cutsets with Descriptions Report
PROD00021819	6/4/2009 V.SPA.08.008, Addendum 2 - SDP Quantification
PROD00021820	6/4/2009 V.SPA.08.008, Addendum 2 - SDP Quantification

Document Number	Description
PROD00021821	6/3/2009 email from R. Best to J. Ritter re: V SPA 08 008 - Addendum 12-jr comments 6.02.09.doc
PROD00021822	6/3/2009 V.SPA.08.008, Addendum 12 CC-HELB SDP Event Trees
PROD00021823	6/3/2009 email from R. Best to J. Ritter and other Xcel employees re: Rough first cut at CC-HELB report for Friday
PROD00021824	PINGP Component Cooling Water/Turbine Building Issue Risk Significance Summary of Xcel Analysis Performed 6/5/2009
PROD00021825	3/19/2009 email from R. Best to J. Ritter and D. Malek re: TB CC event tree stuff
PROD00021826	1/2/2009 email from J. Ritter to B. Horner re: RCP Seal Info for NRC RAI Response - Needs a review
PROD00021827	Follow-Up Questions Regarding Responses to SAMA RAIs for Prairie Island
PROD00021828	2/17/2009 email from J. Kempkes to J. Ritter and other Xcel employees re: Operator Review of RMW Pump Operation and Tank Swap over
PROD00021829	12/15/2008 email from B. Horner to J. Ritter re: Potential NRC Question (RCP Pump Cooling, Charging verses CC)
PROD00021830	12/19/2008 email from B. Horner to J. Ritter re: Potential NRC Question (RCP Pump Cooling, Chagrin verses CC)
PROD00021831	12/22/2008 email from B. Horder to J. Ritter re: Potential NRC Question (RCP Pump Cooling, Charging verses CC)
PROD00021832	1/5/2009 email from J. Ritter to B. Horner and R. Best re: Potential NRC Question (RCP Pump Cooling, Charging verses CC)
PROD00021833	2/28/2009 email from J. Ritter to R. Best and R. Rohrer re: Draft SDP summary document for comment
PROD00021834	2/27/2009 PINGP Component Cooling Water/Turbine Building Issue Risk Significance Summary of Xcel Analysis Performed
PROD00021835	11/18/2008 email from P. Knoespel to J. Ritter and J. Masterlark re: EC13459%20-%20Number%20of%20high%20energy%20pipe%20sections[1].pdf
PROD00021836	11/17/2008 e-mail from P. Knoespel to J. Ritter re: internal flooding initiating event frequencies
PROD00021837	11/18/2008 e-mail from J. Ritter to K. Den Herder re: HELB interaction with the turbine building component cooling piping
PROD00021838	11/6/2008 e-mail from M. Davis to D. Malek and J. Ritter re: design of cooling component in turbine building
PROD00021839	12/8/2008 e-mail from P. Knoespel to J. Ritter re: HELB pipe break frequency
PROD00021840	11/17/2008 e-mail from P Knoespel to J. Ritter re: HELB pipe break methodology
PROD00021841	12/1/2008 e-mail from P. Knoespel to J. Ritter re: HELB pipe break frequency
PROD00021842	Data supporting HELB pipe break frequency analysis
PROD00021843	12/2/2008 e-mail from P. Knoespel to R. Best and J. Ritter re: HELB pipe break frequency
PROD00021844	2/18/2009 e-mail from B. Horner to S. Northard re: CC/HELB issue
PROD00021845	12/2/2008 e-mail from L. Kozak of the NRC to J. Ritter re: CC/HELB issue
PROD00021846	11/18/2008 e-mail from P. Knoespel to J. Ritter re: CC/HELB issue
PROD00021847	March 2009 Past Operability Analysis of PINGP Safety Injection Pumps for Loss of Lube Oil Cooling prepared by MPR Associates
PROD00021848	3/20/2009 e-mail from D. Malek to J. Ritter re: CC/HELB issue
PROD00021849	3/20/2009 Iepson Consulting Enterprises draft of Functional Assessment for the Reactor Make-Up Pump Motors and the Associated Electrical Power Supply Components

Document Number	Description
PROD00021850	3/25/2009 Iepson Consulting Enterprises final draft of Functional Assessment for the Reactor Make-Up Pump Motors and the Associated Electrical Power Supply Components
PROD00021851	3/23/2009 e-mail from J. Ritter to K. Vincent and S. Roberta re: 3/20/2009 Iepson Consulting Enterprises draft of Functional Assessment for the Reactor Make-Up Pump Motors and the Associated Electrical Power Supply Components
PROD00021852	3/6/2009 letter from K. Iepson of Iepson Consulting Enterprises to S. Roberto re: proposal for technical support
PROD00021853	6/20/2007 response to question re: CC surge tank level transmitters
PROD00021854	6/20/2007 CDBI Question Response Form re: non-safety related instrumentation
PROD00021855	5/6/2009 PINGP SDP3.HRA Analysis File re: HELB/CC
PROD00021856	5/13/2009 e-mail from J. Ritter to J. Grobbelaar with Curtiss Wright re: HELB/CC issue
PROD00021857	5/8/2009 PINGP SDP3.HRA Analysis File re: HELB/CC
PROD00021858	4/23/2005 CBDTM/THERP cognitive analysis by J. Grobbelaar of SCIENTECH re: CC and tornado or seismic event
PROD00021859	5/22/2009 e-mail from J. Grobbelaar at Curtis Wright to J. Ritter re: HELB/CC
PROD00021860	5/13/2009 HCR/ORE/THERP cognitive analysis by J. Grobbelaar re: HELB/CC
PROD00021861	5/14/2009 CBDTM/THERP cognitive analysis by J. Grobbelaar re: CC and LOOP caused by tornado
PROD00021862	5/14/2009 CBDTM/THERP cognitive analysis by J. Grobbelaar re: CC and LOOP due to tornado or seismic event
PROD00021863	5/14/2009 e-mail from J. Grobbelaar of Curtis Wright to J. Ritter re: HELB/CC
PROD00021864	5/13/2009 e-mail from J. Grobbelaar of Curtis Wright to J. Ritter re: HELB/CC
PROD00021865	5/13/2009 e-mail from J. Grobbelaar of Curtis Wright to J. Ritter re: HELB/CC
PROD00021866	4/9/2009 e-mail from J. Ritter to J. Grobbelaar of Curtis Wright re: HELB/CC
PROD00021867	4/1/2009 MAAP Analysis re: RCP Seal LOCA with Loss of CCW by Engineering and Planning Management, Inc.
PROD00021868	4/24/2009 e-mail from J. Grobbelaar of Curtis Wright to J. Ritter and J. Julius re: HELB/CC
PROD00021869	5/8/2009 CBDTM/THERP cognitive analysis by J. Grobbelaar of SCIENTECH re: HELB/CC
PROD00021870	5/7/2009 e-mail from J. Grobbelaar of Curtis Wright to J. Ritter re: CC and tornado or seismic event
PROD00021871	5/27/2009 Human Reliability Analysis to Support Significance Determination Process prepared by J. Grobbelaar of Curtiss Wright / SCIENTECH
PROD00021872	5/29/2009 e-mail from J. Grobbelaar of Curtis Wright to J. Ritter re: HELB/CC
PROD00021873	5/21/2009 PINGP SDP3.HRA Analysis File re: HELB/CC
PROD00021874	5/26/2009 PINGP SDP3.HRA Analysis File re: CC and LOOP from tornado
PROD00021875	5/26/2009 PINGP SDP3.HRA Analysis File re: CC and LOOP from tornado or seismic event
PROD00021876	5/26/2009 PINGP SDP3.HRA Analysis File re: CC and LOOP from tornado
PROD00021877	5/26/2009 PINGP SDP3.HRA Analysis File re: CC and LOOP from tornado or seismic event
PROD00021878	5/6/2009 e-mail from J. Grobbelaar of Curtiss Wright to J. Ritter re: HELB/CC
PROD00021879	4/7/2009 e-mail from J. Ritter to J. Grobbelaar of Curtiss Wright re: HELB/CC
PROD00021880	2/24/2009 e-mail from J. Ritter to J. Grobbelaar of Curtiss Wright re: HELB/CC
PROD00021881	2/23/2009 PINGP SDP3.HRA Analysis File re: HELB/CC
PROD00021882	Operator failure loss of CC scenarios

Document Number	Description
PROD00021883	2/18/2009 e-mail from J. Grobbelaar of Curtis Wright to J. Ritter re: HELB/CC
PROD00021884	3/19/2009 e-mail from J. Ritter to J. Masterloark re: HELB/CC
PROD00021885	2/23/2009 PINGP SDP3.HRA Analysis File re: HELB/CC
PROD00021886	2/24/2009 e-mail from J. Grobbelaar of Curtis Wright to J. Ritter re: HELB/CC
PROD00021887	2/27/2009 e-mail from J. Grobbelaar of Curtis Wright to J. Ritter re: HELB/CC
PROD00021888	2/27/2009 PINGP SDP.3HRA Analysis File re: HELB/CC
PROD00021889	2/27/2009 e-mail from J. Ritter to J. Grobbelaar of Curtis Wright re: HELB/CC
PROD00021890	2/27/2009 e-mail from J. Grobbelaar of Curtis Wright to J. Ritter re: HELB/CC
PROD00021891	2/27/2009 e-mail from J. Grobbelaar of Curtis Wright to J. Ritter re: HELB/CC
PROD00021892	2/27/2009 e-mail from J. Grobbelaar of Curtis Wright to J. Ritter re: HELB/CC
PROD00021893	2/27/2009 e-mail from J. Grobbelaar of Curtis Wright to J. Ritter re: HELB/CC
PROD00021894	Decision tree re: alternative steps following loss of CC
PROD00021895	2/27/2009 e-mail from J. Grobbelaar of Curtis Wright to J. Ritter re: HELB/CC
PROD00021896	2/27/2009 e-mail from J. Grobbelaar of Curtis Wright to J. Ritter re: HELB/CC
PROD00021897	2/26/2009 e-mail from J. Grobbelaar of Curtis Wright to J. Ritter re: HELB/CC
PROD00021898	2/26/2009 e-mail from J. Grobbelaar of Curtis Wright to J. Ritter re: HELB/CC
PROD00021899	2/26/2009 e-mail from J. Grobbelaar of Curtis Wright to J. Ritter re: CC/HELB
PROD00021900	2/25/2009 e-mail from J. Grobbelaar of Curtis Wright to J. Ritter re: CC/HELB
PROD00021901	3/6/2009 e-mail from J. Grobbelaar of Curtis Wright to J. Ritter re: CC/HELB
PROD00021902	3/9/2009 e-mail from J. Grobbelaar of Curtis Wright to J. Ritter re: CC/HELB
PROD00021903	3/7/2009 e-mail from J. Grobbelaar of Curtis Wright to J. Ritter re: CC/HELB
PROD00021904	3/5/2009 e-mail from J. Grobbelaar of Curtis Wright to J. Ritter re: CC/HELB
PROD00021905	2/17/2009 e-mail from J. Grobbelaar of Curtis Wright to J. Ritter re: CC/HELB
PROD00021906	2/17/2009 e-mail from J. Grobbelaar of Curtis Wright to J. Ritter re: CC/HELB
PROD00021907	2/17/2009 e-mail from J. Grobbelaar of Curtis Wright to J. Ritter re: CC/HELB
PROD00021908	2/20/2009 e-mail from J. Grobbelaar of Curtis Wright to D. Malek re: CC/HELB
PROD00021909	2/20/2009 PINGP SDP3.HRA Analysis File re: CC/HELB
PROD00021910	2/20/2009 e-mail from D. Malek to J. Grobbelaar of Curtis Wright re: CC/HELB
PROD00021911	2/23/2009 e-mail from J. Grobbelaar of Curtis Wright to D. Malek re: CC/HELB
PROD00021912	2/23/2009 e-mail from J. Grobbelaar of Curtis Wright to D. Malek re: CC/HELB
PROD00021913	2/19/2009 e-mail from J. Grobbelaar of Curtis Wright to D. Malek re: CC/HELB
PROD00021914	2/23/2009 e-mail from J. Grobbelaar of Curtis Wright to J. Ritter re: CC/HELB
PROD00021915	2/19/2009 e-mail from D. Malek to J. Grobbelaar of Curtis Wright re: CC/HELB
PROD00021916	2/23/2009 PINGP SDP3.HRA Analysis File re: CC/HELB
PROD00021917	5/18/2009 e-mail from D. Malek to J. Ritter re: CC/HELB
PROD00021918	5/18/2009 21 Component Cooling Water Surge Tank Level Calculation
PROD00021919	2/19/2009 e-mail from J. Hanson to J. Ritter and others at Xcel re: CC/HELB

Document Number	Description
PROD00021920	2/18/2009 e-mail from J. Hanson to J. Ritter re: CC/HELB
PROD00021921	4/2/2009 50.59 Screening re: Measure Unit 2 RMU Flows to CC Surge Tank and VCT for PRA
PROD00021922	6/6/2007 CDBI Question Response Form re: mission time for the CC Surge Tank
PROD00021923	1/5/2009 e-mail from J. Ritter to R. Best re: CC/HELB
PROD00021924	6/24/2009 e-mail from J. Ritter to R. Rohrer re: CC/HELB
PROD00021925	6/24/2009 Re-analysis of Seismic Contribution to CC/HELB SDP
PROD00021926	Seismic Event BIN-1 Event Tree
PROD00021927	Prairie Island Seismic Hazard Vector Table
PROD00021928	4/20/2009 e-mail from R. Best to K. Kriesel re: CC System Fragilities
PROD00021929	4/17/2009 Stevenson & Associates calculation re: seismic capacity of condensate make-up tank, unit 1
PROD00021930	4/17/2009 Stevenson & Associates calculation re: seismic capacity of blow out panel in gas house
PROD00021931	4/17/2009 Stevenson & Associates calculation re: seismic capacity of blow out panel in gas house
PROD00021932	4/17/2009 Photographic Log attachment to Stevenson & Associates calculation re: seismic capacity of condensate make-up tank, unit 1
PROD00021933	4/16/2009 Stevenson & Associates Engineering Walkdown Report
PROD00021934	5/19/2009 e-mail from R. Best to J. Ritter and others at Xcel re: Stevenson & Associates seismic calculations
PROD00021935	5/15/2009 Stevenson & Associates calculation re: seismic and wind fragility parameters
PROD00021936	5/19/2009 Stevenson & Associates calculation re: seismic and wind capacities of the gas house
PROD00021937	May 2009 Stevenson & Associates Report: External Event Fragilities for Component Cooling System in Turbine Building
PROD00021938	May 2009 Stevenson & Associates Photographic Log Attachment to Report: External Event Fragilities for Component Cooling System in Turbine Building
PROD00021939	5/2/2009 e-mail from R. Best to K. Kriesel and D. Malek re: Stevenson & Associates CC/HELB report
PROD00021940	1/12/2009 e-mail from K. Kriesel to D. Setlur of Automated Engineering Services Corp. re: CC piping seismic analysis
PROD00021941	TB CC Piping Isometric Drawings
PROD00021942	2/12/2009 Automated Engineering Services Corp. Progress Report on Analysis of CC/FW/CD Lines in Turbine Building
PROD00021943	Component Cooling Piping Project Engineering Work Scope
PROD00021944	2/2/2009 NRC Question Response Form re: PINGP seismic evaluations
PROD00021945	2/2/2009 NRC Question Response Form re: tornado loads within the turbine building
PROD00021946	5/20/2009 e-mail from R. Best to D. Malek re: tornado mean value calculations
PROD00021947	5/20/2009 R. Best tornado mean value calculations
PROD00021948	4/27/2009 e-mail from D. Malek to R. Best and W. Djordjevic of Stevenson & Associates re: CC system fragilities
PROD00021949	Data supporting CC system fragilities analysis
PROD00021950	Data supporting CC system fragilities analysis
PROD00021951	5/2/2009 e-mail from K. Kriesel to J. Ritter re: CC/HELB SDP
PROD00021952	4/24/2009 e-mail from R. Best to W. Djordjevic of Stevenson & Associates re: RFP for seismic and tornado analysis of turbine building equipment

Document Number	Description
PROD00021953	March 1994 response to NRC Generic Letter 88-20 - Individual Plant Examination of External Events for Severe Accident Vulnerabilities
PROD00021954	4/24/2009 RFP to Stevenson & Associates for seismic and tornado analysis of turbine building equipment
PROD00021955	2/6/2009 e-mail from J. Ritter to D. Malek and others at Xcel re: seismic HELB impact on CC piping
PROD00021956	Data supporting seismic fragilities analysis
PROD00021957	2/6/2009 e-mail from J. Ritter to D. Malek and others at Xcel re: seismic HELB impact on CC piping
PROD00021958	4/17/2009 Design Information Transmittal re: Safety Injection Pump operation without CC flow
PROD00021959	3/17/2009 e-mail from W. Hadeka to J. Ritter re: CC/HELB
PROD00021960	Design Description Form re: RHR pump seal replacement
PROD00021961	3/26/2009 e-mail from J. Ritter to B. Horner and D. Malek re: containment and RCS pressure
PROD00021962	CC/HELB containment sump water temperature analysis
PROD00021963	3/13/2009 e-mail from M. Smutny to J. Ritter re: RWST Refill Sources
PROD00021964	1/15/2009 e-mail from W. Hadeka to J. Ritter re: CC/HELB
PROD00021965	April 2009 MPR Associates, Inc. Report: Past Operability Analysis of PINGP Safety Injection Pumps for Loss of Lube Oil and Seal Cooling
PROD00021966	3/26/2009 MPR Associates Lube Oil Heat Rejection Calculation
PROD00021967	4/24/2009 MPR Associates Lube Shaft Seal Heat Generation Calculation
PROD00021968	1/29/2009 e-mail from B. Horner to A. Washburn at Sulzer re: SI Pump Loss of Bearing Cooling
PROD00021969	Lube Oil Piping diagram
PROD00021970	3/10/2009 Email from J. Ritter to T. Borgen & M. Halverson re information for simulator CC/HELB case
PROD00021971	3/10/2009 PINGP Human Reliability Analysis Calculation performed by Jan Grobbelaar, Scientech
PROD00021972	3/13/2009 Email from M. Smutny to J. Ritter re CC/HELB simulator
PROD00021973	3/13/2009 Email from M. Smutny to J. Ritter re CC/HELB simulator
PROD00021974	12/19/2008 Email from J. Ritter to R. Best and others at Xcel re summary of CC/HELB SDP Discussion with the NRC
PROD00021975	3/12/2010 Email from D. Malek to R. Best & J. Ritter re risk of tornados to CC Water piping
PROD00021976	Report CC Piping Project Engineering Work Scope
PROD00021977	3/9/2009 Email from J. Ritter to K. Kriesel & D. Malek re calculations on probability of missile impact from a tornado
PROD00021978	5/4/1993 Calculations on probability of missile impact from a tornado
PROD00021979	5/31/1994 Calculations re tornado & seismic evaluation
PROD00021980	3/20/2009 Email from J. Ritter to T. Borgen re PRA Human Reliability Analysis
PROD00021981	1/12/2009 Email from B. Horner to J. Ritter re Turbine building HELB/CC SDP update
PROD00021982	2/28/2009 Email from J. Ritter to R. Rohrer & R. Best re CC HELB NRC submission
PROD00021983	1/15/2009 Email from B. Horner to S. Northard re turbine building HELB/CC SDP update
PROD00021984	11/5/2008 Reply by B. Slack to NRC Question Response form
PROD00021985	1/15/2009 Email from B. Horner to J. Ritter HELB/CC SDP update
PROD00021986	1/18/2009 Email from James Masterlark at EPM to B. Horner re short term strategy for HELB/CC SDP response
PROD00021987	1/9/2009 Memo from B. Horner to S. Northard re status of turbine building HELB/CC piping

Document Number	Description
PROD00021988	2/9/2009 Memo from B. Horner to S. Northard re status of turbine building HELB/CC piping
PROD00021989	2/25/2005 Memo from B. Horner to S. Northard re status of turbine building HELB/CC SDP
PROD00021990	3/13/2009 Memo from S. Northard to D. Malek re status of turbine building HELB/CC SDP
PROD00021991	Data from simulator cases in response to action 10
PROD00021992	Output from simulator case in response to action 11
PROD00021993	Output from simulator cases in response to actions 28 & 29
PROD00021994	1/29/2009 Email from B. Horner to J. Ritter re simulation data on loss of CC, Ltdn & VCT temperatures
PROD00021995	Graph on LTDN & VCT temperature after loss of CC
PROD00021996	3/23/2009 Volume Control Tank Simulator Case Study prepared by J. Ritter reviewed by D. Malek technical review B. Horner
PROD00021997	3/23/2009 Email from J. Gehlar to J. Ritter re question regarding simulator software used for actions 28 and 29 related to CC HELB
PROD00021998	1/29/2009 Email from B. Horner to J. Ritter re response to loss of CC, Ltdn & VCT temperature simulation
PROD00021999	Data from loss of CC, Ltdn & VCT temperature simulation
PROD00022000	Evaluation on loss of cooling while in an outage
PROD00022001	1/13/2009 Email from J. Ritter to John Olvera re question regarding CC line interaction with HELB piping SDP
PROD00022002	5/27/2009 Email from J. Ritter to T. Borgen re CC/HELB flooding simulator scenario
PROD00022003	Summary of results loss of CC scenario
PROD00022004	2/17/2009 Email from J. Ritter to J. Grobbelaar re responses to questions on reactor makeup tank swapover operator action
PROD00022005	Results reactor makeup tank swapover operator action
PROD00022006	Tank Book reactor makeup tank swapover operator action
PROD00022007	5/31/2009 e-mail from J. Ritter to T. Bacon re: CC/HELB SDP
PROD00022008	12/1/2008 e-mail from J. Ritter to D. Malek and R. Best re: CC/HELB
PROD00022009	4/9/2009 assumptions supporting MAAAP cases re: RCP seal LOCA with loss of CCW
PROD00022010	6/3/2009 e-mail from M. Huting to M. Schimmel and others at Xcel re: NRC CC/HELB presentation
PROD00022011	12/1/2008 draft of letter from J. Ritter to NRC re: CC/HELB
PROD00022012	6/17/2009 e-mail from J. Ritter to K. DenHerder re: CC/HELB
PROD00022013	6/17/2009 e-mail from J. Ritter to R. Best and B. Horner re: CC/HELB SDP
PROD00022014	5/15/2009 e-mail from J. Ritter to M. Smutny re: operator action to open VC-1-1
PROD00022015	4/23/2005 CBDTM/THERP Cognitive Analysis by J. Grobbelaar re: operator failure to open VC-1-1
PROD00022016	4/10/2009 Email from J. Ritter to D. Malek and R. Best re: Operator Dependency Actions
PROD00022017	2/16/2009 Email from J. Ritter to B. Horner and T. Bacon re: Operator Review of RMW Pump Operation and Tank Swap Over
PROD00022018	7/12/2007 List of Main PRA Notebooks
PROD00022019	3/4/2009 Email from D. Malek to J. Ritter re: pipe break frequency
PROD00022020	Spreadsheet titled Unit 1 HELB Piping

Document Number	Description
PROD00022021	12/15/2008 Email from J. Ritter to B. Horner re: Potential NRC question
PROD00022022	Spreadsheet titled Unit 1 HELB Piping
PROD00022023	6/23/2009 Email from T. Asmus to J. Ritter and P. Knoespel re: Preliminary HEP for isolation of CL line break
PROD00022024	6/23/2009 Basic Event Summary re: CL line break
PROD00022025	Power Point presentation titled CCHELB/Flooding Program Direction (5/11/2009)
PROD00022026	NRC Question Response Form re: piping related to SDP
PROD00022027	NRC Question Response Form re: piping related to SDP
PROD00022028	NRC Question Response Form re: CCW/Turbine Building SDP summary report
PROD00022029	NRC Question Response Form re: piping related to SDP
PROD00022030	1/7/2009 Email from J. Ritter to T. Asmus and P. Knoespel re: Question on CVCS dependency on CC
PROD00022031	6/2/2009 Email from J. Ritter to K. Fleming re: Question on HELB pipe break failure rate data
PROD00022032	3/19/2009 Email from J. Ritter to J. Carver and T. Borgen re: RCP seal injection restoration
PROD00022033	3/23/2009 Email from J. Ritter to J. Gehlhar re: responses to CC/HELB questions
PROD00022034	3/23/2009 Email from J. Ritter to B. Slack re: Unit 1 line 12-CD-7 piping
PROD00022035	3/23/2009 Email from J. Ritter to K. Den Herder re: line 12-CD-7 piping
PROD00022036	6/17/2009 Email from J. Ritter to C.J. Sansome and B. Slack re: pipes 12-CL-67 and 68
PROD00022037	3/16/2009 Email from J. Connors to D. Malek, M. Smutny, and J. Ritter re: heat stress environment in turbine building post-HELB
PROD00022038	3/8/2009 Email from J. Ritter to D. Malek and R. Best re: Action items
PROD00022039	3/8/2009 Email from J. Ritter to D. Malek and R. Best re: Action items
PROD00022040	2/5/2009 Email from J. Ritter to B. Horner, W. Hadeka, and L. Johnson re: CVCS system
PROD00022041	3/19/2009 Email from R. Best to D. Malek, M. Smutny, D. Herling, and J. Ritter re: NRC Response Form revisions
PROD00022042	NRC Question Response Form re: evaluation of 12-MS-35 operating history
PROD00022043	NRC Question Response Form re: operator response to fire alarms associated with a HELB
PROD00022044	NRC Question Response Form re: operations staffing during plant operation
PROD00022045	1/28/2009 Email from J. Ritter to D. Malek re: addendum to Success of Standby Charging Pump During Loss of CC Event
PROD00022046	7/15/2009 Email from J. Ritter to J. Julius, J. Grobbelaar, and others re: preliminary NRC white finding
PROD00022047	2/25/2009 Email from L. Kozak at NRC to J. Ritter re: Additional information for CC/HELB SDP
PROD00022048	2/25/2009 Email from M. Huting to J. Ritter re: Additional information for CC/HELB SDP
PROD00022049	5/6/2009 Email from J. Ritter to S. Skoyen re: Admin help with CC/HELB SDP document collection
PROD00022050	3/16/2009 Email from J. Ritter to M. Smutny and D. Malek re: operations question for CC/HELB action
PROD00022051	3/16/2009 Email from M. Smutny to J. Ritter and D. Malek re: operations question for CC/HELB action
PROD00022052	3/5/2009 Email from J. Ritter to T. Bacon re: operations question for CC/HELB
PROD00022053	3/9/2009 Email from T. Bacon to J. Ritter re: operations question for CC/HELB
PROD00022054	3/5/2009 Email from T. Bacon to J. Ritter re: operations question for CC/HELB
PROD00022055	5/6/2009 Email from J. Ritter to J. Carver re: question for CC/HELB SDP

Document Number	Description
PROD00022056	5/6/2009 Email from M. Smutny to J. Ritter re: question for CC/HELB SDP
PROD00022057	6/3/2009 Email from R. Best to D. Malek and others at Xcel re: Jet impingement
PROD00022058	6/3/2009 Email from D. Malek to R. Best and J. Ritter re: Jet impingement
PROD00022059	4/6/2009 Email from J. Ritter to B. Slack re: report on CC piping in TB from HELB events
PROD00022060	4/6/2009 Email from J. Ritter to B. Slack re: CC piping in TB from HELB events
PROD00022061	4/6/2009 Email from J. Ritter to B. Slack re: CC piping in TB from HELB events
PROD00022062	4/6/2009 Email from J. Ritter to B. Slack re: CC piping in TB from HELB events
PROD00022063	4/4/2009 Email from J. Ritter to A. Setlur at AES Engineering, B. Slack, and C. Agan re: CC piping in TB from HELB events
PROD00022064	4/3/2009 Email from J. Ritter to A. Setlur at AES Engineering re: CC piping in TB from HELB events
PROD00022065	4/6/2009 Email from B. Slack to J. Ritter re: CC piping in TB from HELB events
PROD00022066	4/6/2009 Email from B. Slack to J. Ritter re: CC piping in TB from HELB events
PROD00022067	4/6/2009 Email from B. Slack to J. Ritter re: CC piping in TB from HELB events
PROD00022068	4/6/2009 Email from B. Slack to J. Ritter re: CC piping in TB from HELB events
PROD00022069	4/6/2009 Email from B. Slack to J. Ritter re: CC piping in TB from HELB events
PROD00022070	3/1/2009 Summary of Component Cooling Water/Turbine Building Issue Risk Significance
PROD00022071	1/20/2009 Memo from B. Horner to S. Northard re: CC piping adjacent to HELB location and related CAP
PROD00022072	Notes from 3/9/2009 discussion with Jack Geissner from NRC
PROD00022073	6/4/2009 Email from J. Ritter to R. Best re: calculation file for SDP for cooling
PROD00022074	2/16/2009 Email from P. Knoespel at EPM, Inc. to R. Rohrer and others at Xcel re: calculation of HEP for swap of RMU tanks
PROD00022075	5/9/2009 Email from J. Ritter to R. Best and D. Malek re: calculation of CC surge tank draindown time
PROD00022076	6/2/2009 Email from J. Ritter to D. Henry, B. Slack, and others re: jet impingement analysis of cooling water lines
PROD00022077	6/3/2009 Email from B. Slack to J. Ritter, D. Henry, and others re: jet impingement analysis
PROD00022078	1/20/2009 Email from J. Ritter to M. Loosbrock, B. Horner, and M. Brossart re: CC/HELB issue - use of X-connect valves
PROD00022079	1/19/2009 Email from J. Ritter to M. Loosbrock re: CC/HELB issue - use of X-connect valves
PROD00022080	2/18/2009 Email from C. Gjermo to J. Ritter re: CC/HELB issue - use of X-connect valves
PROD00022081	1/20/2009 Email from B. Horner to M. Loosbrock and J. Ritter re: CC/HELB questions
PROD00022082	NRC Question Response Form re: HELB and seismic analysis
PROD00022083	2/2/2009 Email from C. Gjermo to J. Ritter and D. Fricke re: CC piping in turbine building
PROD00022084	3/15/2009 Email from J. Ritter to K. Den Herder, D. Malek, and others at Xcel re: CC/HELB
PROD00022085	NRC Question Response Form re: 12-MS-25 line (De-aerating Steam Line)
PROD00022086	3/15/2009 Email from K. Den Herder to D. Malek, J. Ritter, and others at Xcel re: CC/HELB
PROD00022087	2/27/2009 Email from J. Ritter to J. Olvera at EPM, Inc. re: CC/HELB MAAP question from NRC
PROD00022088	Chart titled RCP Seal LOCA - Liquid Leakage Rate
PROD00022089	2/27/2009 Email from J. Olvera at EPM, Inc. to J. Ritter and J. Masterlark re: CC/HELB MAAP question from NRC

Document Number	Description
PROD00022090	Completed NRC Question Response Form re: operational history of 12-MS-25 line (De-aerating Steam Line)
PROD00022091	6/5/2009 Email from J. Ritter to R. Best and D. Malek re: CC/HELB report edits
PROD00022092	6/5/2009 Email from R. Best to J. Ritter and D. Malek re: CC/HELB report edits
PROD00022093	3/26/2009 Email from J. Ritter to J. Olvera and P. Knoespel re: CC/HELB SDP additional MAAP analysis
PROD00022094	3/20/2009 Email from J. Ritter to J. Olvera and P. Knoespel re: CC/HELB SDP additional MAAP analysis
PROD00022095	3/27/2009 Email from J. Ritter to P. Knoespel and J. Olvera re: CC/HELB SDP additional MAAP analysis
PROD00022096	3/26/2009 Email from J. Ritter to P. Knoespel and J. Olvera re: CC/HELB SDP additional MAAP analysis
PROD00022097	3/25/2009 Email from J. Olvera to J. Ritter re: CC/HELB SDP additional MAAP analysis
PROD00022098	3/24/2009 Email from J. Olvera to J. Ritter re: CC/HELB SDP additional MAAP analysis
PROD00022099	3/23/2009 Email from J. Olvera to J. Ritter re: CC/HELB SDP additional MAAP analysis
PROD00022100	3/16/2009 Email from J. Olvera at EPM, Inc. to J. Ritter and P. Knoespel re: CC/HELB SDP additional MAAP analysis
PROD00022101	3/26/2009 Email from P. Knoespel at EPM, Inc. to J. Olvera and J. Ritter re: CC/HELB SDP additional MAAP analysis
PROD00022102	5/11/2009 Email from J. Ritter to J. Carver re: CC/HELB SDP question on tornado event
PROD00022103	5/11/2009 Email from J. Ritter to J. Carver re: CC/HELB SDP question on tornado event
PROD00022104	5/13/2009 Email from M. Smutny to J. Ritter re: CC/HELB SDP question on tornado event
PROD00022105	3/10/2009 Memo from D. Malek from S. Northard re: status of turbine building HELB/CC piping SDP
PROD00022106	Power Point presentation titled CC/HELB NRC Meeting (6/3/2009)
PROD00022107	10/20/2009 Email from J. Ritter to M. Smutny, J. Carver, and T. Borgen re: CL flooding due to HELB and meeting with fire brigade chiefs
PROD00022108	10/22/2009 Email from M. Smutny to J. Ritter, J. Carver, and T. Borgen re: CL flooding due to HELB and meeting with fire chief brigade
PROD00022109	10/20/2009 Email from M. Smutny to J. Ritter and J. Carver re: CL flooding due to HELB and meeting with fire chief brigade
PROD00022110	6/24/2009 Email from J. Ritter to J. Carver re: CL flooding question
PROD00022111	6/23/2009 Email from J. Ritter to J. Carver re: CL flooding question
PROD00022112	6/24/2009 Email from P. Knoespel at EPM, Inc. to J. Ritter and T. Asmus re: CL flooding question
PROD00022113	4/25/2009 Email from J. Ritter to B. Slack re: Collection of HELB piping data
PROD00022114	Spreadsheet titled RCP Seal LOCA Timing
PROD00022115	7/13/2009 Email from J. Ritter to J. Carver re: NRC findings and results
PROD00022116	3/26/2009 Email from J. Ritter to B. Horner, D. Malek, R. Best, and L. Johnson re: containment and RCS pressure
PROD00022117	1/9/2009 Email from B. Slack to J. Ritter and S. Ford re calculation for CC tank draindown time following HELB in turbine building
PROD00022118	7/2/2009 Email from J. Ritter to C. Koehler re incorporating backflow from CL return header into flooding scenario
PROD00022119	7/2/2009 Email from C. Koehler to J. Ritter re operator actions to stop CL flooding
PROD00022120	7/2/2009 Email from C. Koehler to J. Ritter re incorporation of contribution of CL flow in flooding scenario
PROD00022121	6/15/2009 Email from J. Ritter to D. Malek re comments to write-up for NRC question 5 response
PROD00022122	Write-up for response to NRC question 5 re flow rates used in flooding scenario

Document Number	Description
PROD00022123	6/16/2009 Email from D. Malek to J. Ritter re comments to write-up for NRC question 5 response
PROD00022124	Write-up for response to NRC question 5 re flow rates used in flooding scenario
PROD00022125	6/15/2009 Email from D. Malek to J. Ritter re revisions to D. Potter's write-up for NRC Question 5
PROD00022126	Response to Question 5 for NRC form re flow rates used in flooding scenario
PROD00022127	5/20/2009 Email from J. Ritter to J. Olvera of EPM re timeline for final report on analysis of HELB/CCW simulation runs
PROD00022128	5/20/2009 Email from J. Olvera of EPM to J. Ritter re revision to draft analysis report for HELB/CCW simulation runs
PROD00022129	5/13/2009 Email from J. Ritter to J. Olvera re draft analysis report for HELB with loss of CCW simulation runs
PROD00022130	6/17/2009 Email from J. Ritter to D. Malek re responses to comments on draft NRC response form
PROD00022131	6/10/2009 NRC Question Response form re documents provided and questions answers re CCW/Turbine building SDP
PROD00022132	6/17/2009 Email from R. Best to J. Ritter re comments on draft NRC response form
PROD00022133	6/10/2009 NRC Question Response Form re information on FAC screening
PROD00022134	6/17/2009 Email from R. Best to J. Ritter re comments on draft of NRC response form
PROD00022135	6/17/2009 Email from R. Best to J. Ritter re progress on completion of NRC response form
PROD00022136	2/27/2009 Email from J. Ritter to T. Bacon re Draft Summary of HELB/CC procedure progression and operation actions
PROD00022137	2/27/2009 Summary of Xcel Analysis Performed: PINGP Component Cooling Water/Turbine Building Issue Risk Significance
PROD00022138	5/6/2009 Email from J. Ritter to K. Kriesel re documents for Dynamic Stress Analysis of the FW/CD piping
PROD00022139	5/5/2009 Email from J. Ritter to D. Smith re plant response plots for ECA-1.1 actions simulation
PROD00022140	5/5/2009 Email from J. Ritter to D. Smith re actions factored into LOCA procedure model
PROD00022141	5/5/2009 Email from J. Ritter to D. Smith re factoring dumping of SI accumulators into LOCA model
PROD00022142	5/5/2009 Email from J. Ritter to J. Olvera of EPM re parameters used in simulation to generate LOCA plots
PROD00022143	5/5/2009 Email from J. Olvera to J. Ritter re results of simulator runs for LOCA with loss of CCW
PROD00022144	Graphs depicting results from EPM simulator runs of RCP seal LOCA with loss of CCW
PROD00022145	5/4/2009 email from J. Olvera of EPM to J. Ritter re results of simulator runs for LOCA with loss of CCW
PROD00022146	Graphs depicting relative parameters for LOCA with loss of CCW
PROD00022147	5/5-4/2009 Email from J. Ritter to J. Olvera of EPM re depressurization procedure following LOCA
PROD00022148	5/3/2009 Email from J. Ritter to J. Olvera of EPM re depressurization procedure following LOCA
PROD00022149	3/17/2009 Email from K. Vincent to J. Ritter re flooding in the turbine building
PROD00022150	1/28/2009 Email from J. Ritter to D. Smith re interpretation of figure ECA11-1 in procedure manual
PROD00022151	1/29/2009 Email from D. Smith to J. Ritter re procedure to remove SG heat following LOCA due to HELB
PROD00022152	1/28/2009 Email from D. Smith to J. Ritter re removal of decay heat during LOCA following HELB
PROD00022153	4/17/2009 Email from J. Loesch to J. Ritter re operator training frequency
PROD00022154	11/14/2008 Email from J. Ritter re P. Knoespel re interpretation of HELB break size categories
PROD00022155	1/23/2009 Email from J. Ritter to K. DenHerder re response to NRC questions about FAC components
PROD00022156	12/17/2008 Email from J. Ritter to K. DenHerder re pipe composition for CC/HELB assessment
PROD00022157	4/4/2009 Email from J. Ritter to K. Flemming of TI-SD re calculations for HELB pipe failure rates
PROD00022158	3/30/2009 Email from J. Ritter to K. Flemming of TI-SD re draft report on HELB failure rates

Document Number	Description
PROD00022159	4/4/2009 Email from K. Flemming to J. Ritter re HELB pipe break frequency calculations
PROD00022160	7/13/2009 Email from A. Limaye to B. Horner re NRC review of MRP report
PROD00022161	6/5/2009 Email from D. Malek to R. Rohrer re models to use in CC/HELB for SDP report
PROD00022162	5/14/2009 Email from R. Best to W. Djordjevic of S & A re GH structure analysis for final report on PINGP external event fragility
PROD00022163	5/2009 Draft report - External Event Fragilities for Component Cooling System in Turbine Building prepared by S & A
PROD00022164	3/11/2009 Email from J. Ritter to W. Scholberg re condensate pump activity following HELB
PROD00022165	3/11/2009 Email from W. Scholberg to J. Ritter re condensate pump activity following HELB
PROD00022166	Procedure for monitoring degradation of CW piping expansion joints
PROD00022167	3/31/2009 Email from W. Scholberg to J. Ritter re flooding impact on the turbine building from a postulated HELB break in the FW lines
PROD00022168	4/21/2009 Email from B. Slack to J. Ritter re pipe break analysis
PROD00022169	3/31/2009 Email from K. Flemming of TI-SD to J. Peterson re pipe break analysis report
PROD00022170	V.SPA.08.008 - Addendum 8 - HELB Pipe Break Frequency Calculations
PROD00022171	11/17/2008 Email from J. Ritter to P. Knoespel re EPRI report for modeling HELB
PROD00022172	12/1/2008 Email from J. Ritter to R. Best and D. Malek re HELB component count and break frequency calculation
PROD00022173	3/25/2009 Email from J. Olvera of EPM to J. Ritter re pressures used in HELB modeling
PROD00022174	3/25/2009 Email from P. Knoespel of EPM to J. Ritter re cooling water flow for modeling HELB
PROD00022175	6/17/2009 Email from J. Ritter to B. Horner re response to NRC questions
PROD00022176	6/10/2009 NRC Question Response Form re information on component screening
PROD00022177	6/17/2009 Email from B. Horner to J. Ritter re information for NRC response
PROD00022178	Table summarizing history of high temperature o-ring use at PINGP
PROD00022179	3/19/2009 Email from J. Ritter to K. Slingsby re data for modeling natural cool down event
PROD00022180	3/18/2009 Email from J. Ritter to L. Lisson re cool down information for modeling Natural Cool down Event
PROD00022181	6/3/2009 Email from D. Malek to R. Best re documents for human reliability analysis post HELB initiating event
PROD00022182	List of documents for human reliability analysis of HELB procedures
PROD00022183	5/6/2009 Email from J. Ritter to B. Horner re O-ring ultimate failure pressure for LOCA modeling
PROD00022184	5/10/2009 Email from J. Ritter to M. Smutny and T. Borgen re HELB scenario for human reliability training
PROD00022185	4/30/2009 Email from J. Ritter to J. Carver HELB scenario for human reliability training
PROD00022186	6/16/2009 Email from D. Malek to J. Ritter re HELB/CC piping interactions
PROD00022187	6/4/2009 Email from J. Ritter to D. Malek and R. Best re HELB Design Basis Break criteria
PROD00022188	V.SPA.08.008 Addendum 8, Part 2 - HELB pipe break frequency using HELB design basis break criteria
PROD00022189	6/4/2009 Email from R. Best to J. Ritter re HELB Initiating Event Frequency Calculations
PROD00022190	5/18/2009 Email from J. Ritter to J. Loesch re training scenario CC-2
PROD00022191	5/18/2009 Email from J. Ritter to J. Loesch re operator training frequency
PROD00022192	5/18/2009 Email from J. Ritter to J. Loesch re operator training frequency
PROD00022193	5/18/2009 Email from J. Ritter to J. Loesch re operator training frequency

Document Number	Description
PROD00022194	5/18/2008 Email from J. Ritter to J. Loesch re training frequency and 7/2008 revision of EO-11SF-1
PROD00022195	5/18/2009 Email from J. Loesch to J. Ritter re operator training frequency
PROD00022196	5/18/2009 Email from J. Loesch to J. Ritter re operator training frequency
PROD00022197	5/18/2008 Email from J. Ritter to J. Loesch re Job performance testing frequency
PROD00022198	5/18/2009 Email from J. Loesch to J. Ritter re Job performance training frequency
PROD00022199	3/19/1996 Job Performance Measure Worksheet
PROD00022200	1/19/2009 Letter from Xcel Energy to NRC re LER 2-08-01 Unanalyzed Condition Due to Both Trains of Component Cooling Being Susceptible to a Postulated HELB Supplement 1
PROD00022201	Loss of Shutdown Cooling While in an Outage Risk Impact
PROD00022202	4/1/2009 Email from J. Ritter to J. Olvera of EPM re post LOCA modeling parameters
PROD00022203	4/1/2009 Email from J. Ritter to J. Olvera of EPM re documentation for post LOCA modeling
PROD00022204	3/30/2009 Email from J. Ritter to J. Olvera of EPM re comments on post LOCA modeling
PROD00022205	3/28/2009 Email from J. Ritter to J. Olvera of EPM re post LOCA modeling
PROD00022206	4/1/2009 Email from J. Olvera of EPM to J. Ritter re post LOCA modeling
PROD00022207	3/30/2009 Email from J. Olvera of EPM to J. Ritter re post LOCA modeling
PROD00022208	4/28/2009 Email from J. Ritter to J. Olvera re modeling cool down and depressurization procedures post LOCA
PROD00022209	4/27/2009 Email from J. Ritter to J. Olvera of EPM re post LOCA modeling
PROD00022210	4/26/2009 Email from J. Ritter to J. Olvera of EPM re runs of post LOCA models
PROD00022211	4/26/2009 Email from J. Ritter to J. Olvera of EPM re post LOCA modeling
PROD00022212	1/30/2009 Email from J. Ritter to J. Olvera of EPM re post LOCA modeling
PROD00022213	1/29/2009 Email from J. Ritter to J. Olvera of EPM re post LOCA modeling
PROD00022214	1/29/2009 Email from J. Ritter to J. Olvera and others at EPM re additional modeling parameters
PROD00022215	1/30/2009 Email from J. Ritter to J. Olvera of EPM re post LOCA modeling
PROD00022216	1/29/2009 Email from J. Ritter to J. Olvera of EPM re modeling post LOCA procedures
PROD00022217	1/11/2008 2ES-1.1 Rev. 18 Post LOCA procedure manual
PROD00022218	3/9/2009 Email from J. Olvera to J. Ritter re modeling LOCA post HELB/CC event
PROD00022219	3/4/2009 Email from J. Olvera to J. Ritter re modeling operator response following HELB
PROD00022220	Procedure steps re LOCA response
PROD00022221	4/29/2009 Email from J. Ritter to J. Olvera re modeling operator actions in HELB scenario
PROD00022222	6/11/2009 Email from J. Ritter to D. Malek re comments on draft NRC response
PROD00022223	6/10/2009 NRC Question Response Form re requested documents and descriptions
PROD00022224	6/11/2009 Email from R. Best to D. Malek re update to NRC response
PROD00022225	6/11/2009 Email from D. Malek to J. Ritter cc R. Best re responses to comments re NRC request
PROD00022226	6/10/2009 NRC Question Response Form re requested documents and descriptions
PROD00022227	6/11/2009 Email from D. Malek to J. Ritter cc R. Best re NRC information request
PROD00022228	6/10/2009 NRC Question Response Form re requested documents and descriptions
PROD00022229	6/11/2009 Email from D. Malek to R. Best re NRC call summary

Document Number	Description
PROD00022230	6/10/2009 Summary of Discussion with NRC
PROD00022231	Notes for power point presentation to NRC re CCHELB information submittal
PROD00022232	Additional notes for power point presentation to NRC re CCHELB information submittal
PROD00022233	Management update to 3/9/2009 discussion with Jack Geissner (NRC) on CC/HELB SDP issues
PROD00022234	02/05/2009 Email from J Ritter to B Slack re NRC question about HELB lines
PROD00022235	06/17/2009 Email from J Ritter to R Best and B Horner re reference 33 in SDP summary report
PROD00022236	11/10/2009 Email from B Horner to J Ritter re Operator response time for CC/HELB Scenario SDP comparison
PROD00022237	02/17/2009 Email from J Ritter to J Hanson answering questions re operator review of RMW pump operation and tank swap over
PROD00022238	02/04/2009 Email from J Ritter to R Best re PI MAAP run files for Level I issues for RG 1-200
PROD00022239	05/01/2009 Email from D Smith to J Ritter re PI SDP Simulator Runs
PROD00022240	04/24/2009 Email from J Julius to J Grobbelaar & J Ritter re PI SDP Simulator Runs and PINGP procedures
PROD00022241	08/03/2009 Email from D Malek to Stan Guokas and J Ritter re removal of CC dependency for sump recirculation
PROD00022242	12/19/2008 Email from J Ritter to B Horner re potential NCR questions (RCP Pump Cooling and Charging verses CC)
PROD00022243	12/19/2008 Email from J Ritter to B Horner re potential NRC question on RCP pump cooling
PROD00022244	V.SPA.08.008, Addendum 5 Volume Control Tank Simulator Case Study
PROD00022245	02/10/2009 Email from J Ritter to B Horner re additional information provided to the NRC on CC/HELB SDP questions
PROD00022246	02/11/2009 Email from J Ritter to K DenHerder re discussion of NRC potential information request
PROD00022247	02/11/2009 Email from J Ritter to K DenHerder re additional information sent to the NRC on the success criteria for LOCA
PROD00022248	04/07/2009 Email from J Ritter to J Olvera re PRA calculations
PROD00022249	04/06/2009 Email from J Ritter to J Olvera re small LOCA event tree
PROD00022250	04/05/2009 Email from J Ritter to J Olvera re proposed revalidation method
PROD00022251	04/07/2009 Email from J Olvera to J Ritter re PRA calculation differences
PROD00022252	04/06/2009 Email from J Olvera to J Ritter re rerunning the SDP cases HELBREC with the final FIA parameter file
PROD00022253	04/05/2009 Email from J Olver to J Ritter re differences in the FAI parameter file
PROD00022254	03/18/2009 Email from J Ritter to R Best et al re content of proposal of seismic and tornado
PROD00022255	04/24/2009 Email from J Ritter to tja@epm-inc.com re HEP to isolate the CL line break in the turbine building
PROD00022256	04/27/2009 Email from J Ritter to J Olvera re MAAP Run results, cases 1&2
PROD00022257	06/05/2009 Email from D Malek to R Best & J Ritter re proposed statements on the CC piping
PROD00022258	06/23/2009 Email from C Sansome to J Ritter re CL evaluation questions
PROD00022259	06/10/2009 NRC Question response form requested by K Stoedter and P Zurawski
PROD00022260	06/10/2009 NRC Question Response Form from K Stoedter and P Zurawski
PROD00022261	06/17/2009 mail from J Ritter to B Slack and D Malek re response to NRC about preliminary flow rate results
PROD00022262	06/17/2009 Email from J Ritter to B Slack and D Malek re response to NRC, change to comments
PROD00022263	06/17/2009 E mail from J Ritter to B Slack and D Malek re changes to the NRC response
PROD00022264	Question re flow rates from the NRC and response

Document Number	Description
PROD00022265	06/17/2009 Email from J Ritter to B Slack re suggested changes to NRC question 5
PROD00022266	Question from the NRC re flow rates and response
PROD00022267	06/17/2009 Email from J Ritter to B Slack and D Malek re response to NRC
PROD00022268	NRC question and reply re flow rates for the CL system
PROD00022269	Response to NRC request for cooling water break scenarios and flow-rates
PROD00022270	06/17/2009 Email from J Ritter to B Slack and D Malek re response to NRC questions 6/17/2009 email from J. Ritter to B. Slack re: NRC response regarding potential CL break scenarios
PROD00022271	6/17/2009 email from B. Slack to D. Malek, J. Ritter re: NRC response regarding potential pipe interaction failures
PROD00022272	06/17/2009 Email from B Slack to D Malek and J Ritter re response to NRC questions
PROD00022273	Table 10 - Summary of CC-HELB Piping Interactions on CL Piping
PROD00022274	06/17/2009 Email from B Slack to D Malek and J Ritter re response to NRC questions
PROD00022275	06/17/2009 Email from B Slack to D Malek and J Ritter re response to NRC questions
PROD00022276	06/29/09 Email from J Ritter to R Best and D Malek re AFW pump room flooding and comments in the AFW notebook
PROD00022277	06/03/2009 Email from J Ritter to K Fleming re HELB/Jet Impingement Design Criteria
PROD00022278	06/03/2009 Email from J Ritter to K Fleming re HELB pipe break failure rate data
PROD00022279	10/31/2009 Email from J Riter to R Best & D Malek re letdown isolation following normal trip
PROD00022280	1/11/2009 Email from J Ritter to B Horner re response to the NRC's question on RCP Seal LOCA
PROD00022281	responses to follow up questions re SAMA RAIs for PINGP
PROD00022282	02/09/2009 Email from D Malek to J Ritter re responses to NRC questions re turbine building HELB/CC piping interaction questions
PROD00022283	Direction to operators to manually align the RWST to charging pump suction
PROD00022284	04/07/2009 Email from J Grobbelaar to J Ritter re discussion of the HEP for transfer to high head recirculation
PROD00022285	04/28/2009 Email from J Ritter to W Hadeka and B Horner re report for the operability evaluation of the PINGP SI sump bearing and shaft seals
PROD00022286	06/12/2009 Email from S Skoyen to J Ritter, D Malek and B Horner re report comments for the MPR analyses
PROD00022287	04/01/2009 Email from J Ritter to T Borgen re discussion of CC HELB scenarios/event consequences
PROD00022288	V.SPA.08.008, Addendum 4 - Remove CC dependency for SI and RHR system fault trees prepared by D Malek 04/25/2009
PROD00022289	V.SPA.09.001 Calculation to determine the time when cooling is in service during a refueling outage prepared by J Ritter 01/25/2009
PROD00022290	07/17/2009 Email from M Huting to J Ritter re NCR white finding on CC/HELB
PROD00022291	07/17/2009 Email from J Ritter to M Huting re NRC white finding on CC/HELB
PROD00022292	White paper for CCHELB outcome and continued efforts
PROD00022293	Calculation of the draindown time of the CC surge tank following a pipe break in the turbine building
PROD00022294	05/18/2009 Email from J Ritter to D Malek and R Best re LER RHR Gas Voiding and the suggested safety significance
PROD00022295	Regulatory correspondence review and approval record for LER 1-09-04, Non-conforming condition due to RHR system gas voiding

Document Number	Description
PROD00022296	02/23/2009 Email from D Malek to J Grobbelaar & J Ritter re discussion of RMU HEP and valve closure situations
PROD00022297	02/22/2009 Email from D Malek to J Ritter re discussion of RMU HEP and valve closure situations
PROD00022298	02/20/2009 Email from D Malek to J Grobbelaar & J Ritter re discussion of RMU Help, alarms and accident scenarios
PROD00022299	02/20/2009 Email from D Malek to J Grobbelaar and J Ritter re RMU Help, transition valves to the turbine building
PROD00022300	02/19/2009 Email from D Malek to J Grobbelaar and J Ritter re RMU HEP, CC line going to the turbine building
PROD00022301	02/19/2009 Email from D Malek to J Grobbelaar & J Ritter re RMU HEP, valves used to isolate U2 CC lines
PROD00022302	03/02/2009 Email from J Ritter to B Horner and C Lethgo re RMU tank roof and caution 3.1
PROD00022303	NRC Question response form, CC/HELB SDP information
PROD00022304	02/25/2009 Email from J Ritter to B Horner re response to the NRC re the RMU tank roof
PROD00022305	02/16/2009 Email from D Malek to J Ritter re analysis for the Unit 2 RMW System failure probability
PROD00022306	03/03/2009 Email from J Ritter to M Smutny re RWST refill levels during an accident
PROD00022307	03/03/2009 Email from M Smutny to J Ritter re RWST re RWST refill levels during an accident
PROD00022308	05/02/2009 Email from J Ritter to J Olvera and R Best re RHR pumps and RWST depletion
PROD00022309	06/11/2009 Email from R Best to D Malek & J Ritter re summary and discussion of NRC conference call on 6/10/09
PROD00022310	01/18/2009 Email from J Ritter to J Masterlark and J Olvera re discussion of O-Rings used in the CC/HELB SDP
PROD00022311	01/15/2009 Email from J Ritter to W Hadeka, B Horner and L Johnson re SI pump availability for SDP analysis
PROD00022312	03/11/2009 Email from B Horner to J Gehlar, J Ritter and D Malek re running a simulator case study on loss of CC and impact on VCT
PROD00022313	03/13/2009 Email from J Ritter to M Smutny and D Malek re questions on simulator for CC and affected SI pump
PROD00022314	05/03/2009 Email from J Ritter to B Horner, D Malek and R Best re discussion of the revised executive summary section of a MPR report
PROD00022315	05/03/2009 Email from J Ritter to R Best re RHR flow information for MPR report
PROD00022316	05/03/2009 Email from J Ritter to R Best and D Malek re information on ultimate limiting temperatures in the sump for the executive summary of the report
PROD00022317	11/07/2008 Email from J Ritter to R Rohrer, J Masterlark, M Brossart and S Skoyen re 11/06/2009 conference call discussing information requested by the NRC
PROD00022318	11/07/2009 Email from J Ritter to P Knoespel re discussion of SDP information requested by the NRC
PROD00022319	11/07/2009 Email from J Ritter to P Knoespel re summary of SDP discussion with the NRC
PROD00022320	06/05/2009 Email from J Ritter to R Best re CC/HELB information requested by the NRC
PROD00022321	06/05/2009 Email from R Best to J Ritter re information requested by the NRC, CC/HELB interactions with CL piping
PROD00022322	03/21/2009 Email from D Malek to J Ritter re discussion of spent fuel pool/component cooling lines
PROD00022323	02/12/2009 Email from S Myers to J Ritter re sending a temperature sensitivity study to the NRC
PROD00022324	07/10/2009 Email from D Malek to R Rohrer and J Ritter re conference call and accepting a NRC white finding
PROD00022325	03/18/2009 Email from B Slack to W Scholberg et al re fire protections lines during HELB events
PROD00022326	02/10/2009 Email from J Ritter to D Smith re discussion of possible scenarios with HELB and CC piping interactions
PROD00022327	02/05/2009 Email from J Ritter to J Kempkes, B Horner and T Bacon re questions on the CVCS system
PROD00022328	03/05/2009 Email from D Smith to J Ritter and T Bacon re SI Pump running due to a LOCA, Q&A

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PROD00022329	02/09/2009 Email from D Smith to J Ritter re how operators are directed to perform a manual swap of the RWST when automatic actions fail
PROD00022330	02/06/2009 Email from J Kempkes to J Ritter, B Horner and T Bacon re what operators do when MV-320260 cannot be opened remotely or locally
PROD00022331	02/06/2009 Email from J Kempkes to B Horner, J Ritter, L Johnson and T Bacon re single charging pump operation during normal operation
PROD00022332	02/05/2009 Email from J Kempkes to B Horner, J Ritter and T Bacon re procedures for charging pumps during failures
PROD00022333	directions to operators to manually align the RWST to charging pump suction
PROD00022334	02/06/2009 Email from B Horner to J Kempkes, J Ritter, L Johnson, and T Bacon re single charging pump operation during normal operation
PROD00022335	02/06/2009 Email from T Asmus (tja@epm_inc.com) to J Ritter re procedures or training that direct if MV-32060 fails to open
PROD00022336	02/04/2009 Email from J Ritter to M Wadley and B Horner re TDAFW Pump HEP issues
PROD00022337	01/15/2009 Email from J Ritter to B Horner re size of CC piping
PROD00022338	03/19/2009 Email from J Ritter to K Den Herder re clarifying questions on 12-CD-7
PROD00022339	Email from K DenHerder to J Ritter re questions about HELB lines
PROD00022340	03/12/2009 Email from J Ritter to K DenHerder re 12-CD-7 and the FAC Program
PROD00022341	02/04/2009 Email from M Wadley to J Ritter re reasons for CC/HELB walkthroughs
PROD00022342	03/09/2009 Email from D Smith to D Malek and J Ritter re explanation of his answer to Action 31 from NRC request.
PROD00022343	Write up of available information re temperatures and pressures in the turbine building.
PROD00022344	01/15/2009 Email from B Slack to B Horner, J Ritter & L Johnson re 1" lines from out of the cold chem lab
PROD00022345	02/04/2009 Email from Tom Asmus (tja@epm-inc.com) to J Ritter re discussion of walkthrough operations
PROD00022346	11/20/2009 Email from J Ritter to R Best re RMW area questions, HELB in the Turbine Building
PROD00022347	Scenario for loss of offsite power during full power operations
PROD00022348	05/08/2009 Email from J Ritter to J Grobbelaar re update to HEP - OLRCPVC11XY
PROD00022349	Memo to J Ritter re update on the latest priorities on HRA actions
PROD00022350	11/24/2008 Email from J Ritter to R Best and D Malek re write-up on the RMW operation action
PROD00022351	RMW Tank Data
PROD00022352	V.SPA.08.008 Component Cooling Piping Interaction with Turbine Building HELB Piping Significance Determination Process prepared by J Ritter 11/24/2008
PROD00022353	05/29/2009 Email from J Ritter to J Grobbelaar re update to OLRCPVC11XY report
PROD00022354	06/04/2009 Email from J Ritter to R Best and D Malek re HELB IEF Update
PROD00022355	06/04/2009 Email from R Best to J Ritter and D Malek re questions about HELB IE data
PROD00022356	06/04/2009 Email from R Best to J Ritter & D Malek re HELB IE data and NRC opinion
PROD00022357	6/3/2009 Email from J Ritter to R Best & D Malek re changes made to V SPA 08 008/ET Notebook
PROD00022358	6/3/2009 V.SPA.08.008, Addendum 12 CC-HELB SDP Event Trees
PROD00022359	6/2/2009 Email from R Best to J Ritter and D Malek re changes made to V SPA 08 008 Addendum 12

Document Number	Description
PROD00022360	V.SPA.08.008, Addendum 12 CC-HELB SDP Event Trees 06/30/2009
PROD00022361	V.SPA.08.008, Addendum 12 CC-HELB SDP Event Trees 06/30/2009
PROD00022362	Verification form for V.SPA.08.008, Addendum 12 CC-HELB SDP Event Trees
PROD00022363	V.SPA.08.008, Addendum 8 HELB Pipe Break Frequency Calculation
PROD00022364	V.SPA.09.001, Calculation to determine the time when cooling is in service during a refueling outage
PROD00022365	03/04/2009 Email from B Horner to J Ritter re VCT simulator case performed for letdown isolation
PROD00022366	03/08/09 draft memo to S Northard from D Malek re CAP01145695 - CC piping in the Unit 1& 2 Turbine Building
PROD00022367	Chart identifying and analyzing events that will possibly need corrective action
PROD00022368	02/27/2009 Email from J Ritter to R Best re WR 43211
PROD00022369	Xcel Power point presentation, "CCHELB/Flooding Program Direction" 05/11/2009
PROD00022370	01/14/2009 Email from J Ritter to J O'Farrill re preliminary SDP update on CC/HELB
PROD00022371	02/12/2009 Email from M Huting to J Ritter re Update on the preliminary CC/HELB SDP assessment date
PROD00022372	02/12/2009 Email from J Ritter to M Huting re update on the preliminary CC/HELB SDP assessment date
PROD00022373	Evaluation of Reactor Makeup Water Logic Change
PROD00022374	Scenario for Unit 2 RMU system remaining available following a Unit 1 HELB event
PROD00022375	05/30/2009 Email from J Ritter to D Malek & R Best re calculations for summary write up of seismic and tornado results
PROD00022376	V.SPA.08.008, Addendum 4 External Event Fragilities for Seismic and Tornado Events
PROD00022377	V.SPA.08.008, Addendum 2 - SDP Quantification
PROD00022378	letter from Randy Best to Walter re: request for proposal to support Prairie Island turbine building systems seismic risk analysis
PROD00022379	CC-HELB SDP Option 1 Draft A
PROD00022380	CC-HELB Option 2 Draft A
PROD00022381	CC/HELB assumptions
PROD00022382	CC / HELB analysis
PROD00022383	6/5/2009 PINGP Component Cooling Water / Turbine Building Issue Risk Significance - Summary of Xcel Energy Analysis Performed
PROD00022384	6/4/2009 letter from Sulzer Pumps to Steve Skoyen re: review of past operability report
PROD00022385	5/27/2009 Memo from Dave Malek to Kevin Ryan re: Communicate status of the turbine building HELB / CC piping significant determination process to Station Management
PROD00022386	3/2009 Action assignments
PROD00022387	Significance Determination Process (SDP) Questions Component Cooling Line Interactions with HELB Piping in the Turbine Building
PROD00022388	3/1/2009 PINGP Component Cooling Water / Turbine Building Issue Risk Significance - Summary of Xcel Analysis Performed
PROD00022389	2/5/2009 email from J. Ritter to J. Olvera re: pump operation during CC/HELB event simulation
PROD00022390	3/3/2009 email from J. Ritter to B. Horner re: simulator case study of loss of CC and impact on VCT
PROD00022391	4/29/2009 Simulator case notes

Document Number	Description
PROD00022392	3/11/2009 email from J. Ritter to T. Borgen, M. Halverson, S. Seilhymer re: HELB / CC Simulator Scenario development
PROD00022393	3/9/2009 email from J. Ritter to T. Borgen, M. Halverson re: proposal for HELB / CC simulator case study
PROD00022394	Initiating Event Resulting in a Unit 2 loss of Component Cooling, chart
PROD00022395	5/2/2009 email from R. Rohrer to D. Malek, J. Ritter, and others at Xcel re: summary of meeting to address NRC treatment of Prairie Island's CC-HELB issue
PROD00022396	3/20/2009 email from J. Ritter to D. Malek Re: spent fuel pool / CC lines discussion
PROD00022397	2/5/2009 email from B. Horner to J. Kempkes re: turbine building HELB / CC piping interaction questions
PROD00022398	Unit 1 and Unit 2 Component importance ranked by risk achievement worth
PROD00022399	3/8/2009 memo from David Malek to Scott Northard re: HELB/CC piping significant determination process
PROD00022400	1/29/2009 memo from Ben Horner to Scott Northard re: communicate status of the turbine building HELB/CC piping significance determination process to Station Management
PROD00022401	2/5/2009 memo from Ben Horner to Scott Northard RE: Communicate status of the turbine building HELB/CC piping significance determination process to Station Management
PROD00022402	HELB simulation discussion/time-line
PROD00022403	Unit 1 HELB Pipe Break Calculation (Linear Foot Method)
PROD00022404	6/4/2009 V.SPA.08.008, Addendum 8, Part 1 - HELB Pipe Break Frequency Calculation Based on HELB Design Basis Criteria
PROD00022405	HELB data
PROD00022406	PDA Driven Turbine Building Flooding Events
PROD00022407	5/28/2009 V.SPA.08.008, Addendum 8 - HELB Pipe Break Frequency Calculation
PROD00022408	6/5/2009 V.SPA.08.008, Addendum 12 - CC-HELB SDP Event Trees
PROD00022409	HELB Piping data
PROD00022410	V.SPA.08.008, Addendum 8 - HELB Pipe Break Frequency Calculation
PROD00022411	V.SPA.08.008, Addendum 9 - Operator walkdowns and simulator runs for component cooling piping interaction with turbine building HELB piping significance determination process
PROD00022412	V.SPA.08.008, Addendum 12 6/5/2009 CC-HELB SDP Event Trees
PROD00022413	V.SPA.08.008, Addendum 4 Remove CC dependency for SI and RHR system fault trees
PROD00022414	3/1/2009 email from J. Ritter to R. Best Re: VCT draindown timing and effect on CC
PROD00022415	1/26/2009 email from J. Ritter to tja@epm-inc.com Re: HELB calculations
PROD00022416	HELB event analysis
PROD00022417	06/07/2008 CC/HELB NRC Meeting, PowerPoint
PROD00022418	2/13/2009 SDP summary of open issues - radioactive shipment and potential loss of component cooling water due to HELB
PROD00022419	Fusetron Dual-Element, Time-Delay Fuses Class RK5 - 250 Volt
PROD00022420	Transformer Technical data, terminology, and FAQs
PROD00022421	Fuseology - Dual-Element Fuse Benefits

Document Number	Description
PROD00022422	Open Core and Coil Transformers
PROD00022423	Bussman Non Time-Delay Fuse Operation
PROD00022424	GE Combination Starter Basics
PROD00022425	Current (amps) and Energy
PROD00022426	CC HELB affect on opposite unit RMUP overloads
PROD00022427	Evaluation to determine whether Unit 2 RMU pumps will continue to operate in temperature conditions caused by a loss of the Component Cooling Systems due to a HELB in the opposite Unit.
PROD00022428	Evaluation to determine whether Unit 2 RMU pumps will continue to operate in temperature conditions caused by a loss of the Component Cooling Systems due to a HELB in the opposite Unit.
PROD00022429	Evaluation to determine whether Unit 2 RMU pumps will continue to operate in temperature conditions caused by a loss of the Component Cooling Systems due to a HELB in the opposite Unit.
PROD00022430	Guide for Electric Motor Stator winding Insulation Design, Testing and VPI Resin Treatment
PROD00022431	NEMA Standards Publication No. ICS 1-2000 (R2005, R2008) - Industrial Control and Systems Requirements
PROD00022432	NEMA Standards Publication No. ICS 2-2000 (R2005) - Industrial Control and Systems Controllers, Contractors and Overload Relays Rated 600 Volts
PROD00022433	Unit 1 Reactor Make-Up System Control
PROD00022434	ETAP Powerstation User Guide Version 4.0
PROD00022435	ETAP Powerstation User Guide Version 4.0
PROD00022436	480 Volt Motor Control Center
PROD00022437	Motor Control Centers, 1RD1, 1RD2, 1ED, 2EC, 1UAA
PROD00022438	D5/D6 Building Motor Control Center
PROD00022439	Undated EC 13857 evaluation to determine whether Unit 2 RMU pumps will continue to operate in temperature conditions caused by loss of Component Cooling system due to HELB in opposite unit.
PROD00022440	3/4/2009 Email from Bob S., Component Support at GE to Robert Flaaen re: motor control center environment
PROD00022441	1990 GE Combination Starter Basics- A guide to understanding and selling combination starters
PROD00022442	Undated EC 13857 portions of evaluation to determine whether Unit 2 RMU pumps will continue to operate in temperature conditions caused by loss of Component Cooling system due to HELB in opposite unit.
PROD00022443	8/3/1983 Specification File Record 480 Volt Motor Control Center File No. E25002
PROD00022444	8/3/1983 Specification File Record Motor Control Centers- Unit 2 File No. E 25003
PROD00022445	10/2004 Guide of Electric Motor Stator Winding Insulation Design, Testing and VPI Treatment, EPRI Technical Update
PROD00022446	Undated documents re: CC HELB affect on opposite Unit RMUP
PROD00022447	3/4/2009 Email From Steve Swain, GE Hitachi Nuclear Energy, to Robert Flaaen, PINGP re: Motor Starter operating in high heat
PROD00022448	3/4/2009 Email From Steve Swain, GE Hitachi Nuclear Energy, to Robert Flaaen, PINGP re: Derating of components operating in high heat
PROD00022449	3/25/2009 Email from Rick Mella to Ronald Whitlock re: overload de-rate at 22A, estimate of trip time

Document Number	Description
PROD00022450	2/22/2009 Letter from M. Schimmel to J. Muth and others at Xcel re: response to 9/11/2009 letter requesting a response on incorrectly completing Corrective Actions to Prevent Recurrence associated with Action Request 01188360
PROD00022451	3/4/2010 email from J. Kivi to L. Kuehl re: CAP Initiation
PROD00022452	1/19/2009 email from J. Carver to M. Loosbrock re: Manipulation of cross-connect valves relative to Cooling Component HELB Issue
PROD00022453	6/11/2010 NOS Observation Report # 2010-02-027 Assessment of CC HELB as input/preparation for the 95001 Inspection
PROD00022454	Undated memo re: CC HELB 95001 Inspection Preparation and items that need to be attended to prior to Inspection
PROD00022455	6/1/2010 Spreadsheet tracking progress of CC HELB review
PROD00022456	Undated memo re: CC HELB Pre-95001 Inspection Preparation and proper timing and documentation by CAPs
PROD00022457	Undated memo re: CC HELB Pre-95001 Inspection Preparation and proper timing and documentation by CAPs
PROD00022458	Undated memo re: CC HELB Pre-95001 Inspection Preparation and lack of documentation in Completion Notes for personnel to provide for sustainability of HELB Program
PROD00022459	Undated memo re: CC HELB Pre-95001 Inspection Preparation Assessment
PROD00022460	Undated memo re: CC HELB Pre-95001 Inspection Preparation and discrepancies in Corrective Actions identified in the review
PROD00022461	Undated memo re: CC HELB Pre-95001 Inspection Preparation and proper documentation in Completion Notes of CA-01145695 activities
PROD00022462	Undated memo re: CC HELB Pre-95001 Inspection Preparation and insufficient HELB Design Basis documentation
PROD00022463	Undated memo re: CC HELB 95001 Inspection Preparation and proper tracking of Engineering line budget items
PROD00022464	Undated memo re: CC HELB 95001 Inspection Preparation and proper tracking of Engineering line budget items
PROD00022465	Undated memo re: CC HELB Pre-95001 Inspection Assessment
PROD00022466	Undated memo re: CC HELB Pre-95001 Inspection Assessment Exit Meeting
PROD00022467	Undated memo CC HELB Pre-95001 Inspection Preparation, list of Issues topics
PROD00022468	Undated memo re: CC HELB Pre-95001 Inspection Preparation and Review of Root Cause Evaluation report (CAP-01145695)
PROD00022469	Undated spreadsheet indicating status of items identified in Pre 95001 preparation
PROD00022470	9/4/2009 Post Inspection Critique Turbine Driven Auxiliary Feedwater Pump
PROD00022471	6/11/2010 Email from William Kappes to Darin Rippentrop re: comments on CC HELB OR review
PROD00022472	6/10/2010 Action Items from CC HELB Challenge Board
PROD00022473	Undated PowerPoint re: Component Cooling Water System High Energy Line Break 95-001 Inspection June 14-18, 2010
PROD00022474	Undated PowerPoint re: Component Cooling Water System High Energy Line Break 95-001 Inspection June 14-18, 2010
PROD00022475	3/26/2010 Email from William Kappes to Darin Rippentorp re: performing a Readiness Assessment relating to CC/HELB

Document Number	Description
PROD00022476	6/02/2010 Email from Darin Rippentorp to Thomas Roddey re: wrong document uploaded as The resource plan for CC HELB
PROD00022477	6/17/2010 Email from Joe Muth to DL-PI-QA-QC re: daily progress list of CC-HELB Inspection
PROD00022478	Undated Design Description Form re: capping CC piping system in Cold Chemistry Lab
PROD00022479	6/9/2010 Email from Thomas Roddey to Michael Vestal re: correcting in -progress notes for cutting an capping CC to Cold Chemistry Lab
PROD00022480	Undated Memo: Exit Meeting Pre-95001 Inspection Assessment-CC HELB
PROD00022481	Undated review of non-fleet programs to develop program basis documents and capture highlights in one location
PROD00022482	Undated PowerPoint re: Component Cooling Water System High Energy Line Break 95-001 Inspection June 14-18, 2010
PROD00022483	6/10/2010 Email from Kevin to Sam DiPasquale and others re: CC-HELB Challenge Board proper documentation of CAPs
PROD00022484	6/04/2010 Email from Thomas Roddey to Darin Rippentorp re: adding information to the business case about flooding and HELB design bases
PROD00022485	6/2/2010 Email from Mark Huting to Darin Rippentorp re: proper documentation of CA and CAPs related to CC HELB Assessment
PROD00022486	6/2/2010 Email from Mark Huting to Darin Rippentorp re: changes to the CAP about the CC HELB Assessment
PROD00022487	6/3/2010 Email from Thomas Roddey to Darin Rippentorp re: changes to the draft CAP concerning the CC HELB Assessment
PROD00022488	3/26/2010 Email from Joe Muth to William Kappes and Darin Rippentorp re: performance of the CC/HELB Readiness Assessment
PROD00022489	3/27/2010 Email from William Kappes to Joe Muth and Darin Rippentorp re: timing of CC HELB Assessment
PROD00022490	3/27/2010 Email from Joe Muth to William Kappes and others re: timing of CC HELB Assessment
PROD00022491	6/2/2010 Email from Thomas Roddey to Darin Rippentorp re: documentation of completion notes on CC HELB
PROD00022492	6/8/2010 Email from Thomas Roddey to Sam DiPasquale re: responsibility for CA reporting on status of Pre-95001 Inspection Assessment
PROD00022493	Allis Chalmers Instruction Book
PROD00022494	6/16/2004 PINGP Engineering Manual- Electrical Construction Standards
PROD00022495	EQ Splices
PROD00022496	600 V Motor Terminations for Okonite Cable Only (page 17)
PROD00022497	3/11/2005 General Electric - Electrical Cable - Approval Sheet
PROD00022498	2/11/2005 United Controls Intl' Inc. Tape Splice
PROD00022499	3/11/2005 Environmental Qualification Summary Checklist Okonite/ Electrical Cable/ Insulation
PROD00022500	3/11/2005 Environmental Qualification Summary Checklist Okonite/ Electrical Cable/ Insulation
PROD00022501	1/8/2004 DBD Change Notice regarding turbine building
PROD00022502	5/16/2007 DBD Change Notice regarding Cooling Water System with handwritten notes
PROD00022503	12/12/2008 B12A Chemical and Volume Control

Document Number	Description
PROD00022504	3/9/2009 Design Information Transmittal regarding past operability evaluation of U2 reactor make up
PROD00022505	3/9/2009 Design Information Transmittal regarding past operability evaluation of U2 reactor make up/ Action Request Report
PROD00022506	3/9/2009 Design Information Transmittal regarding past operability evaluation of U2 reactor make up
PROD00022507	3/9/2009 Design Information Transmittal regarding past operability evaluation of U2 reactor make up
PROD00022508	Summary of Unit 2 Reactor makeup pump motor and MCC source breaker
PROD00022509	3/18/2009 Design Information Transmittal past operability evaluation of U2 reactor make up
PROD00022510	3/13/2009 Design Information Transmittal past operability evaluation of U2 reactor make up
PROD00022511	3/23/2009 Design Information Transmittal regarding past operability evaluation of UT reactor make up
PROD00022512	3/18/2009 Design Information Transmittal past operability evaluation of U2 reactor make up
PROD00022513	3/23/2009 Design Information Transmittal past operability evaluation of U2 reactor make up
PROD00022514	3/18/2009 Design Information Transmittal past operability evaluation of U2 reactor make up
PROD00022515	3/24/2009 Design Information Transmittal past operability evaluation of U2 reactor make up
PROD00022516	3/25/2009 Design Information Transmittal past operability evaluation of U2 reactor make up
PROD00022517	3/25/2009 Design Information Transmittal past operability evaluation of U2 reactor make up
PROD00022518	3/30/2009 Design Information Transmittal past operability evaluation of U2 reactor make up
PROD00022519	Notes from S. Roberto regarding details associated with power cables and motor terminations associated with Unit 2 Reactor Makeup
PROD00022520	S. Roberto notes regarding details associated with power cables and motor terminations and Unit 2 reactor makeup
PROD00022521	S. Roberto notes regarding details associated with power cables and motor terminations and Unit 2 reactor makeup
PROD00022522	Blueprint/ Diagram with undecipherable legend
PROD00022523	3/30/2009 Design Information Transmittal past operability evaluation of U2 reactor makeup
PROD00022524	3/12/2009 Prairie Island Turbine Building 695 Elevation HELB Temperature Relative Humidity Sensitivity Study
PROD00022525	3/31/2009 letter from K. Iepson to S. Roberto regarding Iepson Consulting Enterprises Assessment for reactor make-up pump motors and electrical power supply components
PROD00022526	3/6/2009 letter from K. Jepson to S. Roberto regarding Iepson Consulting Enterprises technical support for development of a past-operability analysis for the prairie island nuclear generating plant
PROD00022527	3/6/2009 letter from to S. Roberto regarding Iepson Consulting Enterprises technical support for development of a past-operability analysis for the prairie island nuclear generating plant
PROD00022528	3/30/2009 Design Review Comment Form titled IEPSON document function assessment for the reactor makeup pumps
PROD00022529	3/30/2009 Design Review Comment Form titled IEPSON document function assessment for the reactor makeup pumps
PROD00022530	3/20/2009 letter from K. Iepson to S. Roberto regarding Iepson consulting enterprises and function assessment for reactor make up pump motors
PROD00022531	3/25/2009 letter from K. Iepson to S. Roberto regarding consulting and functional assessment for the reactor make-up pump motors and the associated electrical power supply components; technical assessment regarding the same
PROD00022532	Technical Report Functional Assessment For the Reactor Make-up Pumps, motors, and the Associated Electrical Power Supply Components

Document Number	Description
PROD00022533	3/30/3009 Technical Report Function Assessment for the Reactor Make-up pumps, motors, and the associated electrical power supply components
PROD00022534	10/18/1989 Data File Revision Control Form
PROD00022535	7/31/2003 Engineering Evaluation / Critical Design Characteristics Evaluation
PROD00022536	4/22/1999 MCC Test Form
PROD00022537	3/16/1994 MCC Test Form
PROD00022538	Maintenance history for breakers and motors
PROD00022539	3/11/2009 memorandum from D. Malek to S. Northard regarding status of turbine building HELB/ CC piping significant determination process to Station Management
PROD00022540	3/11/2009 memorandum from D. Malek to S. Northard regarding status of turbine building HELB/ CC piping significant determination process to Station Management
PROD00022541	Chart regarding MCC offsite environmental testing
PROD00022542	CC HELB affect on opposite unit RMUP breakers by R. Whitlock
PROD00022543	CC HELB affect on opposite unit RMUP breakers preliminary evaluation
PROD00022544	CC HELB affect on opposite unit RMUP preliminary evaluation
PROD00022545	CC HELB affect on opposite unit RMUP preliminary evaluation
PROD00022546	CC HELB affect on opposite unit RMUP by R. Whitlock
PROD00022547	CC HELB affect on opposite unit RMUP by R. Whitlock
PROD00022548	Photo Related to CC/HELB White Finding
PROD00022549	Photo Related to CC/HELB White Finding
PROD00022550	Photo Related to CC/HELB White Finding
PROD00022551	Photo Related to CC/HELB White Finding
PROD00022552	Photo Related to CC/HELB White Finding
PROD00022553	Photo Related to CC/HELB White Finding
PROD00022554	Photo Related to CC/HELB White Finding
PROD00022555	Photo Related to CC/HELB White Finding
PROD00022556	Photo Related to CC/HELB White Finding
PROD00022557	Photo Related to CC/HELB White Finding
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PROD00022559	Photo Related to CC/HELB White Finding
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PROD00022561	Photo Related to CC/HELB White Finding
PROD00022562	Photo Related to CC/HELB White Finding
PROD00022563	Photo Related to CC/HELB White Finding
PROD00022564	Photo Related to CC/HELB White Finding
PROD00022565	Photo Related to CC/HELB White Finding
PROD00022566	Photo Related to CC/HELB White Finding

Document Number	Description
PROD00022567	Photo Related to CC/HELB White Finding
PROD00022568	Photo Related to CC/HELB White Finding
PROD00022569	Photo Related to CC/HELB White Finding
PROD00022570	Photo Related to CC/HELB White Finding
PROD00022571	Photo Related to CC/HELB White Finding
PROD00022572	Photo Related to CC/HELB White Finding
PROD00022573	Photo Related to CC/HELB White Finding
PROD00022574	Photo Related to CC/HELB White Finding
PROD00022575	Photo Related to CC/HELB White Finding
PROD00022576	Photo Related to CC/HELB White Finding
PROD00022577	Photo Related to CC/HELB White Finding
PROD00022578	Photo Related to CC/HELB White Finding
PROD00022579	Photo Related to CC/HELB White Finding
PROD00022580	Photo Related to CC/HELB White Finding
PROD00022581	Photo Related to CC/HELB White Finding
PROD00022582	Photo Related to CC/HELB White Finding
PROD00022583	Photo Related to CC/HELB White Finding
PROD00022584	Photo Related to CC/HELB White Finding
PROD00022585	Photo Related to CC/HELB White Finding
PROD00022586	Photo Related to CC/HELB White Finding
PROD00022587	Photo Related to CC/HELB White Finding
PROD00022588	Photo Related to CC/HELB White Finding
PROD00022589	Photo Related to CC/HELB White Finding
PROD00022590	Photo Related to CC/HELB White Finding
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PROD00022594	Photo Related to CC/HELB White Finding
PROD00022595	Photo Related to CC/HELB White Finding
PROD00022596	Photo Related to CC/HELB White Finding
PROD00022597	Photo Related to CC/HELB White Finding
PROD00022598	Photo Related to CC/HELB White Finding
PROD00022599	Photo Related to CC/HELB White Finding
PROD00022600	Photo Related to CC/HELB White Finding
PROD00022601	Evaluation of Reactor Makeup Pump
PROD00022602	Blueprint/ Diagram: Power Supply
PROD00022603	Motor Control Center diagram

Document Number	Description
PROD00022604	Circuit Diagram Motor Control Center
PROD00022605	Motor Control Center Diagram
PROD00022606	Wiring Diagram- Motor Control Center
PROD00022607	External Connections- Motor Control Center 2D
PROD00022608	Turbine Building Elevation 695-0 Diagram
PROD00022609	10/31/2000 Station Auxiliary Switchgear
PROD00022610	Prairie Island Technical Manual Control System- Reactor Makeup Pump
PROD00022611	4/19/1996 Motor Control Centers: Unit images
PROD00022612	3/18/2009 PINGP Work Plan - Measure the Unit 2 RMU Flows to CC Surge Tank and VCT
PROD00022613	EC13857 - Evaluation of whether Unit 2 RMU Pumps will continue to operate in the temperature conditions caused by CC loss due to HELB
PROD00022614	CC HELB Effect in Opposite Unit RMUP Overloads
PROD00022615	1/30/2009 Email from R. Whitlock to S. Skoyen re Assistance with CC HELB (motor issue)
PROD00022616	EC13857 - Evaluation of whether Unit 2 RMU Pumps will continue to operate in the temperature conditions caused by CC loss due to HELB
PROD00022617	EC13857 - Evaluation of whether Unit 2 RMU Pumps will continue to operate in the temperature conditions caused by CC loss due to HELB
PROD00022618	3/2/2009 Email from R. Whitlock to S. McCall et al. re EC13857 - Evaluation of whether Unit 2 RMU Pumps will continue to operate in the temperature conditions caused by CC loss due to HELB
PROD00022619	3/31/2009 Technical Report - Functional Assessment for the Reactor Make-Up Pumps, Motors, and the Associated Electrical Power Supply Components
PROD00022620	3/3/2009 Email from R. Whitlock to S. Robert re RMU System Equipment Qualification Summary Info
PROD00022621	2/2009 Prairie Island Turbine Building 695' Elevation HELB Temperature Sensitivity Study
PROD00022622	2/2009 Prairie Island Turbine Building 695' Elevation HELB Temperature Sensitivity Study, Attachment A
PROD00022623	Data Sheet for WR 43211
PROD00022624	3/18/2009 Email from S. Roberto to D. Butwin with others cc'd re EX 13962
PROD00022625	3/4/2009 Email from R. Whitlock to S. Roberto re Evaluation of EC13857
PROD00022626	4/2/2009 50.59 Screening: Measure Unit 2 RMU Flows to CC Surge Tank and VCT for PRA
PROD00022627	3/2/2009 Email from J. Ritter to R. Mella & R. Whitlock with M. Brossart cc'd re RMU System Equipment Qualification Summary Info
PROD00022628	Completion Comments for Minor WR 00043194
PROD00022629	chart listing missed opportunities to identify the significance of the HELB issue
PROD00022630	change analysis chart of potential HELB interactions between 2005 and 2008
PROD00022631	corrective action matrix for HELB recovery plan
PROD00022632	memo re: Mark Reddman's comments abbot Cc and HELB safety issues
PROD00022633	7/29/2008 RCE Report re: component cooling piping adjacent to HELB location in turbine building
PROD00022634	7/29/2008 RCE Report re: component cooling piping adjacent to HELB location in turbine building

Document Number	Description
PROD00022635	7/29/2008 RCE Report re: component cooling piping adjacent to HELB location in turbine building
PROD00022636	7/29/2008 RCE Report re: component cooling piping adjacent to HELB location in turbine building
PROD00022637	7/29/2008 RCE Report re: component cooling piping adjacent to HELB location in turbine building
PROD00022638	7/29/2008 RCE Report re: component cooling piping adjacent to HELB location in turbine building
PROD00022639	7/29/2008 RCE Report re: component cooling piping adjacent to HELB location in turbine building
PROD00022640	7/29/2008 RCE Report re: component cooling piping adjacent to HELB location in turbine building
PROD00022641	7/29/2008 RCE Report re: component cooling piping adjacent to HELB location in turbine building
PROD00022642	7/29/2008 RCE Report re: component cooling piping adjacent to HELB location in turbine building
PROD00022643	10/30/2008 PING RCE Report re: radioactive shipment exceeding DOT limits
PROD00022644	10/30/2008 PING RCE Report re: radioactive shipment exceeding DOT limits
PROD00022645	10/30/2008 PING RCE Report re: radioactive shipment exceeding DOT limits
PROD00022646	10/30/2008 PING RCE Report re: radioactive shipment exceeding DOT limits
PROD00022647	10/30/2008 PING RCE Report re: radioactive shipment exceeding DOT limits
PROD00022648	6/10/2010 email from Jon Anderson to Sam DiPasqualea and others re: root cause for HELB issues and inadequate management of the turbine building
PROD00022649	2/14/2010 RCE Report Evaluation re: the component cooling system next to the HELB location in the turbine building
PROD00022650	7/29/2008 PINGP RCE Report re: component cooling piping adjacent to HELB location
PROD00022651	2/22/2010 email from Scott Northard to Jeff Connors and others re: development of a process to identify ongoing safety issues
PROD00022652	Corrective action matrix re: HELB recovery plan and resource needs
PROD00022653	7/29/2008 PING RCE Report re: component cooling pipe adjacent to HELB location in turbine building
PROD00022654	7/29/2008 PING RCE Report re: component cooling pipe adjacent to HELB location in turbine building
PROD00022655	7/29/2008 PING RCE Report re: component cooling pipe adjacent to HELB location in turbine building
PROD00022656	2/23/2010 email from Scott Northard to David Kettering re: concerns over CC/HELB and the corrective action procedures
PROD00022657	1/2/2009 memo from Michael Lantz re: shipping container with possible dangerous dosage readings
PROD00022658	undated memo re: shipping container with possible dangerous dosage readings
PROD00022659	2/25/2009 email from Robert Hite to Pete Wildenborg re: contaminated shipments and particle considerations
PROD00022660	undated position paper re: the 'actual' exposure rate of a shipment from PING to Waltz Mill on 10/29/2008
PROD00022661	undated report re: PINGP's response to questions about the 2009 radioactive materials shipment
PROD00022662	2/27/2009 email from Scott Nelson to Peter Wildenborg and others re: the procedures for shipping radioactive material
PROD00022663	Analysis of shipment of radioactive materials events
PROD00022664	Narrative of radioactive material shipment incident
PROD00022665	Narrative of radioactive material shipment incident
PROD00022666	Narrative of radioactive material shipment incident
PROD00022667	Reports to External Agencies & the NMC Sites
PROD00022668	Operating experience program guidance

Document Number	Description
PROD00022669	Radioactive Material Shipment Exceeds DOT Limits (Prairie Island)
PROD00022670	Nuclear Network keyword search results for Radioactive Material Shipment
PROD00022671	Operating experience event descriptions
PROD00022672	Operating experience event descriptions
PROD00022673	Operating experience event descriptions
PROD00022674	Analysis of internal and external radiological shipping deficiencies
PROD00022675	Analysis of internal and external radiological shipping deficiencies
PROD00022676	Description of radiological shipping deficiencies
PROD00022677	Administrative Work Instruction: Work Activity Risk Management
PROD00022678	Administrative Work Instruction: Work Activity Risk Management
PROD00022679	Administrative Work Instruction: Work Activity Risk Management
PROD00022680	Administrative Work Instruction: Work Activity Risk Management
PROD00022681	Initial Radiological Safety Risk Characterization
PROD00022682	Initial Radiological Safety Risk Characterization
PROD00022683	Initial Radiological Safety Risk Characterization
PROD00022684	Radiation Protection Procedures: Radioactive Materials Shipment-LSA/SCO/LTD Qty in Exclusive Use Vehicle - To a Licensed Processing Facility
PROD00022685	Radiation Protection Procedure: Radioactive Materials Shipment - Certified Containerized Waste to Envirocare of Utah
PROD00022686	Radiation Protection Procedure: Radioactive Materials Shipment-LLRW to Bulk Waste Disposal Facility of Envirocare of Utah
PROD00022687	Radiation Protection Procedure: Radioactive Materials Shipment-N.O.S.-Other than irradiated Fuel-Not Exceeding HRCQ
PROD00022688	Radiation Protection Procedure: Radioactive Materials Shipment-LSA/SCO/LTD Qty to a Licensed Facility
PROD00022689	Radiation Protection Procedure: Radioactive Materials Shipment-LSA/SCO/LTD Qty to a Licensed Facility
PROD00022690	Radiation Protection Procedures: Mixed Low-Level Radioactive and Hazardous Waste (Mixed LLW) Shipment
PROD00022691	Radiation Protection Procedures: Radioactive Materials Shipment-LSA/SCO/LTD Qty in Exclusive Use Vehicle-To A Licensed Processing Facility
PROD00022692	Radiation Protection Procedure: Radioactive Materials Shipment-Old Steam Generator Upper and Lower Assemblies
PROD00022693	Radiation Protection Procedure: Radioactive Materials Shipment-Certified Containerized Waste to Energy Solutions of Utah
PROD00022694	Radiation Protection Procedure: Radioactive Materials Shipment-Certified Containerized Waste to Envirocare of Utah
PROD00022695	Radiation Protection Procedure: Radioactive Material Shipment-LLRW to Bulk Waste Disposal Facility of Envirocare of Utah
PROD00022696	Radiation Protection Procedures: Radioactive Materials Shipment Greater Than Type A Quantities in Exclusive Use Vehicle to Barnwell, CS Using Chem-Nuclear Cask and Hic Liner
PROD00022697	Radiation Protection Procedures: Radioactive Materials Shipment Greater Than Type A Quantities in Exclusive Use Vehicle to Barnwell, CS Using RWE Nukem Cask and Hic Liner

Document Number	Description
PROD00022698	Radiation Protection Procedure: Radioactive Materials Shipment-Other Than Irradiated Fuel-Not Exceeding HRCQ
PROD00022699	Radiation Protection Procedure: Radioactive Materials Shipment-N.O.S.-Other Than Irradiated Fuel-Not Exceeding HRCQ
PROD00022700	Radiation Protection Procedure: Radioactive Materials Shipment-LSA/SCO/LTD Qty to a Licensed Facility
PROD00022701	Radiation Protection Procedure: Radioactive Materials Shipment Irradiated Components-Greater Than Type A-In Exclusive Use Vehicle to Barnwell, SC Using Chem-Nuclear CNS 3-55 Cask & Liner
PROD00022702	Radiation Protection Procedure: Radioactive Materials Shipment LSA/SCO-Quantities in Exclusive Use Vehicle to Barnwell, SC
PROD00022703	Radiation Protection Procedure: Radioactive Materials Shipment
PROD00022704	Pacific Gas and Electric Company Nuclear Power Generation Diablo Canyon Power Plant Radiation Control Procedure
PROD00022705	9/18/2008 Radiation Protection Job Planning
PROD00022706	10/5/2007 Complex Work Procedure
PROD00022707	1/16/2009 Status of Radioactive Materials Shipment Procedure Guidelines
PROD00022708	1/22/2009 Status of Radioactive Materials Shipment Procedure Guidelines
PROD00022709	1/22/2009 Status of Radioactive Materials Shipment Procedure Guidelines
PROD00022710	1/23/2009 Status of Radioactive Materials Shipment Procedure Guidelines
PROD00022711	1/26/2009 Status of Radioactive Materials Shipment Procedure Guidelines
PROD00022712	1/26/2009 Status of Radioactive Materials Shipment Procedure Guidelines
PROD00022713	1/27/2009 Status of Radioactive Materials Shipment Procedure Guidelines
PROD00022714	1/27/2009 Status of Radioactive Materials Shipment Procedure Guidelines
PROD00022715	1/28/2009 Status of Radioactive Materials Shipment Procedure Guidelines
PROD00022716	1/16/2009 Status of Radioactive Materials Shipment Procedure Guidelines
PROD00022717	1/14/2009 New Document Request Form for Packaging of Radioactive Material for Shipment
PROD00022718	Radiation Protection Implementing Procedure: Hot Particle Program
PROD00022719	Radiation Protection Implementing Procedure: Discrete Radioactive Particle Program
PROD00022720	Radiation Protection Implementing Procedure: Discrete Particle Program
PROD00022721	Radiation Protection Implementing Procedure: Hot Particle Program
PROD00022722	Radiation Protection Implementing Procedure: Packaging of Radioactive Material for Shipment
PROD00022723	Radiation Protection Implementing Procedure: Packaging of Radioactive Material for Shipment
PROD00022724	New procedure to address corrective actions for RCE #01157726
PROD00022725	Radiation Protection Implementing Procedure: Loading LSA Boxes/Sealand Containers
PROD00022726	Radiation Protection Implementing Procedure: Discrete Radioactive Particle Program
PROD00022727	Radiation Protection Implementing Procedure: Packaging of Radioactive Material for Shipment
PROD00022728	Pacific Gas and Electric Company Nuclear Power Generation Diablo Canyon Power Plant Radiation Control Procedure
PROD00022729	Radiation Protection Implementing Procedure
PROD00022730	Radiation Protection Implementing Procedure
PROD00022731	Radiation Protection Implementing Procedure

Document Number	Description
PROD00022769	Photo Related to Transportation White Finding
PROD00022770	Photo Related to Transportation White Finding
PROD00022771	Image of photo files
PROD00022772	Photo Related to Transportation White Finding
PROD00022773	Photo Related to Transportation White Finding
PROD00022774	Photo Related to Transportation White Finding
PROD00022775	Photo Related to Transportation White Finding
PROD00022776	Photo Related to Transportation White Finding
PROD00022777	Photo Related to Transportation White Finding
PROD00022778	Photo Related to Transportation White Finding
PROD00022779	Radioactive Materials Shipping Program issue - contributing causes
PROD00022780	Cause brainstorming session - radioactive shipment issue
PROD00022781	Corrective Actions to Restore and interim Corrective Actions -Radioactive Materials Shipping Program
PROD00022782	2/6/2009 Corrective Actions to Prevent Recurrence and Effectiveness Reviews - Radioactive Materials Shipping Program
PROD00022783	2/6/2009 Cause to Action Matrix - Radioactive Materials Shipping Program
PROD00022784	2/6/2009 Cause to Action Matrix - Radioactive Materials Shipping Program
PROD00022785	Corrective Actions to Prevent Recurrence - Radioactive Materials Shipping Program
PROD00022786	2/1/2009 Corrective Actions to Prevent Recurrence - Radioactive Materials Shipping Program
PROD00022787	2/14/2009 Cause to Action Matrix - Radioactive Materials Shipping Program
PROD00022788	2/14/2009 Cause to Action Matrix - Radioactive Materials Shipping Program
PROD00022789	2/14/2009 Cause to Action Matrix - Radioactive Materials Shipping Program
PROD00022790	2/14/2009 Cause to Action Matrix - Radioactive Materials Shipping Program
PROD00022791	Cause to Action Matrix - Radioactive Materials Shipping Program
PROD00022792	Root cause evaluation of the Radioactive Materials Shipping Program
PROD00022793	Root cause evaluation of the Radioactive Materials Shipping Program
PROD00022794	Root cause evaluation of radioactive shipment issue
PROD00022795	Root cause evaluation of radioactive shipment issue
PROD00022796	Root Cause - Radiation Protection and Chemistry procedures do not describe the methods required to successfully evaluate, package, and ship materials in accordance with 49CFR173 and 10CFR71
PROD00022797	11/11/2008 Internal Operating Experience Report
PROD00022798	9/24/2008 Work Order Package: SIP Fuel Assemblies to Support Cask Loading
PROD00022799	12/12/2008 Action Request Report
PROD00022800	7/10/2001 Kewaunee Assessment Process
PROD00022801	Analysis of radiological material shipment incident
PROD00022802	11/6/2008 AR Screening Report
PROD00022803	7/31/2007 Westinghouse Nuclear Services Environment, Health and Safety Training Course Outline

Document Number	Description
PROD00022804	NRC Cross-Cutting Issue Potential
PROD00022805	10/5/1999 Radiation Protection Procedure: Radioactive Materials Shipment - LSA/SCO/LTD Qty to a Licensed Facility, Revision 12
PROD00022806	12/4/2003 Radiation Protection Procedure: Radioactive Materials Shipment - LSA/SCO/LTD Qty to a Licensed Facility, Revision 14
PROD00022807	12/4/2003 Radiation Protection Procedure: Radioactive Materials Shipment - LSA/SCO/LTD Qty to a Licensed Facility, Revision 14
PROD00022808	4/12/2006 Radiation Protection Procedure: Radioactive Materials Shipment - LSA/SCO/LTD Qty to a Licensed Facility, Revision 15
PROD00022809	4/12/2006 Radiation Protection Procedure: Radioactive Materials Shipment - LSA/SCO/LTD Qty to a Licensed Facility, Revision 15
PROD00022810	5/14/2007 Radiation Protection Procedure: Hazardous and Nonhazardous Materials Storage, Disposal and Labeling Requirements, Revision 11
PROD00022811	9/30/2008 Temporary change Request: Regulated Waste Management
PROD00022812	Discrete particle characterization spreadsheet
PROD00022813	11/14/2008 Email from W. Vogel to S. Nelson & C. Sweet re DRP isotopic analysis, with Radiological Survey Record
PROD00022814	10/23/2008 ED dose rates spreadsheet
PROD00022815	Position Paper: assessment of the "actual" exposure rate at the location corresponding to the discrete particle on the bottom surface of the shipping container sent on 10/29/2008
PROD00022816	1/2/2009 Effective Dose Equivalent Rate from Surface of the Shipping Container
PROD00022817	9/5/2008 Document Traveler: Procedure Use and Adherence
PROD00022818	9/18/2008 Temporary Change Request: RP Job Planning
PROD00022819	1/14/2009 PINGP Chemistry Department Spectrum Analysis: Cable Speck
PROD00022820	12/17/2007 Westinghouse Nuclear Services Environment, Health & Safety: Training Course Outline: Hazmat Transportation Training Courses
PROD00022821	Technical Basis for Public Radiation Safety Significance Determination Process
PROD00022822	Information and fact sources re radioactive shipments
PROD00022823	Site Notice re teleconference btw NRC and PINGP staff re results of review of 10/29/2008 radioactive equipment shipment
PROD00022824	Westinghouse, Nuclear Services/Field Services Vacuum Canister Shipping Services brochure
PROD00022825	10/17/2006 Letter from J. Portsmouth with EnergySolutions to E. Mazzullo with the Office of Hazardous Materials Standards, US Department of Transportation and response 1/17/2007 Letter from .. with US Department of Transportation, Pipeline and Hazardous Materials Safety Administration to J. Portsmouth with EnergySolutions re Requirements for transporting Cass 7 (radioactive) material
PROD00022826	11/12-14/2008 Observations from Waltz Mill Facility - Second Week
PROD00022827	12/31/2008 List of AR Reports initiated from 1/1/2007 to 12/31/2008
PROD00022828	Checklist for Hazardous Material/Hazardous Waste Shipment

Document Number	Description
PROD00022829	Evaluation of Safety Culture Impacts, Revision 0
PROD00022830	Radwaste Personnel Resource Summary
PROD00022831	3/29/2006 Radiation Protection Procedure: Mixed Low-Level Radioactive and Hazardous Waste (Mixed LLW) Shipment, Revision 8
PROD00022832	4/10/2006 Radiation Protection Procedure: Radioactive Materials Shipment - LSA/SCO/LTD Qty in Exclusive Use Vehicle - To a Licensed Processing Facility, Revision 10
PROD00022833	4/12/2006 Radiation Protection Procedure: Radioactive Materials Shipment - Old Steam Generator Upper and Lower Assemblies, Revision 2
PROD00022834	4/12/2006 Radiation Protection Procedure: Radioactive Materials Shipment - Certified Containerized Waste to Envirocare of Utah, Revision 1
PROD00022835	4/12/2006 Radiation Protection Procedure: Radioactive Material Shipment - LLRW To Bulk Waste Disposal Facility of Envirocare of Utah, Revision 1
PROD00022836	3/29/2006 Radiation Protection Procedure: Radioactive Materials Shipment Greater than Type A Quantities in Exclusive Use Vehicle to Barnwell, SC Using Chem-Nuclear Cask and HIC Liner, Revision 23
PROD00022837	3/29/2006 Radiation Protection Procedure: Radioactive Materials Shipment greater than Type A Quantities in Exclusive Use Vehicle to Barnwell, SC Using RWE Nukem Cask and HIC Liner, Revision 23
PROD00022838	3/29/2006 Radiation Protection Procedure: Radioactive Materials Shipment - M.S.S. - Other Than Irradiated Fuel - Not Exceeding HRCQ, Revision 11
PROD00022839	1/12/2006 Radiation Protection Procedure: Radioactive Materials Shipment Irradiated Components - Greater Than Type A - In Exclusive Use Vehicle to Barnwell, SD Using Chem-Nuclear CNS 3-55 Cask & Liner, Revision 13
PROD00022840	3/29/2006 Radiation Protection Procedure: Radioactive Materials Shipment - LSA/SCO - Quantities in Exclusive Use Vehicle to Barnwell, SC, Revision 13
PROD00022841	6/19/2007 Radiation Protection Procedure: Radioactive Material Shipment, Revision 16
PROD00022842	4/15/2008 Radiation Protection Procedure: Process Control Program for Solidification/Dewatering of Radioactive Waste form Liquid Systems, Revision 9
PROD00022843	1/23/2008 Radiation Protection Implementing Procedure: Radiation Protection Program, Revision 11
PROD00022844	5/27/2008 Radiation Protection Implementing Procedure: Hot Particle Program, Revision 13
PROD00022845	2/14/2008 Radiation Protection Implementing Procedure: RWP Coverage, Revision 19
PROD00022846	5/21/2008 Radiation Protection Implementing Procedure: LSA Box / Sealand Container Control, Revision 8
PROD00022847	2/21/2008 Temporary Change Request: Unconditional Release of Materials
PROD00022848	2/21/2008 Temporary Change Request, RPIP 1302: Unconditional Release of Materials
PROD00022849	2/1/2008 Radiation Protection Implementing Procedure: Conditional Release of Equipment to Outside the Radiological Controlled Area, Revision 9
PROD00022850	6/9/2008 Radiation Protection Implementing Procedure: Rad Waste Drum Control, Revision 11
PROD00022851	6/9/2008 Radiation Protection Implementing Procedure: Drumming of Wet Trash, Revision 7
PROD00022852	5/19/2008 Radiation Protection Implementing Procedure: Rad Waste Classification, Revision 8
PROD00022853	6/12/2008 Radiation Protection Implementing Procedure: Tracking Radwaste Shipments, Revision 6

Document Number	Description
PROD00022854	5/19/2008 Radiation Protection Implementing Procedure: Rad Waste Streams Scaling Factors, Revision 8
PROD00022855	6/13/2008 Radiation Protection Implementing Procedure: Resin Liner/PDV Control, Revision 14
PROD00022856	6/13/2008 Radiation Protection Implementing Procedure: Solid Radioactive Waste Report, Revision 9
PROD00022857	6/9/2008 Radiation Protection Implementing Procedure: Special Drum Control, Revision 13
PROD00022858	5/19/2008 Radiation Protection Implementing Procedure: Dewatering Filter Elements in High Integrity Containers, Revision 5
PROD00022859	6/3/2008 Radiation Protection Implementing Procedure: Loading LSA Boxes/Sealand Containers
PROD00022860	Monitoring of RAD Waste in Interim Storage Procedure rev 5 with effective date 6/16/2008
PROD00022861	Radman for Windows to Generate Scaling Factors Procedure rev 5 with effective date 6/6/2008
PROD00022862	Radman for Windows to Classify and Characterize Radioactive Waste Procedure rev 5 with effective date 6/9/2008
PROD00022863	Evaporation of Waste Liquids Procedure rev 2 with effective date 6/9/2008
PROD00022864	Shipping RAM Using Radman/Radshp Software Procedure rev 3 with effective date 6/13/2008
PROD00022865	Definitions of Root Cause, Contributing Cause, Causal Factors and CAPR
PROD00022866	1/9/2009 email from E Forrai to M Kent re approval for release of proprietary document and forwarding other requested documents
PROD00022867	List of documents relative to shipment of radioactive materials
PROD00022868	List of documents relative to shipment of radioactive materials
PROD00022869	List of documents relative to shipment of radioactive materials
PROD00022870	List of documents relative to shipment of radioactive materials
PROD00022871	10/23/2008 Radiation Protection Survey Records with attached diagrams, records and data
PROD00022872	References 1-26
PROD00022873	Job Risk Assessment (Does not apply to E Plan)
PROD00022874	Flowchart (not legible)
PROD00022875	Job Risk Assessment (Does not apply to E Plan)
PROD00022876	Risks analyses for Categories 1-5
PROD00022877	Westinghouse Box Data for various Packages
PROD00022878	1/14/2009 Photograph of Radioactive material Type A Packaging UN 2915
PROD00022879	1/14/2009 Photograph of Radioactive material Type A Packaging UN 2915
PROD00022880	1/14/2009 Photograph
PROD00022881	Evaluation of Surveys of the Prairie Island Shipping Container Serial #17-0072 from Shipment #I-324-2008
PROD00022882	10/26/2008 Radiation Protection Survey Record with attached diagrams and data
PROD00022883	10/29/2008 Radiation Protection Survey Record with attached Vehicle Survey Record for Shipment # 08-069
PROD00022884	11/13/2008 Radiological Survey Record No. 2008-754-SC
PROD00022885	10/31/2008 Radiological Survey Record No. 2008-704-SC
PROD00022886	10/30/2008 Record of Monitoring on Receipt of Radioactive Materials
PROD00022887	11/3/2008 Radiation Protection Survey Record
PROD00022888	11/4/2008 Radiological Survey Record No. 2008-372-RS

Document Number	Description
PROD00022889	11/14/2008 Radiological Survey Record No. 2008-755-SC
PROD00022890	Safety Significance Investigation format
PROD00022891	Telepole linearity check for Radwaste shipment investigation
PROD00022892	12/31/2008 Information and Fact Sources from Root Cause Evaluation 01157726
PROD00022893	3/16/2007 Westinghouse Nuclear Services Environment, Health and Safety Training Course Outline rev 0
PROD00022894	Challenge Board Discussion
PROD00022895	NCR Identified Issue Report re: radioactive material shipment and Human Performance cross-cutting issue.
PROD00022896	NRC Evaluation Checklist (From Inspection Procedure 95001)
PROD00022897	RCE Report Evaluation for 01157726
PROD00022898	RCE Report Evaluation for 01157726
PROD00022899	RCE Report Evaluation for 01157726
PROD00022900	RCE Report Evaluation for 01157726
PROD00022901	RCE Report Evaluation for 01157726
PROD00022902	RCE Report Evaluation for 01157726
PROD00022903	RCE Report Evaluation for 01157726
PROD00022904	12/12/2008 List of fixes for RCE 01157726
PROD00022905	1/16/2009 RCE 01157726 PARB grade 011609 spreadsheet
PROD00022906	1/22/2009 RCE 01157726 PARB grade 011909 spreadsheet
PROD00022907	1/27/2009 RCE 01157726 PARB grade 012209 spreadsheet
PROD00022908	RCE 01157726 Effectiveness Review and attachments
PROD00022909	11/24/2008 RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726 with handwritten notes
PROD00022910	12/17/2008 RCE 1157726 rollup spreadsheet
PROD00022911	spreadsheet of various item numbers and descriptions
PROD00022912	1/29/2009 RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022913	DRAFT RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022914	DRAFT RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022915	RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022916	RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022917	RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022918	RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022919	DRAFT RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022920	DRAFT RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022921	DRAFT RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022922	RCE Report Template followed by RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022923	RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022924	RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022925	DRAFT RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726

Document Number	Description
PROD00022926	DRAFT RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022927	DRAFT RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022928	RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022929	RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022930	RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022931	RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022932	RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022933	RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022934	RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022935	RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022936	RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022937	2/19/2009 RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022938	RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022939	RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022940	RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022941	RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022942	3/3/2009 RCE Report: Radioactive Material Shipment Exceeded DOT Limits RCE 01157726
PROD00022943	Job Risk Assessment (Does not apply to E Plan)
PROD00022944	Job Risk Assessment (Does not apply to E Plan)
PROD00022945	Job Risk Assessment (Does not apply to E Plan)
PROD00022946	Job Risk Assessment (Does not apply to E Plan)
PROD00022947	Job Risk Assessment (Does not apply to E Plan)
PROD00022948	Job Risk Assessment Table (Does not apply to Emergency Plan conditions)
PROD00022949	Job Risk Assessment (Does not apply to E Plan)
PROD00022950	Job Risk Assessment Table (Does not apply to Emergency Plan conditions)
PROD00022951	Attachment 1: RP Risk Matrix (Does not apply to Emergency Plan conditions) and Job Risk Assessment Table Explanation and Examples
PROD00022952	Attachment 1: RP Risk Matrix (Does not apply to Emergency Plan conditions) and Job Risk Assessment Table Explanation and Examples
PROD00022953	Job Risk Assessment Table (Does not apply to Emergency Plan conditions)
PROD00022954	Attachment 1: RP Risk Matrix (Does not apply to Emergency Plan conditions) and Job Risk Assessment Table Explanation and Examples
PROD00022955	Attachment 1: RP Risk Matrix and Job Risk Assessment Table Explanation and Examples
PROD00022956	Job Risk Assessment (Does not apply to E Plan)
PROD00022957	Nuclear Safety Significance Report
PROD00022958	Safety Significance Report
PROD00022959	Nuclear Safety Significance Report

Document Number	Description
PROD00022960	Safety Significance Report
PROD00022961	Safety Significance Report
PROD00022962	Safety Significance Report
PROD00022963	Safety Significance Report
PROD00022964	Safety Significance Report
PROD00022965	Safety Significance Report
PROD00022966	Safety Significance Report
PROD00022967	Safety Significance Report
PROD00022968	Safety Significance Report
PROD00022969	Safety Significance Report
PROD00022970	Safety Significance Report
PROD00022971	spreadsheet of data
PROD00022972	2/16/2009 email from D Warner to T Verbout and others cc R Hite and others re Capital Costs for different CC System projects compared to 2007 study
PROD00022973	Actions 28 and 29 Report
PROD00022974	Action 10 Report and graph
PROD00022975	Action 11 report
PROD00022976	Question 12 and 13 Reports with handwritten notes and 1/30/2009 email from D Lapcinski to B Horner re validating of responses to questions
PROD00022977	Question 4 and Response Report
PROD00022978	Question 17 - Rev 3 and Response Report
PROD00022979	1/20/2009 email from M Loosbrock to J Ritter and others re CC HELB Issue and previous use of X-Connect valves
PROD00022980	Action 20 Background and Response Report
PROD00022981	2/5/2009 Letter from A Washburn (Sulzer Pumps Inc) to S Skoyen (Xcel) re SI Pump - Loss of Cooling Water for Lube System Review
PROD00022982	Engineered Safeguards System Unit 1 Procedure rev 22 with handwritten notes
PROD00022983	3/9/2009 Record of Telephone Conversation between B Horner and J Grebin re NPSH requirements for Goulds 3196 model Pump
PROD00022984	11/5/2008 NRC Question Response Form re information for high energy pipes and CC piping in the Turbine Building
PROD00022985	Write-up of information contained within AES turbine building HELB calculations that is relevant to the CC / HELB SDP with handwritten notes
PROD00022986	Question 44 Report and Determination of Orifice Flow Rates Table with handwritten notes
PROD00022987	2/6/2009 email from J Kempkes to B Horner cc J Ritter and others re Turbine building HELB / CC piping interaction questions with handwritten notes
PROD00022988	2/6/2009 email from J Kempkes to J Ritter cc B Horner and T Bacon re Turbine building HELB / CC piping interaction questions

Document Number	Description
PROD00022989	2/10/2009 email from B Horner to J Ritter cc W Hadeka and others re Additional Information for CC/HELB SDP and attached 1/18/2006 PINGP Calculation for Safe Shutdown Equipment for Compliance with 10 CFR 50, Appendix R
PROD00022990	1/16/2009 Record of Telephone Conversation between B Horner and E Colvin re RCP seal injection water temperature maximum allowable limit
PROD00022991	2/9/2009 email from J Ritter to S Northard and others re Additional Information for CC/HELB SDP
PROD00022992	Letdown, Charging, and Seal Water Injection - Unit 2 Procedure rev 17 effective date 10/23/2008
PROD00022993	Malfunction of Automatic Makeup Procedures rev 10 effective date 7/25/2007
PROD00022994	Spreadsheet Unit 1 HELB Piping
PROD00022995	Report re: Calculating the draindown time of CC surge tank following a 3/8" CC tubing rupture in gas house
PROD00022996	Action 20: Calculation of the draindown time of CC surge tank following pipe break in Turbine Building
PROD00022997	Report re: Calculating the draindown time of CC surge tank following a 3/8" CC tubing rupture in gas house
PROD00022998	Table summarizing history of "high temperature" RCP seal o-ring use at Prairie Island and attachments
PROD00022999	3/5/2009 NRC Question Response Form re operational history of 12-MS-35
PROD00023000	3/5/2009 NRC Question Response Form re operational history of 12-MS-35
PROD00023001	3/9/2009 Record of Telephone Conversation between B Horner and J Grebin re NPSH requirements for Goulds 3196 model Pump
PROD00023002	3/31/2009 Record of Telephone Conversation between B Horner and B Lutz re Westinghouse RCP high-temp o-ring ultimate failure pressures
PROD00023003	3/5/2009 NRC Question Response Form re response operations would take if fire alarm occurs during HELB event
PROD00023004	3/5/2009 NRC Question Response Form re policies/procedures related to operations staffing during plant operation
PROD00023005	3/23/2009 NRC Question Response Form re location of 12-MS-35 steam line relative to valves that isolate CC supply to Gas House
PROD00023006	4/16/2009 NRC Question Response Form re when high temperature seals were installed in PINGP RCPs
PROD00023007	Actions 28 and 29 report and 3/16/2009 email from J Gehlhar to B Horner and others re responses to questions re Actions 28 and 29
PROD00023008	3/31/2009 Record of Telephone Conversation between B Horner and B Lutz re Westinghouse RCP high-temp o-ring ultimate failure pressures
PROD00023009	3/8/2009 Memo from D Malek to S Northard re CAP O1145695, CC Piping adjacent to HELB Location in turbine bldg
PROD00023010	3/9/2009 Memo from D Malek to S Northard re CAP 01145695, CC Piping adjacent to HELB Location in turbine bldg
PROD00023011	3/10/2009 Memo from D Malek to S Northard re CAP 01145695, CC Piping adjacent to HELB Location in turbine bldg
PROD00023012	3/11/2009 memo from S. Northard to D. Malek regarding status of HELP / CC piping in turbine building.
PROD00023013	3/12/2009 memo from S. Northard to D. Malek regarding status of HELP / CC piping in turbine building.
PROD00023014	3/13/2009 Memo from D. Malek to S. Northard re CAP 1145695, CC Piping Adjacent to HELB Location in Turbine Building
PROD00023015	4/2/2009 Memo from D. Malek to S. Northard re CAP 1145695, CC Piping Adjacent to HELB Location in Turbine Building

Document Number	Description
PROD00023016	3/17/2009 Memo from D. Malek to S. Northard re CAP 1145695, CC Piping Adjacent to HELB Location in Turbine Building
PROD00023017	3/18/2009 Memo from D. Malek to S. Northard re CAP 1145695, CC Piping Adjacent to HELB Location in Turbine Building
PROD00023018	3/19/2009 Memo from D. Malek to K. Ryan re CAP 1145695, CC Piping Adjacent to HELB Location in Turbine Building
PROD00023019	3/20/2009 Memo from D. Malek to S. Northard re CAP 1145695, CC Piping Adjacent to HELB Location in Turbine Building
PROD00023020	3/23/2009 Memo from D. Malek to S. Northard re CAP 1145695, CC Piping Adjacent to HELB Location in Turbine Building
PROD00023021	3/24/2009 Memo from D. Malek to S. Northard re CAP 1145695, CC Piping Adjacent to HELB Location in Turbine Building
PROD00023022	3/25/2009 Memo from D. Malek to S. Northard re CAP 1145695, CC Piping Adjacent to HELB Location in Turbine Building
PROD00023023	3/26/2009 Memo from D. Malek to S. Northard re CAP 1145695, CC Piping Adjacent to HELB Location in Turbine Building
PROD00023024	3/27/2009 Memo from D. Malek to S. Northard re CAP 1145695, CC Piping Adjacent to HELB Location in Turbine Building
PROD00023025	3/30/2009 Memo from D. Malek to K. Ryan re CAP 1145695, CC Piping Adjacent to HELB Location in Turbine Building
PROD00023026	3/31/2009 Memo from D. Malek to K. Ryan re CAP 1145695, CC Piping Adjacent to HELB Location in Turbine Building
PROD00023027	4/1/2009 Memo from D. Malek to K. Ryan re CAP 1145695, CC Piping Adjacent to HELB Location in Turbine Building
PROD00023028	4/2/2009 Memo from D. Malek to K. Ryan re CAP 1145695, CC Piping Adjacent to HELB Location in Turbine Building
PROD00023029	4/5/2009 Memo from K. Ryan to D. Malek re CAP 1145695, CC Piping Adjacent to HELB Location in Turbine Building
PROD00023030	4/6/2009 Memo from D. Malek to K. Ryan re CAP 1145695, CC Piping Adjacent to HELB Location in Turbine Building
PROD00023031	4/7/2009 Memo from D. Malek to K. Ryan re CAP 1145695, CC Piping Adjacent to HELB Location in Turbine Building
PROD00023032	4/8/2009 Memo from D. Malek to K. Ryan re CAP 1145695, CC Piping Adjacent to HELB Location in Turbine Building
PROD00023033	4/9/2009 memo from R. Best to K. Ryan regarding status of HELB / CC piping
PROD00023034	4/10/2009 memo from R. Best to K. Ryan regarding status of HELB / CC piping
PROD00023035	4/13/2009 Memo from R. Best to K. Ryan re CAP01145695, CC Piping adjacent to HELB Location in turbine bldg
PROD00023036	4/14/2009 Memo from R. Best to K. Ryan re CAP01145695, CC Piping adjacent to HELB Location in turbine bldg
PROD00023037	4/15/2009 Memo from D. Malek to K. Ryan re CAP01145695, CC Piping adjacent to HELB Location in turbine bldg
PROD00023038	4/16/2009 Memo from D. Malek to K. Ryan re CAP01145695, CC Piping adjacent to HELB Location in turbine bldg
PROD00023039	4/19/2009 Memo from D. Malek to K. Ryan re CAP01145695, CC Piping adjacent to HELB Location in turbine bldg
PROD00023040	4/20/2009 Memo from D. Malek to K. Ryan re CAP 1145695, CC Piping Adjacent to HELB Location in Turbine Building
PROD00023041	4/21/2009 Memo from D. Malek to K. Ryan re CAP 1145695, CC Piping Adjacent to HELB Location in Turbine Building
PROD00023042	4/22/2009 Memo from D. Malek to K. Ryan re CAP 1145695, CC Piping Adjacent to HELB Location in Turbine Building
PROD00023043	4/23/2009 Memo from D. Malek to K. Ryan re CAP 1145695, CC Piping Adjacent to HELB Location in Turbine Building
PROD00023044	4/27/2009 Memo from D. Malek to K. Ryan re CAP 1145695, CC Piping Adjacent to HELB Location in Turbine Building

Document Number	Description
PROD00023081	1/27/2009 Memo from B. Horner to S. Northard re: CC piping adjacent to HELB location in turbine building and related CAP
PROD00023082	1/28/2009 Memo from B. Horner to S. Northard re: CC piping adjacent to HELB location in turbine building and related CAP
PROD00023083	1/29/2009 Memo from B. Horner to S. Northard re: CC piping adjacent to HELB location in turbine building and related CAP
PROD00023084	1/30/2009 Memo from B. Horner to S. Northard re: CC piping adjacent to HELB location in turbine building and related CAP
PROD00023085	1/9/2009 Memo from B. Horner to S. Northard re: CC piping adjacent to HELB location in turbine building and related CAP
PROD00023086	2/10/2009 Memo from B. Horner to S. Northard re: CC piping adjacent to HELB location in turbine building and related CAP
PROD00023087	2/11/2009 Memo from B. Horner to S. Northard re: CC piping adjacent to HELB location in turbine building and related CAP
PROD00023088	2/12/2009 Memo from B. Horner to S. Northard re: CC piping adjacent to HELB location in turbine building and related CAP
PROD00023089	2/13/2009 Memo from B. Horner to S. Northard re: CC piping adjacent to HELB location in turbine building and related CAP
PROD00023090	2/16/2009 Memo from B. Horner to S. Northard regarding status of HELB / CC piping
PROD00023091	2/17/2009 Memo from B. Horner to S. Northard regarding status of HELB / CC piping
PROD00023092	2/18/2009 Memo from B. Horner to S. Northard regarding status of HELB / CC piping
PROD00023093	2/19/2009 Memo from B. Horner to S. Northard regarding status of HELB / CC piping
PROD00023094	2/20/2009 Memo from B. Horner to S. Northard regarding status of HELB / CC piping
PROD00023095	2/2/2009 Memo from B. Horner to S. Northard regarding status of HELB / CC piping
PROD00023096	2/23/2009 Memo from B. Horner to S. Northard regarding status of HELB / CC piping
PROD00023097	2/24/2009 Memo from B. Horner to S. Northard regarding status of HELB / CC piping
PROD00023098	2/25/2009 memo from B. Horner to S. Northard regarding HELB / CC piping status
PROD00023099	2/26/2009 Memo from B. Horner to S. Northard re: CC piping adjacent to HELB location in turbine building and related CAP
PROD00023100	2/27/2009 Memo from B. Horner to S. Northard re: CC piping adjacent to HELB location in turbine building and related CAP
PROD00023101	2/3/2009 Memo from B. Horner to S. Northard re: CC piping adjacent to HELB location in turbine building and related CAP
PROD00023102	2/4/2009 Memo from B. Horner to S. Northard re: CC piping adjacent to HELB location in turbine building and related CAP
PROD00023103	2/5/2009 Memo from B. Horner to S. Northard re: CC piping adjacent to HELB location in turbine building and related CAP

Document Number	Description
PROD00023104	2/6/2009 Memo from B. Horner to S. Northard re: CC piping adjacent to HELB location in turbine building and related CAP
PROD00023105	2/9/2009 Memo from B. Horner to S. Northard re: CC piping adjacent to HELB location in turbine building and related CAP
PROD00023106	3/2/2009 Memo from B. Horner to S. Northard re: CC piping adjacent to HELB location in turbine building and related CAP
PROD00023107	3/3/2009 Memo from B. Horner to S. Northard re: CC piping adjacent to HELB location in turbine building and related CAP
PROD00023108	3/4/2009 Memo from B. Horner to S. Northard re: CC piping adjacent to HELB location in turbine building and related CAP
PROD00023109	3/5/2009 Memo from B. Horner to S. Northard re: CC piping adjacent to HELB location in turbine building and related CAP
PROD00023110	3/6/2009 Memo from B. Horner to S. Northard re: CC piping adjacent to HELB location in turbine building and related CAP
PROD00023111	6/10/2009 Summary of Discussion with NRC
PROD00023112	6/10/2009 NRC Question Response Form re: pipe segment 12-CD-7 and HELB
PROD00023113	5/1/2010 Action Request Identification printout re: potential CL system unanalyzed condition during HELB
PROD00023114	1/9/2009 Email from J. Ritter to B. Horner re: CC Line/HELB issue
PROD00023115	12/1/2008 Report titled Component Cooling Piping Interaction with Turbine Building HELB Piping Significance Determination Process
PROD00023116	CC_HELB SDP External Resource Costs spreadsheet
PROD00023117	Untitled spreadsheet re: VCT and NPSH
PROD00023118	Sargent & Lundy report titled Chemistry Lab Component Cooling Study (7/2009)
PROD00023119	8/5/2009 Modification Classification form for Cold Chemistry Lab Sample Cooling System (EC number 14668)
PROD00023120	Design Input Checklist, Part A, for EC number 14668
PROD00023121	Design Input Checklist, Part B, for EC number 14668
PROD00023122	Design Description Form titled Cold Chemistry Laboratory Sample Cooling System (CLC)
PROD00023123	Cold Chem Lab Sample Cooler Heat Loads / ZW System Capabilities (preliminary evaluation)
PROD00023124	8/25/1985 Work Request re: installation of bypass
PROD00023125	10/5/1995 Analysis of Record and Engineering Calculations re: Single Failure Analysis for Component Cooling System
PROD00023126	Undated response from K. Den Herder to J. Ritter re: HELB line questions from 11/5/2008 NRC information request
PROD00023127	Untitled spreadsheet re: VCT pressure
PROD00023128	7/17/2009 NRC Question Response Form re: CC piping break scenario
PROD00023129	Operability Recommendation for CAP 01145695 re: CC piping in turbine building (8/2008)
PROD00023130	2/13/2009 Letter from A. Limaye at MPR Associates to B. Horner re: proposal for engineering services of past operability analysis for safety injection pump
PROD00023131	50.59 Screening report re: measuring Unit 2 RMU flows to CC surge tank and VCT for PRA (4/2009)

Document Number	Description
PROD00023132	1/12/2009 Email from M. Huting to S. Skoyen, B. Horner, and M. Schimmel re: turbine building HELB/CC SDP update
PROD00023133	3/19/2009 Email from A. Limaye at MPR Associates to B. Horner re: request for increased authorization for SI pump analysis
PROD00023134	50.59 Screening report re: measure Unit 2 RMU flows to CC surge tank (4/2009)
PROD00023135	Photo Related to Auxiliary Feed Water Pump White Finding
PROD00023136	4/14/2009 Turbine Building CC SDP Issue RMU Success Path Continued Viability
PROD00023137	50.59 Screening report re: isolation of CC piping in Turbine Building (8/2008)
PROD00023138	50.59 Screening report re: revisions of procedures to support lock valves to assure that CC water is permanently isolated from Turbine Building (11/2009)
PROD00023139	Spreadsheet containing Document IDs and descriptions
PROD00023140	3/16/2009 Design Information Transmittal form and attachments re: Safety Injection Pump operation without CC flow to bearing oil cooler
PROD00023141	4/17/2009 Design Information Transmittal form and attachments re: Safety Injection Pump operation without CC flow to bearing oil cooler and seals
PROD00023142	Report from MPR Associates titled Past Operability Analysis of PINGP Safety Injection Pumps for Loss of Lube Oil and Seal Cooling (4/2009)
PROD00023143	3/26/2009 Lube Oil Heat Rejection Calculation from MPR Associates
PROD00023144	4/23/2009 Shaft Seal Heat Generation Calculation from MPR Associates
PROD00023145	Draft report from MPR Associates titled Past Operability Analysis for PINGP Safety Injection Pumps for Loss of Lube Oil Cooling (3/2009)
PROD00023146	1/18/2009 Letter from A. Setlur at AES Corp. to B. Slack re: proposal for engineering services related to turbine building
PROD00023147	1/9/2009 Email from J. Ritter to B. Horner re: summary of CC/HELB SDP discussion with NRC
PROD00023148	ERG Feedback form re: RCP pumps
PROD00023149	12/15/2008 Email from B. Horner to J. Ritter and others at Xcel re: potential NRC question on RCP pump
PROD00023150	4/1/2009 Team Notes Prairie Island newsletter re: CC system configuration control issue
PROD00023151	Spreadsheet report re: VCT after loss of CC
PROD00023152	Spreadsheet titled VCT temperature response to loss of CC flow to LTDN HX
PROD00023153	3/20/2009 email from C. Koehler to B. Horner re: Potential initiating events of a pipe rupture affecting operability of Component Cooling
PROD00023154	3/13/2009 email from R. Best to B. Horner and others at Xcel re: Importance of Component Cooling line to Gas House from a seismic and HELB perspective
PROD00023155	1/5/2009 report of Automated Engineering Services - Prairie Island Nuclear Generating Plant assessment Report on Component Cooling Piping in the Turbine Building
PROD00023156	3/25/2009 Stevenson & Associates Draft Engineering Walkdown Report
PROD00023157	6/10/2009 NRC Question Response Form
PROD00023158	summary of 6/10/2009 NRC conference call regarding the Component Cooling and High Energy Line Break SDP

Document Number	Description
PROD00023159	3/1/2009 PINGP Component Cooling Water / Turbine Building Issue Risk Significance - Summary of Xcel Analysis Performed
PROD00023160	Response to Question 17 re cross-connecting Unit 1 to Unit 2 component cooling system, Revision 3
PROD00023161	3/19/2009 Email from J. Ritter to B. Horner re RCP seal injection restoration
PROD00023162	Comments on MPR report on loss of CC to seals and lube oil cooler on Safety Injection pumps at Prairie Island, MPR-3303, Rev. 0
PROD00023163	3/24/2009 Email from W. Hadeka to A. Limaye & B. Horner with others cc'd re comments on draft report from MPR
PROD00023164	3/9/2009 Email from J. Ritter to B. Horner re RMU Pump Flow test to 21 VCT/21 CC Surge Tank
PROD00023165	3/16/2009 Email from A. Limaye with MPR to B. Horner re SI pump info
PROD00023166	3/5/2009 Email from J. Gehlhar to B. Horner re Simulator Case Study of Loss of CC and Impact on VCT
PROD00023167	1/10/2009 Email from R. Best to R. Rohrer & J. Ritter, w/ B. Horner & M. Brossart cc'd re Turbine building HELB /CC SDP update
PROD00023168	2/14/2009 Data Request from MPR to PINGP re safety injection pumps
PROD00023169	4/16/2009 Email from B. Horner to R. Best re Validated MAAP parameters for MPR analysis input
PROD00023170	2/25/2009 Email from J. Ritter to B. Horner re summary of the scenario and various operator actions
PROD00023171	Report on Human Failure Errors (HFE)
PROD00023172	5/12/2009 Email from B. Horner to M. Cabiro and many others re Gas house CC tubing rupture calculation
PROD00023173	5/9/2009 Email from J. Ritter to B. Horner and others re CC calculations
PROD00023174	3/5/2009 Notes on NRC Conference Call - CC-HELB SDP Evaluation
PROD00023175	2/3/2009 Email from J. Gehlhar to B. Horner re Loss of CC to Ltdn & SI Wtr Hx, VCT temperature
PROD00023176	Chart on Loss of CC to Ltdn & SI Wtr Hx, VCT
PROD00023177	3/3/2009 Email from R. Best to J. Olvera with others cc'd re MAAP runs for SI pump continuous operation on CC/HELB event seal LOCA
PROD00023178	2/16/2009 Email from J. Ritter to B. Horner & T. Bacon re Operator review of RMW pump operation and tank swap over
PROD00023179	2/16/2009 Email from A. Limaye with MPR to W. Hadeka & B. Horner with others cc'd re PINGP SI pump analysis
PROD00023180	12/15/2008 Email from J. Ritter to B. Horner re RCP pump cooling, charging verses CC
PROD00023181	1/16/2009 Email from J. Ritter to multiple Xcel employees re PRA Risk Assessment Approach for HELB/CC SDP
PROD00023182	1/16/2009 Risk Assessment Approach for HELB Interaction with CC Piping in the Turbine Building SDP
PROD00023183	5/16/2009 Email from R. Best to numerous others cc'd re Proposed "position statements" for boundaries on the CC-HELB SDP evaluation
PROD00023184	Proposed Xcel Position Statements Relative to the CC-HELB SDP Evaluation
PROD00023185	1/2/2009 Email from J. Ritter to B. Horner re RCP Seal Info for NRC RAI Response
PROD00023186	Report on Follow-Up Questions Regarding Responses to SAMA RAIs for Prairie Island
PROD00023187	4/2/2009 Email from B. Horner to several Xcel employees re Action 49
PROD00023188	3/31/2009 Record of Telephone Conversation: re Westinghouse RCP high-temp o-ring ultimate failure pressures
PROD00023189	2/9/2009 Email from D. Warner to numerous Xcel employees re 2009 CC system project discussion
PROD00023190	2/12/2009 CC System Projects Discussion: Agenda

Document Number	Description
PROD00023191	2/5/2009 Email from B. Horner to J. Ritter w/ W. Hadeka & K. Johnson cc'd re Actions 10 & 11
PROD00023192	3/15/2009 Email from J. Ritter to R. Best and numerous other Xcel employees re Actions 28 & 29
PROD00023193	3/15/2009 Email from R. Best to B. Horner & D. Malek with others cc'd re Actions 28 & 29
PROD00023194	5/9/2009 Email from B. Horner to J. Ritter & R. Best with others cc'd re calculations on additional inventory and its affect on assumed break pressures
PROD00023195	5/9/2009 Email from B. Horner to R. Best w/ S. Skoyen & L. Johnson cc'd re CC calculation variables
PROD00023196	5/9/2009 Email from B. Horner to R. Best w/ S. Skoyen & L. Johnson and others cc'd re CC calculation variables
PROD00023197	5/9/2009 Email from B. Horner to R. Best w/ S. Skoyen & L. Johnson and others cc'd re CC calculation variables
PROD00023198	5/9/2009 Email from B. Horner to R. Best w/ S. Skoyen & L. Johnson and others cc'd re CC calculation variables
PROD00023199	1/20/2009 Email from M. Loosbrock to J. Ritter, B. Horner & M. Brossart re CC HELB issues with use of X-Connect valves
PROD00023200	3/13/2009 Email from J. Ritter to R. Best & B. Horner with others cc'd re CC line to Gas House
PROD00023201	12/9/2008 NRC Question Response Form re seismic analysis of 1-CC-138 up to CC-71-1 and CC-71-2 and CAPS associated therewith
PROD00023202	3/18/2009 Email from J. Ritter to B. Horner & W. Scholberg with D. Malek & R. Best cc'd re CC volume
PROD00023203	Feedback solicitation for CC-HELB SDP related activities
PROD00023204	3/13/2009 Email from R. Best to numerous Xcel employees re Licensing basis requirements for SI/RHR involving CC
PROD00023205	Report on Licensing basis statements for SI and RHR requirements of dependency on CC
PROD00023206	1/28/2009 Email from B. Horner to B. Slack re Cold chem lab structure's capacity to withstand forces
PROD00023207	3/26/2009 Email from J. Ritter to B. Horner & D. Malek with others cc'd re Containment Pressure and Sump B Temperatures from MAAP analysis
PROD00023208	PI Loss of CCW Due to HELB - Seal LOCA Plant Response Charts
PROD00023209	3/26/2009 Email from J. Ritter to B. Horner, D. Malek, w/ R. Best & L. Johnson cc'd re Containment and RCS Pressure from MAAP results
PROD00023210	3/27/2009 Email from J. Ritter to A. Limaye with others cc'd re Containment and RCS pressure
PROD00023211	3/26/2009 Email from B. Horner to J. Ritter with others cc'd re Containment & RCS pressure
PROD00023212	4/3/2009 Email from B. Horner to R. Best, D. Malek & K. Kriesel with L. Johnson cc'd re walkdown report on CC piping
PROD00023213	5/12/2009 Email from R. Best to B. Horner w/ L. Johnson cc'd re Gas house CC tubing rupture calculation
PROD00023214	5/6/2009 Email from J. Ritter to B. Horner w/ R. Best, D. Malek & L. Johnson cc'd re HT O-ring questions
PROD00023215	3/13/2009 Email from R. Best to D. Malek & B. Horner w/ M. Brossart & L. Johnson cc'd re HT O-rings extrusion test results statistical analysis
PROD00023216	2/25/2009 Email from D. Warner to P. Huffman with numerous others cc'd re List of CC issues
PROD00023217	6/1/2009 Email from B. Horner to A. Smith, w/ A. Bierbrauer cc'd re List of CC issues
PROD00023218	1/29/2009 Email from B. Horner to J. Ritter re Loss of C, Ltdn & VCT temperatures
PROD00023219	Chart and Spreadsheet on VCT temperature response to loss of CC flow to LTDN HX
PROD00023220	2/16/2010 Email from Martin Cabiro to Benjamin Horner re: location of signed responses to NRC questions for Auxiliary Feedwater

Document Number	Description
PROD00023221	2/16/2010 Email from Benjamin Horner to Martin Cabiro and others re: archiving NRC questions and responses
PROD00023222	4/17/2009 Email from Benjamin Horner to Dave Malek re: old seals and high temp O rings
PROD00023223	11/10/2009 Email from Benjamin Horner to Jane Ritter re: Operator Response Time for CC- HELB SDP compared with CC-HELB Scenario with leak in the Auxiliary Building
PROD00023224	2/17/2009 Email from Jayne Ritter to John Kempkes and others re: response of RMW pumps/tanks System in CC/HELB SDP situation
PROD00023225	2/18/2009 Email from Jayne Ritter to John Kempkes and others re: maximum flow and valve control within RMW pump/system operations in CC/HELB event
PROD00023226	12/19/2008 Email from Jayne Ritter to Benjamin Horner re: physical damage to RCP after automatic trip due to over current protective relays
PROD00023227	12/19/2008 Email from Jayne Ritter to Benjamin Horner re: Operator training provides for trip of the RCPs upon loss of Component Cooling Water
PROD00023228	1/5/2009 Email from Jayne Ritter to Benjamin Horner others re: Operation of RCP on loss of CC but with Charging pumps still available
PROD00023229	Undated Westinghouse document re: loss of cooling and seal failure in RCPs
PROD00023230	1/5/2008 Email from Randy Best to Jayne Ritter and others re: RCP pump cooling and seal leakage as a result of loss of CC
PROD00023231	3/20/2008 Volume Control Tank Simulator Case Study re: loss of Unit 2 Component Cooling System due to High Energy Line Break in Turbine Building
PROD00023232	2/10/2009 Email from B. Horner to J. Ritter re historic use of main steam line 12-MS-35
PROD00023233	5/17/2009 Email from R. Best to PINGP engineers re comments to proposed statement to NRC re CC/HELB SDP evaluation
PROD00023234	5/6/2009 Email from B. Horner to PINGP engineers re seal on reactor cooling pump and LOCA concerns
PROD00023235	6/17/2009 Email from B. Horner to J. Ritter re review of NRC response
PROD00023236	6/17/2009 Email from B. Horner to J. Ritter re comments on and status of NRC response
PROD00023237	1/11/2009 Email from J. Ritter to B. Horner re model applied for RCP seal analysis
PROD00023238	Follow-up questions re Responses to Severe Accident Mitigation Analysis RAIs for Prairie Island
PROD00023239	4/28/2009 Email from J. Ritter to W. Hadeka and B. Horner re SI pump operability report
PROD00023240	3/30/2009 Email from B. Horner to A. Limaye of MPR re inputs needed for SI pump seal evaluation
PROD00023241	5/7/2009 Email from B. Horner to R. Best re vulnerability of 1" CC piping in gas house
PROD00023242	5/7/2009 Email from B. Horner to R. Best re vulnerability of 1" CC piping in gas house
PROD00023243	3/2/2009 Email from J. Ritter to B. Horner re documentation of HELB/CC questions
PROD00023244	2/6/2009 Email from R. Best to PINGP engineers re qualification of turbine buildings CC seismic lines
PROD00023245	2/16/2009 Email from A. Limayo of MPR to W. Hadeka re bearings for SI pump operability analysis
PROD00023246	3/20/2009 Email from J. Ritter to B. Horner re J. Ritter's comments re temperature findings of SI pump operability analysis
PROD00023247	3/16/2009 Email from A. Limaye of MPR to B. Horner re viscosities used in SI pump operability analysis

Document Number	Description
PROD00023248	3/3/2009 Email from J. Gehlher to B. Horner re revised parameters for case study on loss of CC and impact on VCT
PROD00023249	Spreadsheet showing data for case study of loss of CC and impact on VCT
PROD00023250	3/4/2009 Email from J. Gehlhar to B. Horner re seal injection flow in simulator case study of loss of cc and impact on VCT
PROD00023251	3/12/2009 Email from J. Gehlhar to B. Horner re flow variables for simulator case study of loss of CC and Impact on VCT
PROD00023252	5/3/2009 Email from J. Ritter to B. Horner re sump temperature limits
PROD00023253	5/2/2009 Email from B. Horner to A. Limaye of MPR re report on SI pump operability
PROD00023254	5/2/2009 Email from B. Horner to A. Limaye of MPR re report on SI pump operability
PROD00023255	2/6/2009 Email from B. Horner to J. Kempkes re charging pump alignment
PROD00023256	2/6/2009 Email from B. Horner to J. Kempkes re charging pump alignment
PROD00023257	1/26/2009 Email from J. Ritter to PINGP engineers re 1/23/2009 conversation with Laura Kozak
PROD00023258	Summary of Conversation with Laura Kozak (1/23/2009) SDP for HELB/CC evaluation
PROD00023259	2/4/2009 Email from J. Ritter to M. Wadley re action items 35 and 42 on HELB/CC SDP update
PROD00023260	1/14/2009 Email from S. Northard to B. Horner re action item 20 on HELB/CC SDP update
PROD00023261	2/20/2009 Email from D. Malek to B. Horner re actions needed for item 30a on HELB/CC evaluation
PROD00023262	3/9/2009 Email from W. Hadeka to D. Malek re temperature, o-rings, and component cooling in HELB evaluation
PROD00023263	4/13/2009 Email from R. Best to B. Horner and other PINGP engineers re documentation of testing for action item 31a on Turbine Building HELB/CC evaluation
PROD00023264	Description and status of Action item 31a for Turbine Building HELB/CC Significance Determination Process
PROD00023265	4/17/2009 Email from R. Best to PINGP engineers re incorporating CL-HELB into CC-HELB Significance Determination Process
PROD00023266	4/17/2009 Draft Plan to Incorporate CL-HELB into CC-HELB Significance Determination Process Evaluation
PROD00023267	2/5/2009 Email from B. Horner to G. Wheelock re coordination of the Turbine Building HELB/CC Significance Determination Process
PROD00023268	4/13/2009 Email from B. Horner to D. Smith re special testing procedures
PROD00023269	1/26/2009 Email from B. Horner to B. Slack re progress on action items for Turbine Building HELB/CC significant determination process
PROD00023270	4/13/2009 Email from B. Horner to W. Sexson re CAP for special testing requirements
PROD00023271	4/13/2009 Email from B. Horner to D. Malek and other PINGP engineers re action item 31a on Turbine building HELB/CC significant determination process
PROD00023272	4/2/2009 Email from B. Horner to A. Limaye re inputs for SI pump analysis
PROD00023273	4/16/2009 Email from B. Horner to R. Best re parameters used to model sump temperature at time of recirculation
PROD00023274	2/12/2009 Email from J. Ritter to M. Huting re preliminary information shared with Laura on HELB/CC Significance Determination Process
PROD00023275	3/9/2009 Email from J. Ritter to B. Horner and other PINGP engineers re information for testing RMU pump flow
PROD00023276	7/13/2009 Email from B. Horner to J. Ritter re feedback to MPR on contribution to HELB/CC analysis

Document Number	Description
PROD00023277	3/19/2009 Email from W. Hadeka to A. Limaye re operator actions to maintain SI pump
PROD00023278	Image of SI Pump Lube Oil Reservoir attached to email re operator action to maintain SI pump oil level
PROD00023279	3/3/2009 Email from J. Ritter to B. Horner re information to simulate impact on VCT following loss of coolant due to HELB
PROD00023280	3/19/2009 Email from R. Best to PINGP engineers re status of evaluation of Turbine Building CC significance determination process
PROD00023281	2/5/2009 Email from B. Horner to J. Kempkes re configuration of charging pump alignment and manual swap procedures
PROD00023282	4/15/2009 Email from B. Horner to R. Best re HELB/CC interaction documentation for SI pump analysis
PROD00023283	4/16/2009 Email from B. Horner to R. Best re status of HELB/CC interactions documentation
PROD00023284	4/27/2009 Email from B. Horner to R. Best re action items 38 and 39
PROD00023285	Clay Sweet's 95001 Inspection Readiness Follow-up Assessment
PROD00023286	Comments on OE Reviews from the RCE Challenge Board
PROD00023287	Search results from 10/14/2008 to 10/14/2009 re rad shipping program
PROD00023288	Calculations for total shipment activity distributed among the entire internal volume of the shipping box
PROD00023289	Report re categorizing radioactive materials/objects for shipment
PROD00023290	Notes and excerpts re NUREG 1608
PROD00023291	Clay Sweet's RAM Shipment 08-069 Information
PROD00023292	Procedure Consistency Matrix and procedures for packaging and transport of radioactive particles
PROD00023293	Clay Sweet's 95001 Inspection Readiness Follow-up Assessment Comments
PROD00023294	3/17/2009 Prairie Island Nuclear Generating Plant NRC Region III Regulatory Conference Radioactive material transportation event
PROD00023295	Notes regarding conditions present during transport of radioactively contaminated equipment
PROD00023296	12/1/2008 Prairie Island Human Performance Independent Assessment
PROD00023297	11/3/2008 Prairie Island 2008 Mid-Cycle Focused Self Assessment
PROD00023298	4/16/2009 email from R. Hite to S. Derleth and C. Sweet regarding radioactive shipping and completion of survey
PROD00023299	11/12/2008 email from R. Hite to radioactive PRO Chem team regarding required human performance stand-down
PROD00023300	11/12/2008 email from R. Hite to radioactive PRO Chem team regarding required human performance stand-down
PROD00023301	Talking points regarding lapse in human performance tools and safety
PROD00023302	Radioactive Material Shipping Matrix
PROD00023303	10/29/2008 Radiation Protection/ Chemistry Res Sheet
PROD00023304	4/15/2009 e-mail from R. Hite to S. Derleth and C. Sweet re: Radioactive Material Shipping Program
PROD00023305	January 2009 Independent Assessment of 10CFR61 Compliance and Radioactive Materials Shipping Program prepared by WMG, Inc.
PROD00023306	Rad shipping program incidents summary 10/14/2008 to 10/14/2009
PROD00023307	10/29/2009 Assessment of High Risk Radioactive Shipments
PROD00023308	Matrix of Xcel employees radioactive shipping safety training

Document Number	Description
PROD00023309	10/6/2009 e-mail from R. Hite to S. Martin re: 95001 inspection preparation
PROD00023310	10/7/2009 Email from S. Derleth to S. Martin & C. Sweet re 95001 Preps evaluation shipping activities for risk
PROD00023311	2/16/2009 Email from R. Hite to C. Sweet and others at Xcel re shipping of cable with hot spec
PROD00023312	10/16/2009 Email from S. Derleth to D. Raebel and others at Xcel re evaluation of shipping activities to Waltz Mill
PROD00023313	11/07/2008 Email from S. Derleth to C. Nash & R. Hite and others re evaluation of fuel sipping equipment shipment
PROD00023314	10/6/2009 email from R. Hite to E. Boyer regarding monitoring of OEs/ARs related to radioactive material shipping
PROD00023315	2/13/2009 email from S. Derleth to K. Huxford regarding Preliminary NRC Yellow Violation regarding transport of material
PROD00023316	4/16/2009 email from R. Hite to S. Derleth, C. Sweet and S. Martin regarding radioactive shipping event
PROD00023317	3/5/2007 Plateau online training log
PROD00023318	Draft memo re: impact of a HELB in the Turbine Building on the Auxiliary Feedwater Pump room
PROD00023319	Memo re: lack of heat-up analysis for the battery room
PROD00023320	5/6/2010 Email from C. Koehler to various PINGP employees related to CAPs and Inspection Preparation
PROD00023321	3/16/2009 Email from D. Malek to M. Smutny & J. Connors re Isolation of CC Lines during HELB Event
PROD00023322	3/19/2009 Email from D. Malek to R. Rohrer & S. Myers re Due Date for Action 25b and Impact on CC/HELB Action List
PROD00023323	Estimated Pipe Break Timeline
PROD00023324	2/24/2010 - Slideshow - All Hands Meeting - PINGP
PROD00023325	8/11/2009 Email from K. Christopher to J. Connors re new CAP related to turbine building HELB analysis
PROD00023326	Attachment 4 - Operating Experience Evaluation Guidelines related to CAP procedure
PROD00023327	5/25/2010 Email from J. Connors to C. Sprout re EC12428 and CC/HELB Inspections
PROD00023328	8/20/2009 Email from J. Connors to D. Kettering re Cause Statements in CAPs
PROD00023329	4/18/2010 Email from P. Wildenborg to J. Connors re CAP Document Issues
PROD00023330	4/28/2009 Email from S. Thomas of Black & Veach Corp. to J. Connors re CL System Analyses
PROD00023331	3/23/2007 Report - Proto Power Corporation Calculation Title Sheet - PINGP - Seismic Event - Failure of a Single Event
PROD00023332	8/4/2009 Spreadsheet - 2009 Root Cause Evaluation
PROD00023333	8/25/2008 Email from B. Slack to G. Hostetter re CR Leakage Calculations
PROD00023334	Actions Required to Swap Unit 2 Inservice Reactor Make-up Tank During a Unit 1 HELB Event
PROD00023335	3/17/2009 Email from D. Herling to M. Smutny & J. Connors re Critical RMU CC HELB Actions
PROD00023336	Actions Required to Swap Unit 2 Inservice Reactor Make-up Tank During a Unit 1 HELB Event
PROD00023337	8/29/2005 Letter from T. Vogel of Automated Engineering Services Corp. to M. Meyer re Proposal: Additional Activities Associated with PINGP HELB Reconstitution Project
PROD00023338	9/26/2009 Email from N. Adams to J. Connors & C. Lethgo re HELB Issues and RCE
PROD00023339	Flow Chart detailing CC/HELB Issues
PROD00023340	5/25/2010 Email from S. Myers to J. Connors re Backlogged ECs and CC/HELB
PROD00023341	Flow Chart detailing CC/HELB Issues

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PROD00023342	Narrative detailing CAP 737382 and the assignments that followed
PROD00023343	Revised Narrative detailing CAP 737382 and assignments that followed
PROD00023344	Narrative detailing CAP 737382 and assignments that followed
PROD00023345	Chart detailing NRC IDs, and their applicability to HELB/CC and other issues
PROD00023346	6/2/2010 Email from S. Scott to J. Connors re CAP Procedures
PROD00023347	6/1/2010 Email from S. Scott to J. Connors re CC/HELB Assessment Potential Issues
PROD00023348	7/17/2009 Common Cause Evaluation Report analyzing ineffective resolution of OE items
PROD00023349	9/15/2009 Email from J. Connors to G. Woodhouse re RCE Due Date and CC/HELB
PROD00023350	10/29/2009 - EVAL-NMPI09-01- Advent Engineering Evaluation Report - Turbine Building HELB Temperature Analysis
PROD00023351	Draft for HELB CAPs - Potential Concern raised with respect to a HELB in the Turbine Building
PROD00023352	Proposal for revised CAPRs and EFR for RCE 685, Flooding
PROD00023353	Nuclear Administrative and Technical Manual - Industry Operating Experience Review rev 24
PROD00023354	Operability Recommendation - CAP 01203173 - Impact of HELB
PROD00023355	RCE 1145695 Report - Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023356	Root Cause Evaluation Charter related to CAP 1145695
PROD00023357	8/18/2009 - Spreadsheet - 2009 Root Cause Evaluation
PROD00023358	9/10/2009 Email from S. Scott to J. Connors re Discussion of RCE 01145695
PROD00023359	RCE PARB Comment and Score Summary related to RCE01145695
PROD00023360	High Energy Line Break Project Schedule
PROD00023361	9/22/2009 Email from J. Connors to N. Adams & C. Lethgo re Proposed Language for RCE Charter
PROD00023362	10/5/2009 Email from J. Connors to C. Lethgo & N. Adams re Discussion of RCE
PROD00023363	2/22/2010 Email from S. Scott to J. Connors re PINGP Managers' Priorities
PROD00023364	List of interview Questions for RCE# 1145695
PROD00023365	List of interview Questions for RCE# 1145695
PROD00023366	10/8/2009 Email from B. Slack to J. Connors re HELB Reconstitution and Licensing
PROD00023367	5/27/2009 Letter from A. Setlur to B. Slack re Proposal to Develop a Safety Related Document for the PI HELB Licensing and Design Bases
PROD00023368	8/3/2009 Email from J. Connors to A. Bierbrauer & A. Smith re Seeking Information related to CC/HELB History
PROD00023369	List of interview Questions for RCE# 1145695
PROD00023370	8/11/2009 List of Interview Questions for RCE# 1145695 - Interviewee Rick Zyduck
PROD00023371	8/10/2009 Email from J. Connors to D. Kettering re Update on CC/HELB Project
PROD00023372	RCE 1145695 Report - Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023373	9/25/2009 RCE 1145695 Report - Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023374	RCE PARB Comment and Score Summary for RCE01145695
PROD00023375	Series of Site Responses to Various RCEs
PROD00023376	RCE 1145695 Report - Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023377	RCE 1145695 Report - Component Cooling Piping Adjacent to HELB Location in Turbine Building

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PROD00023378	RCE 1145695 Report - Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023379	RCE 1145695 Report - Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023380	RCE 1145695 Report - Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023381	RCE 1145695 Report - Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023382	RCE 1145695 Report - Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023383	RCE 1145695 Report - Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023384	RCE 1145695 Report - Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023385	RCE 1145695 Report - Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023386	RCE 1145695 Report - Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023387	9/29/2009 Root Cause Evaluation Charter: CAR AR # 01145695
PROD00023388	RCE Report: PINGP Component Cooling Piping Adjacent to HELB Location in Turbine Building, Event date: 7/28/2008, Revision 2
PROD00023389	RCE PARB Comment and Score Summary: RCE01145695: Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023390	9/8/2009 L. Clewett, RCE Report Evaluation: RCE01145695: Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023391	9/9/2009 R. Madjerich, RCE Report Evaluation: RCE01145695: Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023392	9/9/2009 S. McCall, RCE Report Evaluation: RCE01145695: Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023393	9/9/2009 S. Northard, RCE Report Evaluation: RCE01145695: Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023394	9/9/2009 K. Petersen, RCE Report Evaluation: RCE01145695: Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023395	9/8/2009 B. Rogers, RCE Report Evaluation: RCE01145695: Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023396	9/8/2009 K. Ryan, RCE Report Evaluation: RCE01145695: Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023397	9/7/2009 J. Sternisha, RCE Report Evaluation: RCE01145695: Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023398	10/27/2008 Email from L. Wiles with Numerical to B. Slack with others cc'd re Humidity
PROD00023399	5/25/2010 Email from J. Connors to C. Koehler re 95001 inspection Prep Open EC review
PROD00023400	3/16/2009 Email from J. Connors to D. Malek & M. Smutny, w/ J. Ritter cc'd re Action 25b - CC/HELB SDP
PROD00023401	3/19/2009 Email from J. Connors to D. Malek re Action 25b
PROD00023402	Preliminary Information: Operator action in the turbine building
PROD00023403	3/17/2009 Email from D. Malek to M. Smutny w/ J. Connors cc'd re Action 51
PROD00023404	12/22/2008 Email from B. Slack to K. Oshaksi & G. Hostetter with others cc'd re HELB calculations

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PROD00023405	10/27/2009 Email from J. Connors to J. Ritter re Battery rooms - heat up calcs & HELB Environment
PROD00023406	10/27/2009 Email from J. Connors to J. Ritter re Battery rooms - heat up calcs & HELB environment
PROD00023407	11/6/2009 Email from S. Scott to J. Connors re Calculation errors
PROD00023408	11/6/2009 Email from S. Scott to D. Jensen w/ B. Halvorson & J. Connors cc'd re Calculation errors
PROD00023409	6/1/2010 Email from J. Connors to S. Scott re assignments associated with CC HELB
PROD00023410	6/1/2010 Email from J. Connors to S. Scott re assignments associated with CC HELB
PROD00023411	5/3/2010 Email from P. Wildenborg to J. Connors re CAP operability reviews
PROD00023412	4/28/2009 Email from J. Connors to S. Thomas re CL System Analyses
PROD00023413	10/16/2009 Email from B. Slack to J. Connors & S. Myers re draft CAP for D1, D2 and HELB
PROD00023414	5/4/2010 Email from J. Connors to S. Scott re HELB Support
PROD00023415	10/8/2009 Email from B. Slack to J. Connors re HELB
PROD00023416	10/8/2009 Email from J. Connors to B. Slack re HELB
PROD00023417	8/4/2009 Email from A. Smith to J. Connors & A. Bierbrauer re Information for CC/HELB RCE
PROD00023418	8/3/2009 Email from J. Connors to S. Leingang re Information on CC HELB issue
PROD00023419	Operability Recommendation: information re former site engineer that had additional concerns for the impact of a HELB in the Turbine Building
PROD00023420	6/15/2010 Email from J. Ritter to T. Roddey & D. Malek w/ J. Connors cc'd re PRA Model Question
PROD00023421	PRA Question on DC Panels in Aux Building
PROD00023422	RCE Report: Component Cooling Piping Adjacent to HELB Location in Turbine Building: Event Date: 7/29/2008, Revision 2
PROD00023423	5/3/2010 Email from P. Wildenborg to J. Connors re Question on CC/HELB RCE
PROD00023424	10/14/2009 Email from A. Notbohm to J. Connors w/ D. Kettering cc'd re RCE Issues
PROD00023425	E&CF and Why Staircase for events leading to CC HELB issues
PROD00023426	9/21/2009 Email from A. Notbohm to J. Connors w/ J. Lash & D. Kettering cc'd re Root Cause Evaluation drafting
PROD00023427	9/20/2009 Email from A. Notbohm to J. Connors re Root Cause Evaluation drafting
PROD00023428	9/1/2009 Email from A. Notbohm to J. Connors re comments on draft of Root Cause Evaluation
PROD00023429	10/5/2009 Email from C. Lethgo to J. Connors w/ N. Adams cc'd re Root Cause Evaluation critique
PROD00023430	10/5/2009 Email from A. Notbohm to J. Connors w/ D. Kettering cc'd re comments on Root Cause Evaluation
PROD00023431	4/23/2008 Email from J. Connors to G. Hostetter with Advent Engineering & B. Slack re TB Heat Loads
PROD00023432	4/20/2009 Memo from D. Malek to K. Ryan re CAP01145695, CC Piping adjacent to HELB location in turbine bldg
PROD00023433	8/14/2009 Email from K. Peterson to J. Connors & W. Scholberg re USAR Question
PROD00023434	7/28/2009 Root Cause Evaluation Charter: PINGP failed to ensure design control to adequately protect Unit 2 Component Cooling Water system piping following a seismic-induced HELB event
PROD00023435	9/1/2009 Email from J. Connors to C. Lethgo and others re Root Cause Final Draft comments
PROD00023436	8/14/2009 Email from D. Albarado to J. Connors re thoughts on event narrative
PROD00023437	Apparent Cause Evaluation re CC not being protected from a design basis tornado generated missile

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PROD00023438	3/13/2009 Memo from D. Malek to S. Northard re CAP01145695, CC Piping adjacent to HELB location in turbine building
PROD00023439	Report on the basis to allow down grade of the ZE system to non-safety related.
PROD00023440	Updated E&CF and Why Staircase
PROD00023441	Updated E&CF
PROD00023442	2009 Root Cause Evaluation chart showing status of CAPs
PROD00023443	2009 Root Cause Evaluation chart showing status of CAPs
PROD00023444	Draft memo re: impact of a HELB in the Turbine Building on the operation of D1/D2 Emergency Diesel Generators
PROD00023445	Draft of CAP for Battery Room Cooling issue
PROD00023446	HELB impact on the Component Cooling (CC) System
PROD00023447	New draft CAP for Battery Room Heat-up needed to consider LOOP and HELB conditions and provide a heat-up analysis.
PROD00023448	Operator Action in the Turbine Building - stay times in high temperature and high humidity environment post-HELB
PROD00023449	Operability Recommendation - PI for CAP 01088591, OPR -10, Rev 0 re: battery room heat-up analysis concludes equipment in the battery rooms is operable but non-conforming.
PROD00023450	Memo re: application of 10 CFR 50.59 screening to screening of 7 calculations for the development of inputs to the HELB analysis should be rewritten to clarify activity
PROD00023451	Chart showing change analysis where potential HELB interactions known in 2005 but no immediate actions were taken were rediscovered in 2008 and appropriate actions were taken.
PROD00023452	Root Cause Evaluations criticizing management level accountability for and effectiveness at identifying and correcting operational issues through established processes and procedures and effective strategic planning.
PROD00023453	Apparent Cause Evaluation re: CAP AR# 01145695 re: Component Cooling lines were identified as being affected by HELB in 7/06 but no CAP was initiated apparently due to high work load without proper prioritization.
PROD00023454	Apparent Cause Evaluation CAP AR# 01162511 re: opportunities to identify HELB and CC system interaction were missed apparently due to procedure use and adherence due to cognitive personnel error.
PROD00023455	NRC Inspection Reports re: Kewaunee finding multiple CCW Pipes in close proximity to high energy feedwater lines; Point Beach finding potential common mode failure of Auxiliary Feedwater pumps; and Palo Verde finding a failure to maintain design control of containment sump recirculation piping
PROD00023456	4/24/2000 Letter from J. Grobe of Nuclear Regulatory Commission to R. Powers of American Electric Power Co. (Donald C. Cook Nuclear Generating Plant) re: NRC Inspection Reports 50-315/2000007(DRS) and 50-316/2000007(DRS) and attachments documenting results of special inspection of DC Cook plant to address actions taken to resolve several Case Specific Checklist items.
PROD00023457	Memo re: evaluation of common causes and operational experience show many instances where issues were identified but resolutions have not been completed.
PROD00023458	Draft memo re: unresolved long term equipment issues
PROD00023459	Chart re: unresolved long term equipment issues ranked by priority

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PROD00023460	Chart showing comments from meeting re: RCE Report: Component Cooling Piping Adjacent to HELB Location in Turbine Building. Event Date 7/29/08, RCE 01145695-16
PROD00023461	RCE Report: Component Cooling Piping Adjacent to HELB Location in Turbine Building. Event Date 7/29/08, RCE 01145695-16
PROD00023462	RCE Report - Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023463	RCE Report - Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023464	RCE Report - Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023465	RCE Report - Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023466	RCE Report - Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023467	RCE Report - Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023468	RCE Report - Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023469	RCE Report - Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023470	RCE Report - Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023471	RCE Report - Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023472	RCE Report - Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023473	RCE Report - Component Cooling Piping Adjacent to HELB Location in Turbine Building
PROD00023474	Root Cause Evaluation Charter for RCE 1145695
PROD00023475	Summary of Reasons Why a Second CAP was not written - RCE # 1145695 Interview Questions
PROD00023476	8/13/2009 - Completed RCE # 1145695 Interview Questions with Brian Slack
PROD00023477	8/6/2009 - Completed RCE # 1145695 Interview Questions with Amjid Qureshi
PROD00023478	9/25/2009 - Completed RCE # 1145695 Interview Questions with Don Fricke
PROD00023479	8/5/2009 - Completed RCE # 1145695 Interview Questions with Don Anderson
PROD00023480	8/5/2009 - Completed RCE # 1145695 Interview Questions with unknown
PROD00023481	8/5/2009 - Completed RCE # 1145695 Interview Questions with Gary Wheelcock
PROD00023482	8/6/2009 - Completed RCE # 1145695 Interview Questions with Mark Meyer
PROD00023483	8/6/2009 - Completed RCE # 1145695 Interview Questions with Mark Davis
PROD00023484	8/11/2009 - Completed RCE # 1145695 Interview Questions with Rick Zyduck
PROD00023485	8/11/2009 - Completed RCE # 1145695 Interview Questions with Rick Zyduck
PROD00023486	8/13/2009 - Completed RCE # 1145695 Interview Questions with Scott Leingang
PROD00023487	8/6/2009 - Completed RCE # 1145695 Interview Questions with Sonja Myers
PROD00023488	8/5/2009 - Completed RCE # 1145695 Interview Questions with Steve Thomas
PROD00023489	List of RCE # 1145695 Interview Questions
PROD00023490	List of RCE # 1145695 Interview Questions
PROD00023491	List of RCE # 1145695 Interview Questions
PROD00023492	List of RCE # 1145695 Interview Questions
PROD00023493	List of RCE # 1145695 Interview Questions
PROD00023494	List of RCE # 1145695 Interview Questions

Document Number	Description
PROD00023495	Request for Clarification re RCE # 1145695 Interview Questions with Marc Meyer
PROD00023496	List of RCE # 1145695 Interview Questions
PROD00023497	Request for Clarification re RCE # 1145695 Interview Questions with Mark Davis
PROD00023498	List of RCE # 1145695 Interview Questions
PROD00023499	8/6/2009 - Completed RCE # 1145695 Interview Questions with Scott Leingang
PROD00023500	8/7/2009 - Completed RCE # 1145695 Interview Questions with Sonja Myers
PROD00023501	List of Interview Questions for RCE# 1145695
PROD00023502	Interview Schedule
PROD00023503	Spreadsheet related to CC/HELB Issue History and Action
PROD00023504	Flow Chart related to CC/HELB Issue History and Action
PROD00023505	Event Narrative related to CC/HELB Issue History and Action
PROD00023506	Narrative detailing Condition Evaluation of CAP 1132987
PROD00023507	Narrative detailing Extent of Cause regarding CAP
PROD00023508	List of Interview Questions for RCE# 1145695
PROD00023509	Narrative detailing previous issues related to flooding and HELB
PROD00023510	Narrative discussing reasons for missing deadline promised to AFI EN.2-2
PROD00023511	12/2004 Report - Turbine Building HELB Analysis - Action Plan
PROD00023512	Component Cooling Piping Project - Engineering Work Scope
PROD00023513	Engineering Assistance Request (EAR) re CC Design and Seismic Events
PROD00023514	Report - Component Cooling Water System - Phase 1 Study of Non-safety Related CC Piping
PROD00023515	Report - Component Cooling Water System - Phase 1 Study of Non-safety Related CC Piping
PROD00023516	Report - Component Cooling Water System - Phase 1 Study of Non-safety Related CC Piping
PROD00023517	Report - Component Cooling Water System - Phase 1 Study of Non-safety Related CC Piping
PROD00023518	8/1/2005 Engineering Assistance Request (EAR) - Component Cooling Piping to Cold & Hot Chem Labs are not seismically qualified & HELB is a concern
PROD00023519	6/18/2001 - Analysis of Record and Engineering Calculations
PROD00023520	Event Narrative related to CC/HELB Issue History and Action
PROD00023521	8/17/2006 NMC Report - AT-0175 Action Request Record Report with Attachments
PROD00023522	3/3/2006 Letter from A. Setlur of Automated Engineering Services to M. Meyer re Proposal to Provide Engineering Services for the CC Piping Project
PROD00023523	3/2/2006 Letter from P. Gazda of Stevenson & Associates to M. Meyer re Request for Proposal, CC Piping Project NMC Letter dated February 8, 2006 from M. Meyer to P. Gazda
PROD00023524	RCE Report Template
PROD00023525	5/4/2004 Prairie Island Project Review Group (PRG) Meeting Minutes
PROD00023526	12/7/2004 Prairie Island Project Review Group (PRG) Meeting Minutes
PROD00023527	4/16/2007 Prairie Island Project Review Group (PRG) Meeting Minutes
PROD00023528	3/5/2005 Prairie Island project Review Group (PRG) Meeting Minutes

Document Number	Description
PROD00023529	3/19/2007 Prairie Island Screening Committee Meeting Minutes
PROD00023530	4/16/2007 Prairie Island Screening Committee Meeting Minutes
PROD00023531	4/7/2008 Prairie Island Screening Committee Meeting Minutes
PROD00023532	5/5/2008 Prairie Island Screening Committee Meeting Minutes
PROD00023533	7/24/2006 Prairie Island Screening Committee Meeting Minutes
PROD00023534	7/28/2004 Prairie Island Screening Committee Meeting Minutes
PROD00023535	8/30/2005 Prairie Island Screening Committee Meeting Minutes
PROD00023536	Status of OBD000109 re: Component Cooling System
PROD00023537	Chart re: NRC issue definitions and the applicability and basis of those definitions; Human Performance Failure Modes; Organizational and Management Failure Modes; Process Failure Modes
PROD00023538	Chart re: causal factors and action to take
PROD00023539	RCE 01145695 Document List
PROD00023540	Timeline re: HELB analysis
PROD00023541	RCE 01132717 (Site Response to Issues with SI-9-5); RCE 01132098 (Site Response to 11 TC AFWP Turbine Bearing Failure); RCE 01144249 (TSC Ventilation System Not Maintained Functional); RCE 01141755 (Identified NRC Cross-Cutting Issues); RCE 01157726 (Radioactive Material Shipment Exceeded DOT Limits)
PROD00023542	Report re: Nuclear Safety Significance; Data Analysis; Data Analysis Summary; Failure Mode Summary
PROD00023543	RCE PARB Comment and Score Summary
PROD00023544	Recovery Plan chart with sections for Strategy, Section, Tactical Actions, Owner, Original Due Date, Current Due Date, Status and Notes
PROD00023545	Recovery Plan chart with sections for Strategy, Section, Tactical Actions, Owner, Original Due Date, Current Due Date, Status and Notes
PROD00023546	Point Beach Recovery PowerPoint
PROD00023547	12/11/06 NMC Prairie Island Nuclear Generating Plant Units 1 & 2 Q-List Validation Project
PROD00023548	8/21/2002 letter from L. Myers to U.S. NRC re: Confirmatory Action Letter Response - Management and Human Performance Root Cause Analysis Report on Failure to Identify Reactor Pressure Vessel Head Degradation re: Davis-Besse Nuclear Power Station
PROD00023549	Experience Review re: Davis-Besse Nuclear Power Station
PROD00023550	10/4/1995 Northern States Power Company Prairie Island Nuclear Generating Plant Calculation Cover Sheet re: Single Failure Analysis for the Component Cooling System
PROD00023551	11/21/1990 letter from B. Stephens to D. Mendele re: Prairie Island - Nuclear Projects Department FOI No.A0166, "CL System - Single Failure Analysis" 90XCM5-0106
PROD00023552	Configuration Management Follow-On Item (FOI) Assessment re: CL Single Failure Analysis Open Issues
PROD00023553	9/22/1994 PINGP Configuration Management Follow-on Item (FOI) Assessment re: CC Single Failure Analysis Open Issues

Document Number	Description
PROD00023554	4/19/2010 Project Review Group (PRG) re: ensuring proposed capital and Operations & Maintenance (O&M) activities are subject to effective business evaluations and management review at key decision points prior to committing significant activity evaluation
PROD00023555	6/16/2006 NMC Fleet Procedure Design Inputs
PROD00023556	11/3/2006 NMC Fleet Procedure Design Inputs
PROD00023557	6/26/2009 Nuclear Department Fleet Procedure Design Inputs
PROD00023558	12/11/2002 NMC Corporate Office Quality Procedures
PROD00023559	4/14/2009 Nuclear Department Fleet Procedure Development of Conceptual Design Concept Studies
PROD00023560	12/19/2002 NMC Corporate Office Quality Procedures Operability Determination
PROD00023561	1/9/2006 NMC Fleet Procedure CAP Action Request Process
PROD00023562	3/13/2008 NMC Fleet Procedure CAP Action Request Process
PROD00023563	10/15/2003 NMC Corporate Office Quality Procedures Action Request Process
PROD00023564	9/29/2005 Performance Improvement Action Request Process
PROD00023565	7/30/2004 NMC Corporate Office Quality Procedures Operating Experience Program
PROD00023566	1/16/2002 letter from T. Kim to M. Nazar re: Prairie Island Nuclear Generating Plant, Units 1 and 2 - Opportunity for Comment on TIA 2001-04, "Design Basis Reliance on Non-Seismic and Non-Safety Related Equipment" (TAC Nos. MB18555 and MB1856)
PROD00023567	3/8/1998 letter from B. Wetzel to R. Anderson re: Request for Additional Information (RAI) Regarding the Prairie Island Nuclear Generating Plant Units 1 and 2, Verification of Seismic Adequacy of Mechanical and Electrical Equipment in Operating Reactors (TAC Nos. M69474 and M69475)
PROD00023568	4/6/1998 letter from J. Sorenson to U.S. NRC re: PINGP Response to Verbal Request for Additional Information on the Prairie Island Nuclear Generating Plant, Units 1 and 2, Resolution of Unresolved Safety Issue A-46 (TAC Nos. M69474 and M69475)
PROD00023569	5/7/1998 letter from J. Sorenson to U.S. NRC re: PINGP Response to Request for Additional Information on the Prairie Island Nuclear Generating Plant, Units 1 and 2, Resolution of Unresolved Safety Issue A-46 (TAC Nos. M69474 and M69475)
PROD00023570	5/31/1995 letter from M. Wadley to U.S. NRC re: PINGP Follow-up Response to Generic Letter 87-02, Verification of Seismic Adequacy of Mechanical and Electrical Equipment in Operating Reactors Unresolved Issue (USI) A-48
PROD00023571	8/5/1998 letter from B. Wetzel to R. Anderson re: Resolution of Unresolved Safety Issue (USI) A-46 for Prairie Island Nuclear Generating Plant, Units 1 and 2 (TAC Nos. M69474 and M69475)
PROD00023572	9/26/1997 letter from B. Wetzel to R. Anderson re: Request for Additional Information on the Prairie Island Nuclear Generating Plant Units 1 and 2, Resolution of Unresolved Safety Issue A-46 (TAC Nos. M69474 and M69475)
PROD00023573	9/21/1992 letter from T. Parker to U.S. NRC re: PINGP Response to Supplement 1 to Generic Letter 87-02 on SOUG Resolution of USI A-46
PROD00023574	10/6/1988 letter from D. Muslof to U.S. NRC re: PINGP Response to Generic SER on SOUG Resolution of Unresolved Safety Issue A-46

Document Number	Description
PROD00023575	11/17/1997 letter from J. Sorenson to U.S. NRC re: PINGP Response to Request for Additional Information on the Prairie Island Nuclear Generating Plant, Units 1 and 2, Resolution of Unresolved Safety Issue A-46 (TAC Nos. M69474 and M69475)
PROD00023576	11/20/1995 letter from M. Wadley to U.S. NRC re: PINGP Response to Generic Letter 87.02 Verification of Seismic Adequacy of Mechanical and Electrical Equipment in Operating Reactors Unresolved Issue (USI) A-48 and attachments
PROD00023577	11/30/1992 letter from M. Gamberoni to T. Parker re: Safety Evaluation of Prairie Island Nuclear Generating Plant, Unit Nos. 1 and 2, 120-Day Response to Supplement No. 1 to Generic 87-02 (TAC Nos. M69474 and M69475)
PROD00023578	12/31/2006 letter from M. Wadley to U.S. NRC re: PINGP Followup Response to Generic Letter 87-02, Verification of Seismic Adequacy of Mechanical and Electrical Equipment in Operating Reactors, Unresolved Issue (USI) A-46
PROD00023579	6/19/1987 letter from U.S. NRC to All Operating Licensees, Construction Permit Holders and Applicants for Construction Permits re: Relaxation in Arbitrary Intermediate Pipe Rupture Requirements (Generic Letter 87-11)
PROD00023580	1/28/1992 letter from T. Parker to U.S. NRC re: PINGP Response to NRC Generic Letter 89-13 Service Water System Problems Affecting Safety-Related Equipment
PROD00023581	1/29/1990 letter from T. Parker to U.S. NRC re: PINGP Response to Generic Letter 89-13 Service Water System Problems Affecting Safety-Related Equipment
PROD00023582	2/28/1992 letter from A. Masciatonio to T. Parker re: NRC Generic Letter (GL) 89-13, "Service Water System Problems Affecting Safety Related Equipment," Dated July 18, 1989 (TAC Nos. M74047 and M74048)
PROD00023583	3/15/1990 letter from D. Dilanni to T. Parker re: NRC Generic Letter (GL) 89-13, "Service Water System Problems Affecting Safety-Related Equipment," Dated July 18, 1989
PROD00023584	6/27/1991 letter from T. Parker to U.S. NRC re: PINGP Response Update to NRC Generic Letter 89-13 Service Water System Problems Affecting Safety-Related Equipment
PROD00023585	12/28/1990 letter from T. Parker to U.S. NRC re: PINGP Response Update to NRC Generic Letter 89-13 Service Water System Problems Affecting Safety-Related Equipment
PROD00023586	11/27/2000 LER 1-00-03 Flooding from Postulated Failure of Air/Vacuum Valve Has Potential to Disable Both Trains of Essential Service (Cooling) Water
PROD00023587	9/29/2008 letter from M. Wadley to U.S. NRC re: PINGP LER 2-08-01, Unanalyzed Condition Due to Both Trains of Component Cooling Being Susceptible to a Postulated High Energy Line Break with attached Licensee Event Report
PROD00023588	1/17/2007 letter from R. Anderson to U.S. NRC re: PINGP Determination That Some Component Cooling System Alignments Are Not Within the Intent of Technical Specifications with attached Licensee Event Report
PROD00023589	1/17/2007 letter from M. Wadley to U.S. NRC re: PINGP Hydraulic Flow Modeling of the Cooling Water System Has Shown Lower Than Design Flows to Some Components and attached Licensee Event Report
PROD00023590	Problem Statement re: Review of non-fleet programs (other than HELB) and initiate corrective actions and schedules and summary of recommended actions
PROD00023591	Operability Recommendation Form re: Component Cooling System CAP037747, Non-Seismic Equipment in CC System Pressure Boundary
PROD00023592	9/12/2008 Prairie Island Project Review Group (PRG) Meeting Minutes

Document Number	Description
PROD00023593	Root Cause Evaluation Charter re: Problem Statement: The station failed to ensure safety related functions of the component cooling water system were maintained for initiating events (HELB, tornado, seismic) in the Turbine Building
PROD00023594	8/3/2009 Chemistry Lab Component Cooling Study Prepared for Nuclear Management Company PINGP
PROD00023595	3/28/2008 PINGP Section Work Instruction Development of Engineering Studies
PROD00023596	RCE Report Evaluation
PROD00023597	12/30/1993 Prairie Island Site Northern States Power Company Administrative Work Instruction re: Operability Determinations; 12/30/1993 document, "Operability Determinations", guidance for SSC's, reactor coolant pressure boundary and reactor
PROD00023598	11/15/1999 document, "Operability Determinations" for SSC's, reactor coolant pressure boundary and reactor
PROD00023599	01/12/1999 Operating Experience Assessment Program
PROD00023600	NMC Engineering Human Performance Training to examine the experiences of NASA and PI to facilitate discussion on the special characteristics of nuclear power.
PROD00023601	Additional internal OE, 3 AR requests
PROD00023602	Flowchart documenting history of CC system vulnerabilities, 5/1990 to 8/7/2009
PROD00023603	Attachment 10 Change Analysis re: Potential HELB interactions were known in 2005 but no immediate actions were taken. In 2008 the problem was rediscovered and appropriate actions were taken
PROD00023604	Interview List
PROD00023605	Corrective Action Matrix re: HELB Recovery Plan
PROD00023606	Attachment 5 Supporting Evidence/Reference Documents list of documents
PROD00023607	Flow chart re: Verification and Validation of Worker Practices, Supervisory Oversight, and Procedure
PROD00023608	Attachment 7 Safety Culture Analysis chart with Definition, Applicability, and Basis categories
PROD00023609	Attachment 8 Failure Mode Analysis chart with Failure Mode, Definition, Applicability, and Basis categories Attachment 8 - Failure Mode Analysis
PROD00023610	Attachment 9 - Hazard Barrier Analysis
PROD00023611	Attachment 9 - Hazard Barrier Analysis
PROD00023612	Examples of missed opportunities to identify the significance of the CC/HELB issue found during investigation
PROD00023613	Potential HELB interactions known in 2005 and action taken
PROD00023614	PARB Comment Resolution RCE 1145638 CC/HELB
PROD00023615	Corrective Action Matrix
PROD00023616	Corrective Actions and dates due
PROD00023617	Flowchart documenting history of CC and HELB problems from 5/1990 through 1/2008
PROD00023618	Flowchart documenting history of CC and HELB problems from 5/1990 through 1/2008
PROD00023619	Xcel power point presentation, "Human Performance for Engineers" First Quarter 2009 P7550L-0822
PROD00023620	Extent of conditions, safety-related functions
PROD00023621	01/12/2010 - Follow up questions with Sonja Myers 1/12/10 Followup Questions with Sonja Myers regarding several topics

Document Number	Description
PROD00023622	Cover Page, REC Report, "Component Cooling Piping Adjacent to HELB Location in Turbine Building Event Date 7/29/2008" RCE 01145695-16 CAP AR 01145695
PROD00023623	Mark Reddemann's Comments on CC/HELB RCE
PROD00023624	REC Report, "Component Cooling Piping Adjacent to HELB Location in Turbine Building Event Date 7/29/2008" RCE: 01145695
PROD00023625	REC Report, "Component Cooling Piping Adjacent to HELB Location in Turbine Building Event Date 7/29/2008" REC: 01145695
PROD00023626	REC Report, "Component Cooling Piping Adjacent to HELB Location in Turbine Building Event Date 7/29/2008" REC 01145695
PROD00023627	Cover Page, REC Report, "Component Cooling Piping Adjacent to HELB Location in Turbine Building Event Date 7/29/2008"
PROD00023628	Cover Page, REC Report, "Component Cooling Piping Adjacent to HELB Location in Turbine Building Event Date 7/29/2008"
PROD00023629	1/8/2010 Root Cause Evaluation Charter re: failure to ensure safety related functions of the CC water system were maintained for HELB, tornado, and seismic events in the Turbine Building
PROD00023630	Undated Extent of Condition Assessment re: design controls not properly implemented to insure all design requirements have been properly evaluated
PROD00023631	12/11/2009 Corrective Action to Prevent Recurrence (CAPRs) re: use FP-PA-ARP-01 and RCE as a case study to reinforce expectations about CAP initiation threshold and evaluation with Engineering Supervisors and Managers
PROD00023632	portion of Allis-Chalmers Instruction Book for Air Circuit Breakers
PROD00023633	6/16/2004 page of Engineering Manual for typical pigtail splice for power, control and instrumentation cable up to 600V
PROD00023634	EQ-Splices (UCI Silicone Tape) Procedure rev 8 with effective date 2/28/2007
PROD00023635	pages 17-18 600 V Motor Terminations for okonite cable only
PROD00023636	General Electric Type: Electrical Cable (Vulkene) Model: SI -57275, Type SIS Summary Checklist rev 3 with effective date 6/28/2005
PROD00023637	United Controls Intl' (UCI), Inc. Type: Tape Splice Model: UCI-003XS Summary Checklist rev 1 with effective date 5/15/2005
PROD00023638	Okonite Type: Electrical Cable Model: Okonite/Okolon insulation summary checklist rev 1 with effective date 6/2/2005
PROD00023639	Okonite Type: splicing tapes and cement Model: T-95 and 35 tapes summary checklist rev 6 with effective date 6/2/2005
PROD00023640	DBD Change Notices for Turbine Building
PROD00023641	DBD Change Notices for Cooling Water System
PROD00023642	12/15/2008 B12A Chemical and Volume Control rev 9
PROD00023643	3/9/2009 Design Information Transmittal for EC 13857 re Past Operability Evaluation of U2 Reactor Make Up (RMU)
PROD00023644	3/9/2009 Design Information Transmittal for EC 13857 re Past Operability Evaluation of U2 Reactor Make Up (RMU)
PROD00023645	3/9/2009 Design Information Transmittal for EC 13857 re Past Operability Evaluation of U2 Reactor Make Up (RMU)
PROD00023646	3/9/2009 Design Information Transmittal for EC 13857 re Past Operability Evaluation of U2 Reactor Make Up (RMU)

Document Number	Description
PROD00023647	Summary of the Unit 2 Reactor Makeup (RMU) pump motor and MCC source breaker
PROD00023648	3/18/2009 Design Information Transmittal for EC 13857 re Past Operability Evaluation of U2 Reactor Make Up (RMU)
PROD00023649	3/13/2009 Design Information Transmittal for EC 13857 re Past Operability Evaluation of U2 Reactor Make Up (RMU)
PROD00023650	3/23/2009 Design Information Transmittal for EC 13857 re Past Operability Evaluation of U2 Reactor Make Up (RMU)
PROD00023651	3/18/2009 Design Information Transmittal for EC 13857 re Past Operability Evaluation of U2 Reactor Make Up (RMU)
PROD00023652	3/23/2009 Design Information Transmittal for EC 13857 re Past Operability Evaluation of U2 Reactor Make Up (RMU)
PROD00023653	3/20/2009 Design Information Transmittal for EC 13857 re Past Operability Evaluation of U2 Reactor Make Up (RMU)
PROD00023654	3/24/2009 Design Information Transmittal for EC 13857 re Past Operability Evaluation of U2 Reactor Make Up (RMU)
PROD00023655	3/25/2009 Design Information Transmittal for EC 13857 re Past Operability Evaluation of U2 Reactor Make Up (RMU)
PROD00023656	3/26/2009 Design Information Transmittal for EC 13857 re Past Operability Evaluation of U2 Reactor Make Up (RMU)
PROD00023657	3/30/2009 Design Information Transmittal for EC 13857 re Past Operability Evaluation of U2 Reactor Make Up (RMU)
PROD00023658	List of details re power cables and motor terminations associated with the Unit 2 Reactor Makeup (RMU) pump system
PROD00023659	List of details re power cables and motor terminations associated with the Unit 2 Reactor Makeup (RMU) pump system
PROD00023660	Summary of the Unit 2 Reactor Makeup (RMU) pump motor and MCC source breaker
PROD00023661	Blueprint/diagrams, one of which is Flow Diagram Units 1 and 2 Reactor Made Up & Demineralized Water Systems
PROD00023662	3/30/2009 Design Information Transmittal for EC 13857 re Past Operability Evaluation of U2 Reactor Make Up (RMU)
PROD00023663	data: run time 7/9/2005 at 9:12:15
PROD00023664	data: run time 7/9/2005 at 10:34:26
PROD00023665	data: run time 7/9/2005 at 10:55:13
PROD00023666	data: run time 8/11/2005 at 8:13:41
PROD00023667	data: run time 8/11/2005 at 8:51:14
PROD00023668	data: run time 8/11/2005 at 9:09:55
PROD00023669	Control Volumes data
PROD00023670	3/12/2009 Prairie Island Turbine Building 695' Elevation HELB Temperature & Relative Humidity Sensitivity Study
PROD00023671	8/25/2005 Calculation Package re Turbine Building HELB Pressure Analysis
PROD00023672	3/6/2009 Letter from K Iepson (Iepson Consulting Enterprises Inc) to S Roberto (Xcel) re "Technical Support for the Development of a Past-Operability Analysis for the Prairie Island Nuclear Generating Plant"
PROD00023673	3/6/2009 Letter from K Iepson (Iepson Consulting Enterprises Inc) to S Roberto (Xcel) re "Technical Support for the Development of a Past-Operability Analysis for the Prairie Island Nuclear Generating Plant"
PROD00023674	3/30/2009 Design Review Comment Form re Functional Assessment for the Reactor Makeup Pumps, motors and the associated Electrical Power Supply Components
PROD00023675	3/30/2009 Design Review Comment Form re Functional Assessment for the Reactor Makeup Pumps, motors and the associated Electrical Power Supply Components
PROD00023676	3/20/2009 Letter from K Iepson (Iepson Consulting Enterprises Inc) to S Roberto (Xcel) re "Functional Assessment For The Reactor Make-Up Pump Motors And The Associated Electrical Power Supply Components"
PROD00023677	3/25/2009 Letter from K Iepson (Iepson Consulting Enterprises Inc) to S Roberto (Xcel) re "Functional Assessment For The Reactor Make-Up Pump Motors And The Associated Electrical Power Supply Components"

Document Number	Description
PROD00023678	3/31/2009 Report: Functional Assessment For The Reactor Make-Up Pump Motors And The Associated Electrical Power Supply Components
PROD00023679	10/19/1989 Data File Revision Control Form due to motor needing to be replaced as a result of damage
PROD00023680	7/30/2003 EEC/Minor Mod. Initiation for 22 Reactor Makeup Pump Motor Replacement
PROD00023681	4/22/1999 MCC Test Form for BKR# 253-20
PROD00023682	3/16/1994 Copy of MCC Test Form for #22 Reactor Makeup Water Pump
PROD00023683	EC 13857 Maintenance History (21/22 RMU breakers and motors)
PROD00023684	Photo Related to CC/HELB White Finding
PROD00023685	Photo Related to CC/HELB White Finding
PROD00023686	Photo Related to CC/HELB White Finding
PROD00023687	Photo Related to CC/HELB White Finding
PROD00023688	Photo Related to CC/HELB White Finding
PROD00023689	Photo Related to CC/HELB White Finding
PROD00023690	Photo Related to CC/HELB White Finding
PROD00023691	Photo Related to CC/HELB White Finding
PROD00023692	Photo Related to CC/HELB White Finding
PROD00023693	Photo Related to CC/HELB White Finding
PROD00023694	Photo Related to CC/HELB White Finding
PROD00023695	Photo Related to CC/HELB White Finding
PROD00023696	Photo Related to CC/HELB White Finding
PROD00023697	Photo Related to CC/HELB White Finding
PROD00023698	Photo Related to CC/HELB White Finding
PROD00023699	Photo Related to CC/HELB White Finding
PROD00023700	Photo Related to CC/HELB White Finding
PROD00023701	Photo Related to CC/HELB White Finding
PROD00023702	Photo Related to CC/HELB White Finding
PROD00023703	Photo Related to CC/HELB White Finding
PROD00023704	Photo Related to CC/HELB White Finding
PROD00023705	Photo Related to CC/HELB White Finding
PROD00023706	Photo Related to CC/HELB White Finding
PROD00023707	Photo Related to CC/HELB White Finding
PROD00023708	Photo Related to CC/HELB White Finding
PROD00023709	Photo Related to CC/HELB White Finding
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PROD00023711	Photo Related to CC/HELB White Finding
PROD00023712	Photo Related to CC/HELB White Finding
PROD00023713	Photo Related to CC/HELB White Finding

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PROD00023714	Photo Related to CC/HELB White Finding
PROD00023715	Photo Related to CC/HELB White Finding
PROD00023716	Photo Related to CC/HELB White Finding
PROD00023717	Photo Related to CC/HELB White Finding
PROD00023718	Photo Related to CC/HELB White Finding
PROD00023719	Photo Related to CC/HELB White Finding
PROD00023720	Photo Related to CC/HELB White Finding
PROD00023721	Photo Related to CC/HELB White Finding
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PROD00023731	Photo Related to CC/HELB White Finding
PROD00023732	Photo Related to CC/HELB White Finding
PROD00023733	Photo Related to CC/HELB White Finding
PROD00023734	Photo Related to CC/HELB White Finding
PROD00023735	Photo Related to CC/HELB White Finding
PROD00023736	Photo Related to CC/HELB White Finding
PROD00023737	3/7/2009 Evaluation of the Reactor Makeup Pump
PROD00023738	Diagram 21 Turbine Building Sump Pump
PROD00023739	Blueprint/Diagram 22 Reactor Water Make-Up Pump
PROD00023740	1/7/2002 blueprint/diagram 480V Circuit Diagram Motor Control Center 2D & 2DA
PROD00023741	blueprint/diagram wiring diagram Bus 1 Motor Control Center 2D
PROD00023742	blueprint/diagram Wiring Diagram Bus-2 Motor Control Center 2D
PROD00023743	blueprint/diagram External Connections Motor Control Center 2D
PROD00023744	blueprint/diagram Turbine Building Elev. 695'0" Areas 1A, 1B, 1C, 1D1, 1D2, 1E, 1F, 1G, 1H, 1J1, 1J2, 1K, 1L, 1M, 1N, 1P
PROD00023745	10/31/2000 Manual XH-1053-119 for 4.16 KV/480OV Station Aux Switchgear rev 7 and attachments
PROD00023746	Prairie Island Technical Manual XH-174-2 Reactor Makeup Pump rev 3 (also rev 2) and Goulds Installation, Operation and Maintenance Instructions for model 3196-STD and 3197-STD
PROD00023747	4/19/1996 Manual XH-66-64 for 480V Motor Control Centers Rev 9 and attachments
PROD00023748	3/16/2009 email from S. Roberto to D. Butwin regarding HELB study at PINGP.

Document Number	Description
PROD00023749	3/23/2009 email from S. Roberto to D. Butwin regarding HELB analysis at PINGP.
PROD00023750	3/12/2009 email from K. Vincent to D. Butwin and R. Wise regarding sprinklers in turbine building.
PROD00023751	3/23/2009 email from K. Vincent to D. Malek and J. Ritter regarding assessment of turbine building at PINGP.
PROD00023752	3/17/2009 email from B. Slack to R. Whitlock and S. Roberto regarding HELB measurements.
PROD00023753	3/13/2009 email from S. Roberto to D. Butwin regarding HELB study at PINGP.
PROD00023754	3/20/2009 email from D. Butwin to S. Roberto regarding functional assessment of turbine building at PINGP.
PROD00023755	Highlights of conference call regarding HELB cases at PINGP.
PROD00023756	Discussion of safety determinations regarding, inter alia, HELB at PINGP.
PROD00023757	3/18/2009 DIT form containing preliminary HELB pressure analysis.
PROD00023758	3/10/2009 email from D. Butwin to K. Vincent regarding CC at PINGP.
PROD00023759	3/16/2009 email from D. Butwin to S. Roberto regarding DIT for HELB study at PINGP.
PROD00023760	Summary of conditions relative to CC surge tanks at PINGP.
PROD00023761	3/10/2009 notes from conference call discussing, inter alia, HELB at PINGP.
PROD00023762	3/23/2009 email from J. Ritter to K. Vincent and S. Roberto regarding pump at PINGP.
PROD00023763	3/30/2009 IEPSON report on functional assessment of components at PINGP.
PROD00023764	3/16/2009 email from D. Butwin to S. Roberto regarding HELB study at PINGP.
PROD00023765	3/1/2009 memo from S. Northard to D. Malek regarding CC piping adjacent to HELB location in turbine building.
PROD00023766	3/12/2009 conference call notes regarding, inter alia, HELP temperature sensitivity study.
PROD00023767	6/18/2010 Email from Thomas Roddey to Dennis Koehl and others re: small high energy line inspected not previously evaluated for HELP impacts
PROD00023768	6/21/2010 Draft of Report " Review of Potential HELB Interaction Identified During NRC 95001 Inspection" regarding a small high energy line that had not been previously evaluated
PROD00023769	6/18/2010 Email from Sherry Schmidt to DL-PI-AR Screening re: AR screening results and procedure if necessary to re-screen CAPs
PROD00023770	6/18/2010 NSPM CAP Screen Team Meeting Template and results of AR screening
PROD00023771	6/17/2010 Email from Thomas Roddey to Sam DiPasquale and others re: Daily update of CC-HELB 95001 Inspection and three potential findings
PROD00023772	6/21/2010 Email from Sam DiPasquale to di-pi-Regulatory Inspection Daily Briefings and others re: Monday update of the CC-HELB 95001 Inspection
PROD00023773	6/16/2010 Email from Jon Anderson to Bradley Sawatzke re: permanent fix to internal flooding issue
PROD00023774	6/22/2010 Email from Jennifer Greninger to DL-MT-MEM re: MEM info including among other thing Action Register and daily CAP information
PROD00023775	6/16/2010 Email form David Kettering to Corey Hessen and others re: Engineering Issue for 6/16/2010-end of shift status including status of CC HELB Inspection
PROD00023776	6/17/2010 Email form David Kettering to Corey Hessen and others re: Engineering Issue for 6/17/2010-end of shift status including status of CC HELB Inspection

Document Number	Description
PROD00023777	6/18/2010 Email from David Kettering to Corey Hessen and others re: Engineering Issue for 6/18/2010-end of shift status including status of CC HELB Inspection
PROD00023778	6/21/2010 Email from David Kettering to Corey Hessen and others re: Engineering Issue for 6/21/2010-end of shift status including information about the CC HELB Inspection
PROD00023779	6/15/2010 Agenda and Supporting Project Documents for the Project Review Group Meeting
PROD00023780	6/9/2010 Nuclear Project Authorization (NPA) form for the HELB Flooding Program Reconstitution Project
PROD00023781	6/16/2010 Email from Sam DiPasquale to di-pi Regulatory Inspection Daily Briefings and others re: CC HELB 95001 Inspection daily update
PROD00023782	6/21/2010 Email from David Kettering to Corey Hessen and others re: feasibility of ECR 4719 project concerning flooding of Turbine Building
PROD00023783	6/16/2010 Email from Jon Anderson to Thomas Roddey and other re: Midday Debrief of 95001 Inspection and issue that may lead to a potential finding
PROD00023784	6/17/2010 Email from Thomas Roddey to di-pi-Regulatory Inspection Daily briefings re: Current Status of 95001 Inspection including NRC Interviews continuing, NRC walkdown completed, and Potential Findings
PROD00023785	Undated memo evaluating timing of both units staff response to HELP in one unit
PROD00023786	3/5/2009 NRC Question Response Form re: use of the De-aerating Steam Line
PROD00023787	3/5/2009 NRC Question Response Form re: During HELB may fire protection system be activated and with what result? Language from "Operator response to Fire Protection System Alarms wit a High Energy Line Break" provided.
PROD00023788	3/5/2009 NRC Question Response Form re: policies and procedures related to Operations staffing out-plant operations personnel including shift turnover and special circumstances
PROD00023789	3/13/2009 NRC question and response - policies/procedures related to operations staffing during plant operation
PROD00023790	3/13/2009 email from M. Smutny to D. Malek, J. Ritter, J. Connors, B. Slack re: operations personnel function during CC/HELB event
PROD00023791	4/8/2009 email from M. Smutny to W. Sexson re: stuck valve effect on CC flow test
PROD00023792	4/27/2009 email from M. Smutny to W. Scholberg re: total times for cooling water and fire protection
PROD00023793	3/12/2009 email from D. Smith to S. Seilhymer re: potential letdown paths during CC/HELB event
PROD00023794	3/9/2009 NRC question and response - insight into operational history of the De-aerating Steam Line
PROD00023795	3/9/2009 NRC question and response - "describe the response operations would take to a fire alarm"
PROD00023796	3/18/2009 email from M. Smutny to D. Malek re: answers to NRC's inquiries about hypothetical CC/HELB event
PROD00023797	3/18/2009 email from M. Smutny to D. Malek re: discussion about answers to NRC's inquiry about hypothetical CC/HELB event
PROD00023798	3/23/2009 email from M. Smutny to D. Malek, R. Best re: answers for NRC regarding hypothetical CC/HELB event
PROD00023799	3/30/2009 email from M. Smutny to D. Herling re: fire detection system during postulated HELB event
PROD00023800	3/16/2009 email from M. Smutny to J. Ritter re: Operations discussion for CC/HELB event scenarios
PROD00023801	5/6/2009 email from M. Smutny to J. Ritter re: CC/HELB event scenarios
PROD00023802	4/3/2009 email from M. Smutny to W. Sexson re: CC valve
PROD00023803	8/6/2009 email from M. Smutny to D. Malek re: CC/HELB simulator feedback

Document Number	Description
PROD00023804	5/13/2009 email from M. Smutny to J. Ritter re: CC/HELB discussion regarding re-starting the charging pumps
PROD00023805	5/10/2009 email from M. Smutny to J. Ritter, T.Borgen re: human reliability analysis for C14 AOP1 actions
PROD00023806	5/21/2009 email from M. Smutny to J. Ritter re: cooling water pumps failure scenarios
PROD00023807	5/22/2009 email from M. Smutny to J. Ritter re: loss of cooling water scenarios
PROD00023808	3/13/2009 email from M. Smutny to D. Malek re: Operator response to Fire Alarms associated with a HELB
PROD00023809	3/12/2009 email from M. Smutny to P. Kluskowski re: OPS Lead for CC/HELB
PROD00023810	4/6/2009 email from M. Smutny to R. Lawrie, W. Sexson re: CC/HELB issue test
PROD00023811	3/13/2009 email from M. Smutny to J. Ritter re: alternate water refill sources
PROD00023812	3/3/2009 email from J. Ritter to M.Smutny re: temperature of source water supplied to the RWST
PROD00023813	3/13/2009 email from M. Smutny to M. Smutny, J. Ritter re: CC/HELB simulator discussion
PROD00023814	3/13/2009 email from M. Smutny to J. Ritter re: CC/HELB simulator discussion
PROD00023815	4/13/2009 email from M. Smutny to B. Horner, W.Sexson re: Turbine Building HELB/ CC work management process
PROD00023816	3/17/2009 email from M. Smutny to J. Ritter, W. Scholberg re: Turbine building flooding information for CC/HELB
PROD00023817	CE 1233806-02 potential sources of continued refueling cavity leakage
PROD00023818	10/19/2009 Summary of Recent Site Refueling Cavity Leakage
PROD00023819	6/9/2010 email from T. Downing to P. Zuwaski, S. Skoyen, K. Stoeder re comments on refueling cavity leakage draft
PROD00023820	6/9/2010 email from T. Downing to P. Zuwaski, S. Skoyen re comments on refueling cavity leakage draft
PROD00023821	Refueling Water Level Computer Screenshot
PROD00023822	6/11/2010 Email from D. Rippentrop to M. Schimmel and others @ Xcel re: identified issues from CC HELB Pre-95001 inspection assessment
PROD00023823	6/17/2010 Email from J. Anderson to G. Salamon and others at Xcel re: list of CC HELB issues
PROD00023824	6/17/2010 Email from T. Roddey to S. DiPasquale, *dl-pi-Regulatory Inspection Daily Briefings, D. Koehl, T. Roddey, and S. Ford re: CC-HELB 95001 Inspection potential findings
PROD00023825	6/21/2010 Email from S. DiPasquale to *dl-pi-Regulatory Inspection Daily Briefings, D. Koehl, T. Roddey, and S. Ford re: CC-HELB 95001 Inspection potential findings
PROD00023826	6/14/2010 Component Cooling Water System High Energy Line Break 95-001 Inspection presentation
PROD00023827	6/10/2010 Email from J. Anderson to S. DiPasquale and other @ Xcel re: analysis of CC/HELB and internal flooding
PROD00023828	6/8/2010 List of corrective action program items for CDBI Inspection
PROD00023829	6/14/2010 Component Cooling Water System High Energy Line Break 95-001 Inspection
PROD00023830	6/17/2010 e-mail from T. Roddey to Regulatory Inspection Daily Briefings e-mail distribution list re: CC/HELB 95001 Inspection
PROD00023831	6/15/2010 e-mail from T. Roddey to Regulatory Inspection Daily Briefings e-mail distribution list re: CC/HELB 95001 Inspection
PROD00023832	File was unable to be processed
PROD00023833	06/15/2010 author unknown document re CC-HELB 95001 Interview Schedule
PROD00023834	06/21/1010 author unknown memo/report re Review of potential HELB interaction concern that were identified during the NRC 95001 inspection.

Document Number	Description
PROD00023835	06/09/2010 author unknown equipment pictures, ongoing planned actions for HELB reconstitution project memo and a Nuclear Project Authorization project plan form re analysis of the consequences of pipe ruptures (high energy line breaks or HELB) outside containment
PROD00023836	05/18/2010 author unknown memo re preparations and questions relating to 95001 CC-HELB inspection identifying anticipated main points of discussion
PROD00023837	Date unknown author unknown NRC Question Response form No entries noted on the form
PROD00023838	06/15/2010 NRC Team NRC Question Response Form re Question on tasking to provide the battery room heat up calc provided in RCE Reference D53
PROD00023839	6/15/2010 NRC Team NRC Question Response Form re request for location of specific guidance in FP-Bus-PRG-01 that governs 3 topics
PROD00023840	06/16/2010 NRC Team NRC Question Response Form re tasking for a question about the probabilistic assessment used to establish a tornado missile design
PROD00023841	06/16/2010 NRC Team NRC Question Response Form re tasking for a question about the acceptability of the use of non-safety related charging pumps
PROD00023842	06/15/2010 NRC Team NRC Question Response Form re answer to tasking that requests the battery room heat up calc. Provides document links and states the actions are currently on going to complete the task
PROD00023843	06/16/2010 request J. Ellegood initiated T.Roddey answer K.Kriesel NRC Question Response Form re answers the question of why the CC is not required to safely shut down following a design basis seismic earthquake.
PROD00023844	5/21/2009 Passport document prepared by R.Waterman reviewed by S.Myers re 50.69 Screening for tornado/severe thunderstorm compensatory measures for CC piping in the auxiliary building fuel handling area. Concludes that neither a CFR 50.69 evaluation nor a USFAR change are required
PROD00023845	06/15/2010 Request by NRC Team response by S.Ford NRC Question Response Form re 50.69 screening document is attached as an answer to the request for the screening
PROD00023846	06/15/2010 Request by NRC Team response by S.Ford NRC Question Response Form re requested screening forms used at PRG are attached as an answer to the request for the PRG forms
PROD00023847	06/16/2010 Request by NRC Team initiated by S.DiPasquale response by K.Kriesel NRC Question Response Form re answers that a probabilistic approach was used to determine a use-as-is with no additional approvals required as an answer to the question
PROD00023848	06/16/2010 Request by NRC Team initiated by S.DiPasquale response by K.Kriesel NRC Question Response Form re answers why non-safety related charging pumps are acceptable
PROD00023849	12/09/2008 author unknown Xcel Energy 10CFR 50.59 implementation directive Re promulgates standardized 10CFR 50.69 implementation policy for all Xcel energy plants.
PROD00023850	06/08/2010 Sara Scott Xcel Energy Nuclear Department Fleet Guidance 50.69 Resource manual re provide standardized instructions and guidance for implementing the 10CFR50.69 process for all Xcel plants
PROD00023851	03/02/2010 D.Kettering Fleet mentoring Guide - engineering support personnel training program re standardized mentoring on how to prepare a 50.69 screening. Completion of the training is required prior to being designated as a 50.69 screening reviewer

Document Number	Description
PROD00023852	03/02/2010 D.Kettering Fleet Mentoring Guide - engineering support personnel training program re standardized mentoring on how to prepare a 50.69 screening. Completion of the training is required prior to being designated as a 50.69 screening reviewer
PROD00023853	03/03/2010 J.Olathe M.Schimmel Temporary Change Request document re Edited 10CFR 10.59 and 72.48 processes Rev 2 document addresses pre-job brief requirements for 50.69 or 72.48 screening preparations.
PROD00023854	Date unknown author unknown Xcel Energy 50.59 Screening document re blank Xcel Energy 50.59 Screening checklist
PROD00023855	Xcel Energy 50.59 Evaluation document re blank Xcel Energy 50.59 Evaluation checklist
PROD00023856	6/10/2010 NRC Question Response Form re request for 50.59 screening and evaluation procedures and forms
PROD00023857	11/11/2009 PINGP Section Work Instruction SWI ENG-32 Rev. 5: 50.59 Process
PROD00023858	6/17/2010 NRC Question Response Form re steam dumps to mitigate break outside containment
PROD00023859	Photo Related to CC/HELB White Finding
PROD00023860	Photo Related to CC/HELB White Finding
PROD00023861	Photo Related to CC/HELB White Finding
PROD00023862	Photo Related to CC/HELB White Finding
PROD00023863	6/17/2010 NRC Question Response Form re HELB questions and information requested by NRC
PROD00023864	6/21/2010 Report: Review of Potential HELB Interaction Concern During NRC 95001 Inspection
PROD00023865	6/9/2010 Nuclear Project Authorization: HELB Flooding Program Reconstitution Project
PROD00023866	6/21/2010 Report: Review of Potential HELB interaction Concern During NRC 95001 Inspection
PROD00023867	6/17/2010 NRC Question Response Form re CL Piping question
PROD00023868	6/17/2010 NRC Question Response Form re resource commitment documentation
PROD00023869	6/17/2010 NRC Question Response Form re questions about walkdown observations
PROD00023870	6/17/2010 NRC Question Response Form re solenoid valve SV-37039
PROD00023871	6/17/2010 NRC Question Response Form re solenoid valve SV-37039
PROD00023872	6/14/2010 NRC Question Response Form re safety related systems in non-safety related buildings
PROD00023873	6/14/2010 PASSPORT Action Tracking Action Request Report TIPAA10 re configuration of CC piping
PROD00023874	List with accompanying photos of CL piping configurations
PROD00023875	8/4/2008 Engineering Change: Turbine Building HELB Walkdown
PROD00023876	3/15/2010 Calculation Revision - Include new FW & CD analysis for the turbine bldg & remove design basis cracks from calculation
PROD00023877	12/30/1999 Analysis of Record and Engineering Calculations - Appendix I - Break Location Selection
PROD00023878	9/11/2000 Analysis of Record and Engineering Calculations - Appendix I - Break Location Selection
PROD00023879	12/20/1999 PINGP Calculation Analysis - Appendix I - High Energy Line Breaks - Break Location Selection
PROD00023880	5/21/1999 Analysis of Record and Engineering Calculations - Jet Impingement for High Energy Line Break
PROD00023881	Index - CC-HELB 95001 Inspection - Question 6
PROD00023882	Photo Related to CC/HELB White Finding
PROD00023883	Photo Related to CC/HELB White Finding

Document Number	Description
PROD00023884	Photo Related to CC/HELB White Finding
PROD00023885	Photo Related to CC/HELB White Finding
PROD00023886	Photo Related to CC/HELB White Finding
PROD00023887	Photo Related to CC/HELB White Finding
PROD00023888	Photo Related to CC/HELB White Finding
PROD00023889	Photo Related to CC/HELB White Finding
PROD00023890	Photo Related to CC/HELB White Finding
PROD00023891	Photo Related to CC/HELB White Finding
PROD00023892	Photo Related to CC/HELB White Finding
PROD00023893	Photo Related to CC/HELB White Finding
PROD00023894	Photo Related to CC/HELB White Finding
PROD00023895	Photo Related to CC/HELB White Finding
PROD00023896	Photo Related to CC/HELB White Finding
PROD00023897	Photo Related to CC/HELB White Finding
PROD00023898	Photo Related to CC/HELB White Finding
PROD00023899	Photo Related to CC/HELB White Finding
PROD00023900	Photo Related to CC/HELB White Finding
PROD00023901	Photo Related to CC/HELB White Finding
PROD00023902	Photo Related to CC/HELB White Finding
PROD00023903	Photo Related to CC/HELB White Finding
PROD00023904	Photo Related to CC/HELB White Finding
PROD00023905	Photo Related to CC/HELB White Finding
PROD00023906	Photo Related to CC/HELB White Finding
PROD00023907	Photo Related to CC/HELB White Finding
PROD00023908	Photo Related to CC/HELB White Finding
PROD00023909	Photo Related to CC/HELB White Finding
PROD00023910	Photo Related to CC/HELB White Finding
PROD00023911	Photo Related to CC/HELB White Finding
PROD00023912	Photo Related to CC/HELB White Finding
PROD00023913	Photo Related to CC/HELB White Finding
PROD00023914	Photo Related to CC/HELB White Finding
PROD00023915	Photo Related to CC/HELB White Finding
PROD00023916	Photo Related to CC/HELB White Finding
PROD00023917	Photo Related to CC/HELB White Finding
PROD00023918	List of Photo Captions for CC, CL Piping and SR Conduits
PROD00023919	6/14/2010 NRC Question Response Form related to HELB Screening Criteria
PROD00023920	5/31/1994 Analysis of Record and Engineering Calculations - Tornado & Seismic Evaluation of D1 & D2 Comp

Document Number	Description
PROD00023921	5/22/2009 Operability Recommendation related to CAP 1174493 - Location of CC Piping - Includes Attachments
PROD00023922	6/14/2010 NRC Question Response Form related to Location of CC Valve and Tornado Event
PROD00023923	6/18/2010 NRC Debrief Meeting Attendance Sheet (Blank)
PROD00023924	Power Point re: 6/14 - 6/18/2010 CC/HELB 95-001 Inspection
PROD00023925	Power Point re: 6/14 - 6/18/2010 CC/HELB 95-001 Inspection
PROD00023926	6/11/2010 e-mail from D. Rippentrop to M. Schimmel and others at Xcel re: 6/14 - 6/18/2010 CC/HELB 95-001 inspection
PROD00023927	NOS Observation Report #2010-02-027 re: 6/1/2010 to 6/4/2010 Pre-95001 Inspection Assessment - CC/HELB
PROD00023928	6/21/2010 Summary of T. Roddey and others from Xcel Discussion with NRC re: CC/HELB
PROD00023929	6/14/2010 e-mail from S. DiPasquale to T. Roddey and others at Xcel re: 6/14 - 6/18/2010 CC/HELB 95-001 inspection
PROD00023930	6/11/2010 e-mail from T. Roddey to C. Hessen and others at Xcel re: 6/14 - 6/18/2010 CC/HELB 95-001 inspection
PROD00023931	Power Point presentation re: 6/14 - 6/18/2010 CC/HELB 95-001 inspection
PROD00023932	6/10/2010 summary of HELB analysis prepared by S. Ford
PROD00023933	6/17/2010 e-mail from T. Roddey to D. Kettering re: CC/HELB 95-001 inspection
PROD00023934	Photo Related to CC/HELB White Finding
PROD00023935	6/7/2010 e-mail from T. Roddey to S. DiPasquale re: 6/14 - 6/18/2010 CC/HELB 95-001 inspection
PROD00023936	6/14/2010 e-mail from J. Anderson to S. DiPasquale re: 6/14 - 6/18/2010 CC/HELB 95-001 inspection
PROD00023937	6/16/2010 e-mail from T. Roddey to S. DiPasquale re: 6/14 - 6/18/2010 CC/HELB 95-001 inspection
PROD00023938	6/15/2010 e-mail from T. Roddey to S. DiPasquale re: 6/14 - 6/18/2010 CC/HELB 95-001 inspection
PROD00023939	6/14/2010 e-mail from T. Roddey to S. DiPasquale re: 6/14 - 6/18/2010 CC/HELB 95-001 inspection
PROD00023940	6/15/2010 e-mail from J. Anderson to S. DiPasquale and others at Xcel re: 6/14 - 6/18/2010 CC/HELB 95-001 inspection
PROD00023941	6/8/2010 e-mail from T. Roddey to S. DiPasquale and others at Xcel re: 6/14 - 6/18/2010 CC/HELB 95-001 inspection
PROD00023942	6/15/2010 e-mail from S. DiPasquale to T. Roddey and others at Xcel re: 6/14 - 6/18/2010 CC/HELB 95-001 inspection
PROD00023943	6/10/2010 e-mail from J. Anderson to S. DiPasquale re: CC/HELB
PROD00023944	6/9/2010 e-mail from S. Charbonneau to S. DiPasquale re: 6/14 - 6/18/2010 CC/HELB 95-001 inspection
PROD00023945	6/11/2010 e-mail from G. Salamon to S. DiPasquale re: 6/14 - 6/18/2010 CC/HELB 95-001 inspection
PROD00023946	6/11/2010 e-mail from G. Salamon to S. DiPasquale re: 6/14 - 6/18/2010 CC/HELB 95-001 inspection
PROD00023947	6/11/2010 e-mail from G. Salamon to S. DiPasquale re: 6/14 - 6/18/2010 CC/HELB 95-001 inspection
PROD00023948	6/10/2010 e-mail from A. Capristo to T. Roddey re: 6/14 - 6/18/2010 CC/HELB 95-001 inspection
PROD00023949	6/10/2010 e-mail from T. Roddey to S. DiPasquale and others at Xcel re: 6/14 - 6/18/2010 CC/HELB 95-001 inspection
PROD00023950	6/10/2010 e-mail from S. Ford to S. DiPasquale re: 6/14 - 6/18/2010 CC/HELB 95-001 inspection
PROD00023951	6/10/2010 e-mail from A. Capristo to S. DiPasquale re: 6/14 - 6/18/2010 CC/HELB 95-001 inspection
PROD00023952	6/14/2010 e-mail from J. Anderson to T. Roddey re: 6/14 - 6/18/2010 CC/HELB 95-001 inspection
PROD00023953	6/16/2010 e-mail from T. Roddey to J. Anderson and others at Xcel re: 6/14 - 6/18/2010 CC/HELB 95-001 inspection
PROD00023954	6/15/2010 e-mail from T. Roddey to Inspection Daily Briefings e-mail distribution list re: 6/14 - 6/18/2010 CC/HELB 95-001 inspection

Document Number	Description
PROD00023955	Exit Meeting documentation re: Pre-95001 Inspection Assessment - CC/HELB
PROD00023956	Summary of 95001 Inspection Preparation Issues
PROD00023957	Summary of CC/HELB 95001 Inspection Lessons Learned
PROD00023958	June 14-18, 2010 CC HELB Team Roster
PROD00023959	5/11/2010 Shift Turnover Sheet - Shift: Swings 1400-0000
PROD00023960	5/11/2010 Shift Turnover Sheet - Shift: Swings Nights 200-0800
PROD00023961	5/11/2010 Shift Turnover Sheet - Shift: Swings 1400-0000
PROD00023962	5/12/2010 Shift Turnover Sheet - Shift: Days 0600-1600
PROD00023963	5/12/2010 Shift Turnover Sheet - Shift: Swings 1400-0000
PROD00023964	10/4/2009 Shift Turnover Sheet - Shift: Nights
PROD00023965	10/6/2009 Shift Turnover Sheet - Shift: Days
PROD00023966	10/6/2009 Shift Turnover Sheet - Shift: Nights
PROD00023967	10/7/2009 Shift Turnover Sheet - Shift: Days
PROD00023968	10/7/2009 Shift Turnover Sheet - Shift: Nights
PROD00023969	10/8/2009 Shift Turnover Sheet - Shift: Days
PROD00023970	10/8/2009 Shift Turnover Sheet - Shift: Nights
PROD00023971	10/9/2009 Shift Turnover Sheet - Shift: Days
PROD00023972	10/9/2009 Shift Turnover Sheet - Shift: Nights
PROD00023973	10/10/2009 Shift Turnover Sheet - Shift: Days
PROD00023974	10/10/2009 Shift Turnover Sheet - Shift: Nights
PROD00023975	10/11/2009 Shift Turnover Sheet - Shift: Days
PROD00023976	10/11/2009 Shift Turnover Sheet - Shift: Nights
PROD00023977	10/12/2009 Shift Turnover Sheet - Shift: Days
PROD00023978	10/12/2009 Shift Turnover Sheet - Shift: Nights
PROD00023979	10/13/2009 Shift Turnover Sheet - Shift: Days
PROD00023980	10/13/2009 Shift Turnover Sheet - Shift: Nights
PROD00023981	10/24/2009 Shift Turnover Sheet - Shift: Days
PROD00023982	Spreadsheet - PINGP 1R26 OCC Training
PROD00023983	11/30/2006 -Untitled Form related to Water Leakage into Sump B coincidental with Refueling Pool flood
PROD00023984	12/2/2006 Narrative - Summary of Refuel Cavity Leakage in 2R24
PROD00023985	Photo Related to Refueling Cavity Leakage
PROD00023986	Photo Related to Refueling Cavity Leakage
PROD00023987	Spreadsheet - Copy of Engineering WOs for 1R23
PROD00023988	6/14/2010 Spreadsheet - PINGP 2R22 Engineering Outage Service Center Log
PROD00023989	Spreadsheet - EOSC Engineering Task Tracker
PROD00023990	Spreadsheet - EOSC Engineering Task Tracker
PROD00023991	Spreadsheet - EOSC Engineering Task Tracker

Document Number	Description
PROD00023992	Spreadsheet - EOSC Engineering Task Tracker
PROD00023993	Spreadsheet - EOSC Engineering Task Tracker
PROD00023994	Agenda prepared for 10/17/2003 2R22 EOSC Post Outage Critique Meeting
PROD00023995	Agenda prepared for 10/17/2003 2R22 EOSC Post Outage Critique Meeting
PROD00023996	Photo Related to Refueling Cavity Leakage
PROD00023997	Photo Related to Refueling Cavity Leakage
PROD00023998	5/17/2010 Email from S. Skoyen to L. Johnson, R. Murray & D. Schantzen re Refueling Cavity Walkdown for SP 2750 Part A
PROD00023999	Photo Related to Refueling Cavity Leakage
PROD00024000	Spreadsheet - EOSC Engineering Task Tracker
PROD00024001	Photo Related to Refueling Cavity Leakage
PROD00024002	Spreadsheet related to Unit 1 - Sump B - In-Leakage History
PROD00024003	Spreadsheet related to Unit 2 - Sump B - In-Leakage History
PROD00024004	5/13/2010 Documentation Request for 95001 CC-HELB PI Supplemental Inspection
PROD00024005	5/13/2010 Documentation Request for 95001 CC-HELB PI Supplemental Inspection
PROD00024006	Engineering Human Performance lesson plan
PROD00024007	Indications of Organizational Culture Weaknesses
PROD00024008	Hypothetical scenarios to illustrate CAP decision-making
PROD00024009	Design & Licensing Basis lesson plan
PROD00024010	Power Point presentation titled Design & Licensing Basis
PROD00024011	RCE 1145695 CC Piping Adjacent to a HELB Area re: employee training
PROD00024012	Update Log Form re: Component Cooling Water System
PROD00024013	Power Point presentation titled Component Cooling System (CC)
PROD00024014	Temporary Change Request form and Performance Assessment Program manual
PROD00024015	Xcel manual titled Disposition of Non-Conforming Items
PROD00024016	Xcel document titled Corrective Action Effectiveness Review Manual
PROD00024017	Department Roll Up Meeting (DRUM) Manual - Department Performance Trending (4/27/2010)
PROD00024018	Cover Page from Fleet Procedure titled Deleted
PROD00024019	Xcel procedure manual titled Operability/Functionality Determination (4/28/2010)
PROD00024020	Xcel procedure manual titled Non-Cap Action Request Process (11/3/2009)
PROD00024021	Xcel procedure manual titled Operating Experience Program (7/15/2009)
PROD00024022	Xcel Apparent Cause Evaluation Manual (4/29/2010)
PROD00024023	Xcel manual titled Preparation and Conduct of Mid-Cycle and Follow-up Assessments (2/19/2010)
PROD00024024	Xcel manual titled Focused Self-Assessment Planning, Conduct and Reporting (2/25/2010)
PROD00024025	Xcel manual titled Focused Self-Assessment and Formal Benchmarking Scheduling (2/25/2010)
PROD00024026	Xcel manual titled SnapShot Evaluation (12/1/2008)
PROD00024027	RCE Report re: Component Cooling Piping Adjacent to HELB Location in Turbine Building on 7/29/2008

Document Number	Description
PROD00024028	Action Request Report re: CAP for CC piping adjacent to HELB location in turbine building
PROD00024029	Action Request Report re: CAP for non-seismic equipment in CC sys press boundary
PROD00024030	Action Request Report re: CAP for performing seismic analysis
PROD00024031	Action Request Report re: CAP for Turbine building HELB funding delays
PROD00024032	Action Request Report re: CAP for identification of HELB and CC system interaction
PROD00024033	Action Request Report re: CAP for Non-seismic equipment in CC sys press boundary
PROD00024034	Calculations for Single Failure Analysis for Component Cooling System (10/1995)
PROD00024035	9/12/2008 Project Review Group (PRG) Meeting Minutes
PROD00024036	RCE Report titled Identified NRC Crosscutting Issues, 7/2/2008
PROD00024037	RCE Report titled SCAQ - Inadequate CAP Resolution of Significant Issues, 1/26/2009
PROD00024038	1/2008 Chemistry Lab Component Cooling Study prepared by Sargent & Lundy
PROD00024039	Text document re: CAPs for HELB issue and turbine building
PROD00024040	List of EQ Components Located in the Turbine Building
PROD00024041	Screen shots of Equipment/Component/UTC Parameters
PROD00024042	Apparent Cause Evaluation re: CC lines affected by 7/2006 HELB
PROD00024043	9/19/2008 Apparent Cause Evaluation grading sheet re: ACE 01145695
PROD00024044	9/22/2008 Engineering Change Request re: Alternate Cooling for the Cold Lab
PROD00024045	9/12/2008 Project Review Group (PRG) Meeting Minutes
PROD00024046	Undated spreadsheet listing Action Requests
PROD00024047	12/8/2008 Project Review Group (PRG) Meeting Minutes
PROD00024048	Action Request Report re: CAP for CC piping adjacent to HELB location in turbine building
PROD00024049	Xcel procedure manual titled Development of Conceptual Design Concept Studies (12/10/2009)
PROD00024050	Spreadsheet titled PI 2010 - Workload Resource Plan
PROD00024051	5/20/2010 PI Licensing Issue Team (LIT) Update
PROD00024052	PI Regulatory Issues - Alignment and Staffing (Draft)
PROD00024053	Business Case for Filling a Non-Bargaining Position form (5/14/2010)
PROD00024054	Document titled HELB OBNs
PROD00024055	Summary review of non-fleet programs and initiation of corrective actions
PROD00024056	4/23/2010 Integrated Planning Process manual
PROD00024057	4/29/2010 Integrated Planning Process manual
PROD00024058	Action Request Report re: Revising 5AWI 6.0.0 engineering process
PROD00024059	Action Request Report re: developing policy to assign project manager to O&M projects
PROD00024060	Document titled Assignment of Project Managers to O&M Projects
PROD00024061	3/1/2010 Letter from M. Wylie at Advent Co. to B. Slack re: proposal for AP-10-06 EDG duct analysis
PROD00024062	6/14/2010 Documentation Request for 95001 CC-HELB Supplemental Inspection
PROD00024063	Power Point presentation titled Human Performance for Engineers (1st Quarter 2009)
PROD00024064	Power Point presentation titled Component Cooling System (CC)

Document Number	Description
PROD00024065	6/4/2010 Xcel Energy Nuclear Department Fleet Procedure: CAP Action Request Process, Revision 26
PROD00024066	12/10/2009 Xcel Nuclear Department Fleet Procedure: Development of Conceptual Design Concept Studies, Revision 1
PROD00024067	3/10/2006 Prairie Island Nuclear Plant Root Cause Investigation Report: D6 High Crankcase Pressure Resulting in Unit 2 Shutdown, Event Date: 2/3/2006, Revision 0
PROD00024068	RCE Report: D5 Engineer 2 Elevated Crankcase Pressure During the scheduled 24 hour Test Run (Equipment Root Cause), Event Date: 10/22/2007, Revision 1
PROD00024069	RCE Report: Site Response to Issues with SI-9-5, Event Date: June 2006 - March 2008
PROD00024070	12/29/2005 Prairie Island Nuclear Plant Root Cause Investigation Report: Organizational Response to Operational Issues, Revision 1
PROD00024071	5/14/2010 Xcel Energy Business Case for Filling a Non-Bargain Position: Flooding and HELB Program Engineer
PROD00024072	2010 Capital Long Range Plan Spreadsheet
PROD00024073	6/2/2010 2010 OM Long Range Plan Spreadsheet
PROD00024074	Spreadsheet re OBNS and OBDs
PROD00024075	Charts for Unit 1 Revision 2.2 Model
PROD00024076	Charts for Unit 2 Revision 2.2 PRA Model
PROD00024077	6/8/2010 Xcel Energy Nuclear Department Fleet Procedure: Prioritization Guideline, Revision 1
PROD00024078	6/10/2010 Temporary Change Request: Project Review Group: Addresses control of studies and blanket items regardless of cost
PROD00024079	Engineering Training Materials related to the topic of Design and Licensing Basis
PROD00024080	Engineering Training Materials related to the topic of Design and Licensing Basis Index
PROD00024081	Photo Related to CC/HELB White Finding
PROD00024082	6/21/2010 Action Request Report: Screenhouse CL piping potential missile path
PROD00024083	CC-HELB extent of condition reviews and HELB corrective actions
PROD00024084	CC-HELB extent of condition reviews and HELB corrective actions
PROD00024085	CC-HELB extent of condition reviews and HELB corrective actions
PROD00024086	6/14/2010 Email from T. Roddey to S. Ford re items for flooding supporting corrective action for CCHELB
PROD00024087	6/15/2010 Email from Greg Hostetter of Advent Engineering to S. Ford re 95001 inspections battery room heat-up and turbine building heat-up analysis
PROD00024088	CC-HELB extent of condition reviews and HELB corrective actions
PROD00024089	CC-HELB extent of condition reviews and HELB corrective actions
PROD00024090	CC-HELB extent of condition reviews and HELB corrective actions
PROD00024091	Handwritten notes and questions re NRC discussions
PROD00024092	1/21/2009 Email from J. LeClair to S. Derleth re analysis required by DOT
PROD00024093	11/6/2008 Email from M. Davis to S. Derleth re NRC Inspection Manual 0609 page D-14
PROD00024094	Table 3 Initial Radiological Safety Risk Characterization
PROD00024095	10/05/2009 Email from S. Martin to R. Hite re review of Rad shipping event

Document Number	Description
PROD00024096	Attachment 6: Evaluation of Safety Culture
PROD00024097	8/26/2009 Email from P. Wildenborg to S. Derleth and C. Sweet re area for improvement items for rad shipping
PROD00024098	Procedure Consistency Matrix for discrete radioactive particles and packaging
PROD00024099	9/4/2009 NRC 95001 TDAFWP Inspection Post Inspection Critique
PROD00024100	12/3/2008 Email from K. Mews to PINGP engineers re summary of NRC 95001 inspection debriefings
PROD00024101	12/01/2008 Email from K. Mews to PINGP engineers re summary of NRC 95001 inspection - 2nd day
PROD00024102	12/2/2008 Email from K. Mews to PINGP engineers re Wednesday debriefing from NRC 95001 Inspection
PROD00024103	1/21/2009 Email from J. LeClair to R. Hite and other engineers re rad shipping procedures
PROD00024104	Draft procedures for evaluating packages and loading for shipping
PROD00024105	1/22/2009 Email from J. LeClair to S. Derleth and C. Sweet re directions re performing corrective actions 012209
PROD00024106	Corrective Actions to Prevent Recurrence (CAPRs) and Effectiveness Reviews - Cause to Action Matrix
PROD00024107	3/26/2006 PINGP Radiation Protection Procedures - D11.10 rev. 8: Mixed Low-Level Radioactive and Hazardous Waste (Mixed LLW) Shipment
PROD00024108	4/10/2006 PINGP Radiation Protection Procedures - D11.11 Rev. 10: Radioactive Materials Shipment-LSA/SCO/LTD Qty in Exclusive Use Vehicle - to a Licensed Processing Facility
PROD00024109	4/12/2006 PINGP Radiation Protection Procedure - D11.12 Rev. 2: Radioactive Materials Shipment-Old Steam Generator Upper and Lower Assemblies
PROD00024110	4/12/2006 PINGP Radiation Protection Procedure - D11.13 Rev. 1: Radioactive Materials Shipment - Certified Containerized Waste to Envirocare of Utah
PROD00024111	4/12/2006 PINGP Radiation Protection Procedure - D11.14 Rev. 1: Radioactive Material Shipment - LLRW to Bulk Waste Disposal Facility of Envirocare of Utah
PROD00024112	3/29/2006 PINGP Radiation Protection Procedure - D11.2 Rev. 23: Radioactive Materials Shipment Greater Than Type A Quantities in Exclusive Use Vehicle to Barnwell, SC Using Chem-Nuclear Cask and HIC Liner
PROD00024113	3/29/2006 PINGP Radiation Protection Procedure - D11.4 Rev. 23: Radioactive Materials Shipment Greater Than Type A Quantities in Exclusive Use Vehicle to Barnwell, SC Using RWE NUKEM Cask and HIC Liner
PROD00024114	3/29/2006 PINGP Radiation Protection Procedure - D11.6 Rev. 11: Radioactive Materials Shipment - N.O.S. - other than Irradiated Fuel - Not Exceeding HRCQ
PROD00024115	4/12/2006 PINGP Radiation Protection Procedure - D11.7 Rev. 15: Radioactive Materials Shipment - LSA/SCO/LTD QTY to a Licensed Facility
PROD00024116	1/12/2006 PINGP Radiation Protection Procedure - D11.8 Rev. 13: Radioactive Materials Shipment Irradiated Components - Greater Than Type A - In Exclusive Use Vehicle to Barnwell, SC Using Chem-Nuclear CNS 3-55 Cask & Liner
PROD00024117	3/29/2006 PINGP Radiation Protection Procedure - D11.9 Rev. 13: Radioactive Materials Shipment - LSA/SCO - Quantities in Exclusive Use Vehicle to Barnwell, SC
PROD00024118	6/19/2007 PINGP Radiation Protection Procedure D11 Rev. 16: Radioactive Material Shipment
PROD00024119	1/22/2009 Email from J. LeClair to S. Derleth re Questions about PINGP Radiation Protection Procedure Manual Section D

Document Number	Description
PROD00024120	Draft RCE 01157726 - Radioactive Material Shipment Exceeded DOT Limits
PROD00024121	3/19/2009 Email from R. Hite to S. Nelson re instruments for determining potential tissue exposure to radiation
PROD00024122	12/04/2009 Email from K. Mews to PINGP engineers re notes for the transportation 95001 inspection
PROD00024123	11/7/2008 Email from C. Nash to S. Derleth re truck driver's stops and activities during fuel sipping equipment transport
PROD00024124	10/7/2009 Email from S. Martin to S. Derleth re Forms for past low risk shipments
PROD00024125	9/15/2009 Email from C. Sweet to P. Wildenborg re revisions to 95001 FSA area for improvement items for transportation RCE
PROD00024126	10/21/2009 Email from C. Sweet to S. Derleth re Review of Action Items from challenge board for the NRC Transportation 95001 Inspection
PROD00024127	10/21/2009 Attachment 2: Challenge Board Inspection Issue Tracking
PROD00024128	Draft Letter to NRC re Response to Questions from "Meeting Summary for Regulatory Conference with Northern States Power - Minnesota" held on March 17, 2009 (EA-08-349)
PROD00024129	1/14/2009 Email from J. LeClair to C. Sweet and S. Derleth re ways of defining discrete particles
PROD00024130	01/14/2009 Email from J. LeClair to C. Sweet and S. Derleth re defining discrete particle
PROD00024131	CAP- AR Template
PROD00024132	12/4/2009 Email from R. Hite to PINGP radioactive materials shipping program personnel re final summary for Transportation 95001 Inspection
PROD00024133	3/5/2009 Email from S. Nelson to S. Derleth re instruments used for measuring emissions from radioactive materials
PROD00024134	5/11/2009 NRC News: NRC Finds Shipment of Radioactive Materials Problem at Prairie Island Nuclear Station to Be of Low to Moderate Safety Significance
PROD00024135	5/6/2009 NRC News: NRC to Discuss 2008 Performance Assessment for Prairie Island Nuclear Power Plant
PROD00024136	3/10/2009 Email from F. Englett to S. Derleth and C. Sweet re NRC News release
PROD00024137	3/9/2009 NRC News: NRC to Meet with Xcel Energy for Regulatory Conference on Potential Yellow Finding at Prairie Island Nuclear Power Plant
PROD00024138	2/27/2009 Email from R. Hite to Rad Shipping personnel re P. Wildenborg's particle dose evaluation
PROD00024139	Fuel Sipper Lid Hot Particle Extremity and Whole Body Dose Evaluation
PROD00024140	9/28/2009 Email from R. Hite to S. Derleth re restored information for High-risk procedure
PROD00024141	2/13/2009 Email from K. Huxford to Rad Shipment personnel re states shipment traveled through
PROD00024142	2/13/2009 Email from S. Nelson to K. Huxford re radiation exposure due to shipment
PROD00024143	2/13/2009 Email from S. Nelson to R. Hite, S. Derleth and K. Huxford re notification of potential radiation exposure from shipment
PROD00024144	1/15/2010 Email from M. Davis to Rad shipping personnel re supplemental 95001 Inspection report
PROD00024145	12/8/2008 Westinghouse - Qualification History Report - By Qualification: Hazmat Transportation Safety Plan
PROD00024146	RP Contractor RPT 1 through 14 Qualification Matrix
PROD00024147	Radiation Protection Department Qualification Matrix Rad Con Program
PROD00024148	Nuclear Oversight Action Request Template re: shipment of radioactive materials
PROD00024149	2/27/2009 email from R. Hite to S. Derleth re: Shipping Training and Hazmat training

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PROD00024150	11/18/2009 PINGP Radiation Protection Survey Record
PROD00024151	11/25/2008 email from C. Sweet to S. Darleth re: rad shipping
PROD00024152	Document re: radioactive materials shipment
PROD00024153	2/14/2008 PINGP H Procedure re: RPIP Writer's Manual re: Radiation Protection Implementing Procedures
PROD00024154	12/19/2008 email from J. LeClair to S. Derleth and C. Sweet re: Information requests for the rad shipping assessment
PROD00024155	12/9/2009 email from K. Mews to R. Hite and other Xcel employees re: Lessons learned from 95001 Inspection
PROD00024156	9/3/2009 email from L. Kuehl to *DL-PI-EVERYONE re: Message from Mark Schimmel: Update on NRC findings/inspections re: Human Performance as it relates to the auxiliary feedwater pump
PROD00024157	12/18/2008 email from M. Kent to P. Wildenborg and other Xcel employees re: NRC Follow up questions to fuel sipper work and shipment of radioactive material
PROD00024158	5/7/2009 email from K. Huxford to *DL-PI-EVERYONE re: NRC issues final significance determination to Prairie Island
PROD00024159	11/20/2008 Quarantined Controlled Documents
PROD00024160	2/13/2009 email from Kelli Huxford to Scott Nelson, Robert Hite, Steven Derleth re: Preliminary Yellow NRC Violation - Radioactive Shipping
PROD00024161	1/20/2009 email from Jeffry LeClair to Robert Hite, Scott Nelson re: shipping procedure
PROD00024162	1/14/2009 email from J. LeClair to R. Hite, S. Nelson, S. Desrleth, and others at Xcel re: shipping procedure change assignment
PROD00024163	CAP - AR Template , Survey of empty containers coming to Prairie Island
PROD00024164	CAP - AR Template, Shipping Procedural Clarification
PROD00024165	11/12/2008 email from Jeffry LeClair to C. Sweet, S. Derleth re: questions about radioactive shipping event
PROD00024166	10/27/2009 email from Andrew Pullam to Scott Nelson re: Radioactive Shipping Documentation Review
PROD00024167	RCE Report - Radioactive Material Shipment Exceeded DOT Limits Event Date: October 30, 2008 (DRAFT)
PROD00024168	RCE Report - Radioactive Material Shipment Exceeded DOT Limits Event Date: October 30, 2008 (Revision 1)
PROD00024169	RCE Report - Radioactive Material Shipment Exceeded DOT Limits Event Date: October 30, 2008
PROD00024170	Radioactive Shipment event analysis
PROD00024171	12/9/2008 email from C. Sweet to J. LeClair, R. Hite re: Root Cause Evaluation Manual for Radioactive Material Shipping Program
PROD00024172	Evaluation of the Radioactive Materials Shipping Program
PROD00024173	10/5/2009 email from Christopher Pecore to S. Derleth re: Assessment for radioactive shipping inspection
PROD00024174	10/7/2009 email from S. Martin to S. Derleth re: radioactive shipment program questions
PROD00024175	1/7/2009 email from C. Young to S. Derleth re: radioactive shipment program management
PROD00024176	1/22/2009 email from J. LeClair to M. Davis re: CAP - incorrect radiation meter recorded on procedure
PROD00024177	10/7/2009 email from C. Sweet to S. Martin, R. Hite re: radioactive shipping terminology
PROD00024178	12/10/2008 email from R. Hite to M. Davis re: ALARA planning and the radioactive shipment program
PROD00024179	Worst Case with the Total Shipment Activity Distributed Among the Entire Internal Volume of the Shipping Box
PROD00024180	Regulation and monitoring of radioactive shipments - NRC and DOT
PROD00024181	11/7/2008 email from R. Hite to S. Derleth , C. Nash re: transport conditions during radioactive shipment event

Document Number	Description
PROD00024182	11/7/2008 email from C. Nash to R. Hite Cc S. Derleth re: conditions of transport during radioactive shipment event
PROD00024183	10/13/2009 email from S. Martin to R. Hite, S. Nelson re: analysis radioactive shipment procedure
PROD00024184	10/12/2009 email from C. Sweet to S. Martin, R. Hite, S. Nelson re: discussion about high risk shipment
PROD00024185	11/1/2008 email from C. Sweet to S. Nelson, J. LeClair, R. Hite re: Information Request for Shipping issue
PROD00024186	10/6/2009 email from E. Boyer to C. Sweet, R. Hite re: RCE process radioactive shipment event
PROD00024187	10/6/2009 email from C. Sweet to E. Boyer, R. Hite re: Monitoring of Operational Experience related to Rad Material Shipping
PROD00024188	Job Risk Assessment
PROD00024189	12/18/2008 email from M. Kent to P. Wildenborg, S. Derleth, C. Sweet re: NRC follow-up questions radioactive fuel shipment event
PROD00024190	2/5/2009 email from R. Hite to S. Northard re: resumption of shipments
PROD00024191	2/13/2009 email from S. Nelson to S. Derleth re: transport route of radioactive shipment
PROD00024192	4/21/2009 email from C. Sweet to R. Hite, S. Martin re: Proposed CAP - receipt of radioactive material
PROD00024193	4/16/2009 email from R. Hite to S. Martin, S. Northard, S. Derleth re: root cause evaluation - radioactive shipment event
PROD00024194	4/16/2009 email from R. Hite to S. Martin, S. Northard, S. Derleth re: survey requirements for radioactive material
PROD00024195	4/21/2009 email from C. Sweet to S. Martin Cc S. Derleth re: qualifications for personnel packaging radioactive material
PROD00024196	Radiation survey procedure
PROD00024197	Radioactive shipping procedure
PROD00024198	11/14/2008 email from J. LeClair to S. Derleth re: survey record for radioactive shipment event
PROD00024199	12/16/2008 email from J. Muth to R. Hite re: sources for Prairie Island radioactive material shipping procedure
PROD00024200	8/28/2008 NMC Department Procedure TITLE: Internal Assessment: Topic Selection, Scheduling, and Quarterly Reporting (Revision 3)
PROD00024201	4/4/2008 NMC Nuclear Oversight - The Assessment Handbook (Revision 19)
PROD00024202	11/17/2008 email from C. Sweet to J. LeClair re: Root Cause 1157726 draft re: shipment of radioactive materials
PROD00024203	3/3/2009 email from M. Dzielski to S. Derleth re: root cause at Prairie Island re: shipment of radioactive material
PROD00024204	12/29/2008 email from M. Dzielski to J. LeClair re: root cause at Prairie Island re: shipping issue
PROD00024205	Document re: Radioactive Material Shipment Exceeds DOT Limits (Prairie Island)
PROD00024206	11/7/2008 email from J. LeClair to C. Sweet re: site clock red sheet re: shipment of radioactive materials
PROD00024207	11/7/2008 email from C. Sweet to S. Derleth re: site clock red sheet re: closed transport
PROD00024208	12/1/2008 email from C. Sweet to S. Derleth re: survey for collection of data for shipment of materials
PROD00024209	1/27/2009 email from J. LeClaire to S. Derleth re: changes to policy to ensure that rad shipping violations would not occur
PROD00024210	Document re: steps for the shipment of radioactive materials
PROD00024211	3/4/2009 Email from B. James to Rad shipping personnel re equipment for measuring radiation emissions
PROD00024212	10/31/2008 Email from W. Vogel to PA Dept of Environmental Protection and Southern Pines Trucking re radioactive materials shipment exceeding DOT levels
PROD00024213	12/16/2008 Email from J. LeClair to S. Derlith and C. England re information to provide to WMG

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PROD00024214	11/14/2008 Email from J. LeClair to PINGP RCE Team re draft of root cause evaluation
PROD00024215	Draft RCE Report: Radioactive Material Shipment Exceeded DOT Limits Event Date: October 30, 2008
PROD00024216	12/29/2008 Email from J. LeClair to M. Zielski at Spines Trucking re GPS or satellite tracking of shipment
PROD00024217	Job Risk Assessment Table
PROD00024218	1/12/2009 Email from J. LeClair to S. Derleth re RPIP verbiage
PROD00024219	2/27/2009 Email from S. nelson to S. Huneycutt & S. Derleth re Shipping procedures
PROD00024220	10/7/2009 Email from S. Martin to S. Derleth with others cc'd re Shipping resources
PROD00024221	Evaluation procedures for radwaste shipping
PROD00024222	1/22/2009 Email from J. LeClair to R. Hite with others cc'd re trouble with RCE
PROD00024223	2/12/2010 Email from C. Sweet to J. Anderson & others re Transportation of gun sights
PROD00024224	1/2004 USDOT, Pipeline & Hazardous Materials Safety Administration, Guide for Preparing Hazardous Materials Incidents Reports
PROD00024225	Chart of boxes re rad shipping container excess
PROD00024226	6/17/2010 photos re: HELB extent of condition walkdown by B. Slack and D. Cherlopalle
PROD00024227	Transitional File Drawing - Component Cooling System
PROD00024228	Control Room Transitional File NF-39236 rev 75
PROD00024229	Control Room Transitional File NF-39245-2
PROD00024230	Drawing - HELB Routing - Main Steam Auxiliary Building 755'
PROD00024231	Drawing - HELB Routing - Feedwater Turbine Building 715'
PROD00024232	Drawing - HELB Routing - Feedwater Turbine Building 695'
PROD00024233	Drawing - HELB Routing - CVCS Letdown Auxiliary Building 715'
PROD00024234	Drawing - HELB Routing - Steam Generator Blowdown Auxiliary Building 715'
PROD00024235	Drawing - HELB Routing - Steam Supply to AFWPT Auxiliary Building 735'
PROD00024236	Drawing - HELB Routing - Steam Supply to AFWPT Auxiliary Building 715'
PROD00024237	Drawing - HELB Routing - Steam Supply to AFWPT Auxiliary Building 695'
PROD00024238	Drawing - HELB Routing - Steam Supply to AFWPT Turbine Building 695'
PROD00024239	Drawing - HELB Routing - Condensate Turbine Building 715'
PROD00024240	Drawing - HELB Routing - Condensate Turbine Building 695'
PROD00024241	Drawing - HELB Routing - Main Steam Auxiliary Building 735'
PROD00024242	Drawing - HELB Routing - Bleed Steam Turbine Building 715'
PROD00024243	Drawing - HELB Routing - Feedwater Heating & MSR Drains Turbine Building 735'
PROD00024244	Drawing - HELB Routing - Feedwater Heater & MSR Drains Turbine Building 715'
PROD00024245	Drawing - HELB Routing - Feedwater Heater & MSR Drains Turbine Building 695'
PROD00024246	Drawing - HELB Routing - Heater Drain Pump Discharge Turbine Building 715'
PROD00024247	Drawing - HELB Routing - Heater Drain Pump Discharge Turbine Building 695'
PROD00024248	Drawing - HELB Routing - Heater Drain Pump Discharge Turbine Building 679'
PROD00024249	Drawing - HELB Routing - Feedwater Turbine Building 679'

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PROD00024250	Drawing - HELB Routing - Feedwater Turbine Building 735'
PROD00024251	Drawing - HELB Routing - Main Steam Auxiliary Building 715'
PROD00024252	Drawing - HELB Routing - Main Steam Turbine Building 735'
PROD00024253	Drawing - HELB Routing - Main Steam Turbine Building 715'
PROD00024254	Drawing - HELB Routing - Main Steam Turbine Building 695'
PROD00024255	Drawing - HELB Routing - Main Steam Turbine Building 679'
PROD00024256	Drawing - HELB Routing - Feedwater Auxiliary Building 735'
PROD00024257	Drawing - HELB Routing - Feedwater Turbine Building 735'
PROD00024258	CC/HELB extent of conditions reviews and HELB corrective actions
PROD00024259	CC/HELB extent of conditions reviews and HELB corrective actions
PROD00024260	Table of Pipe Specifications
PROD00024261	Handwritten notes re: pipe inspection walkdowns
PROD00024262	5/6/2010 email from Chris Koehler to unknown group re: an upcoming inspection on CAPs and HELB issues
PROD00024263	6/18/2010 email from Tom Roddey to Dennis Koehl and others re: upcoming NRC inspections of HELB issues
PROD00024264	6/21/2010 draft of memo re: NRC inspections identifying HELB issues
PROD00024265	6/1/2010 email from Tom Roddey to Brian Slack re: NRC inspection and HELB issues
PROD00024266	6/14/2010 PING power point re: the component cooling system and HELB design performance deficiency
PROD00024267	6/14/2010 PING power point re: the component cooling system and HELB design performance deficiency
PROD00024268	6/10/2010 email from Jon Anderson to Sam DiPasquale re: root cause of CC/HELB events
PROD00024269	undated memo/report re: mitigation and root cause of CC/HELB events
PROD00024270	6/1/2010 PING main report re: turbine building and HELB internal flooding
PROD00024271	4/28/2010 email from Vince Kelly to Brian Slack re: the action resource plan and root cause of CC/HELB events
PROD00024272	PING CC and HELB inspection preparation and staffing plan
PROD00024273	memo/report re: HELB and CC flooding and failures and corrective action plans
PROD00024274	6/21/2010 email from Mark Huting to David Kettering and others re: CC/HELB flooding report due date
PROD00024275	6/10/2010 US NRC Status on resolution of generic safety issue (GSI) 191 pressurized water reactor sump performance
PROD00024276	6/14/2010 PINGP Component Cooling Water System high Energy Line Break power point presentation
PROD00024277	Nuclear Project Authorization regarding HELB technical basis and regulatory correspondence
PROD00024278	Nuclear Project Authorization HELB Flooding Program Reconstitution Project
PROD00024279	6/9/2010 Nuclear Project Authorization HELB flooding program reconstitution project to resolve component cooling piping adjacent to HELB
PROD00024280	CC-HELB extent of conditions reviews and HELB corrective actions
PROD00024281	6/4/2010 email from D. Hartinger to R. Ciamarra and others at Xcel regarding functioning of feedwater heater etc.
PROD00024282	6/21/2010 Email from M. Huting to B. Slack and others re: Potter Slack Resource Utilization Schedule for W/E 6/25/2010
PROD00024283	Analysis of HELB pipe whip interactions

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PROD00024284	6/21/2010 Email from R. Rohrer to B. Slack and others at Xcel, Ray Dremel, Russ Sharpe and Char Greene at Maracor and David Moore at Comcast re Turbine Building flooding report for SDP
PROD00024285	Effective 6/2010 re PINGP Turbine Building HELB/Internal flooding SDP accident sequence analysis prepared by T. Reichardt
PROD00024286	CC-HELB 95001 Inspection Lessons Learned
PROD00024287	6/21/2010 Review of Potential HELB Interaction Concern During NRC 95001 Inspection
PROD00024288	6/4/2010 Letter from M. Schimmel to NRC re: request for a regulatory conference
PROD00024289	6/22/2010 Email from S. DiPasquale to D. Kettering and others re: CC-HELB 95001, Corrective Action Response for Question 29 (Screenhouse potential tornado missile).
PROD00024290	6/4/2010 Email from S. Larson to T. Roddy and others re: HELB historical basis document
PROD00024291	7/14/2010 Letter from M. Schimmel to NRC re: supplemental information regarding NRC Inspection Reports 05000282/2010010; 05000306/2010010 (EA-10-070)
PROD00024292	6/4/2010 Email from K. Kriesel to B. Slack re: definition of pipe class I
PROD00024293	4/7/2010 Licensing Issue Team (LIT) Update
PROD00024294	6/5/2010 Email from C. Agan to B. Slack re: specific exclusion for piping that does not meet high energy status greater than 2%
PROD00024295	6/10/2010 Email from J. Anderson to S. DiPasquale and others re: Action Items for the CC-HELB Challenge Board
PROD00024296	6/10/2010 Email from K. Ryan to S. DiPasquale and others re: Action Items for the CC-HELB Challenge Board
PROD00024297	6/11/2010 Email from J. Anderson to D. Vincent re: Sciencetech licensing basis search
PROD00024298	6/11/2010 Email from D. Vincent to J. Anderson re: Sciencetech licensing basis search
PROD00024299	6/11/2010 Email from D. Vincent to L. Rippy and others re: possible security issues with drawings to be put in the docketed submittal to NRC
PROD00024300	6/10/2010 Email from S. Ford to B. Slack re: extent of condition review
PROD00024301	6/4/2010 Email from R. Ciamarra to R. Rohrer and D. Hartinger re: Heater Drain Valves
PROD00024302	6/4/2010 Email from M. Goggin to S. Larson and others re: HELB flooding program reconstitution project
PROD00024303	6/4/2010 Email from A. Smith to B. Slack re: HELB historical basis document
PROD00024304	6/4/2010 Email from S. Larson to B. Slack and A. Smith re: HELB historical basis document
PROD00024305	6/4/2010 Email from S. Larson to B. Slack and A. Smith re: HELB historical basis document
PROD00024306	Pine Island Flooding SDP Updated Action Item List
PROD00024307	6/3/2010 email from S. Larson to M. Goggin re: Urgent need for HELB Program Reconstitution NPA
PROD00024308	6/21/2010 Email from T. Roddey to D. Kettering and others re: updated response to 95001 HELB evaluation concern
PROD00024309	6/3/2010 Email from S. Larson to M. Goggin re: Urgent need for HELB Program Reconstitution NPA
PROD00024310	10/19/2009 Summary of Recent Site Refueling Cavity Leakage Activities
PROD00024311	6/9/2009 email from S. Skoyen to T. Downing re: Refueling Cavity Leakage - Draft for quarterly inspection report
PROD00024312	6/10/2010 email from P. Zurawski to S. Skoyen and T. Downing re: revision of Refueling Cavity Leakage - Draft
PROD00024313	6/10/2010 email from P. Zurawski to T. Downing and S. Skoyen re: language to use regarding Refueling Cavity Leakage - Draft

Document Number	Description
PROD00024314	6/9/2010 email from P. Zurawski to S. Skoyen re: language to use in Refueling Cavity Leakage - Draft
PROD00024315	6/9/2010 email from P. Zurawski to T. Downing and S. Skoyen re: language to use in Refueling Cavity Leakage - Draft
PROD00024316	6/9/2010 email from T. Downing to P. Zurawski and S. Skoyen re: language to use in Refueling Cavity Leakage - Draft
PROD00024317	6/9/2010 email from T. Downing to S. Skoyen re: language to use in Refueling Cavity Leakage - Draft
PROD00024318	6/10/2010 email from S. Skoyen to P. Zurawski re: language to use in Refueling Cavity Leakage - Draft
PROD00024319	6/9/2010 email from S. Skoyen to P. Zurawski re: language to use in Refueling Cavity Leakage - Draft
PROD00024320	6/10/2010 email from S. Skoyen to P. Zurawski and T. Downing re: language to use in Refueling Cavity Leakage - Draft
PROD00024321	6/10/2010 email from S. Skoyen to P. Zurawski and T. Downing re: language to use in Refueling Cavity Leakage - Draft
PROD00024322	6/9/2010 email from P. Zurawski to S. Skoyen re: language to use in Refueling Cavity Leakage - Draft
PROD00024323	6/10/2010 Nuclear Oversight 1st Quarter of 2010 Assessment Report for Prairie Island
PROD00024324	1R26 and 2R26 Modification Summary Support
PROD00024325	6/10/2009 1R26/2R26 Outage Management Meeting Materials
PROD00024326	6/10/2009 1R26/2R26 Outage Management Meeting Materials
PROD00024327	1R26 Outlook Challenge Meetings
PROD00024328	2009 Project Budgets Spreadsheet
PROD00024329	2009 O&M long range plan spreadsheet
PROD00024330	3/24/2010 Outage Management Meeting Materials
PROD00024331	3/31/2010 Outage Management Meeting Materials
PROD00024332	4/7/2010 Outage Management Meeting Materials
PROD00024333	2/25/2008 Prairie Island 1R25 OCC Shift Update
PROD00024334	2/26/2008 Prairie Island 1R25 OCC Shift Update
PROD00024335	2/27/2008 Prairie Island 1R25 OCC Shift Update
PROD00024336	9/16/2009 Prairie Island 1R26 OCC Shift Update
PROD00024337	9/17/2009 Prairie Island 1R26 OCC Shift Update
PROD00024338	9/18/2009 Prairie Island 1R26 OCC Shift Update
PROD00024339	9/19/2009 Prairie Island 1R26 OCC Shift Update
PROD00024340	9/20/2009 Prairie Island 1R26 OCC Shift Update
PROD00024341	9/21/2009 Prairie Island 1R26 OCC Shift Update
PROD00024342	9/22/2009 Prairie Island 1R26 OCC Shift Update
PROD00024343	9/22/2009 Prairie Island 1R26 OCC Shift Update
PROD00024344	9/24/2009 Prairie Island 1R26 OCC Shift Update
PROD00024345	9/25/2009 Prairie Island 1R26 OCC Shift Update
PROD00024346	9/26/2009 Prairie Island 1R26 OCC Shift Update
PROD00024347	9/27/2009 Prairie Island 1R26 OCC Shift Update
PROD00024348	9/28/2009 Prairie Island 1R26 OCC Shift Update
PROD00024349	9/29/2009 Prairie Island 1R26 OCC Shift Update
PROD00024350	9/30/2009 Prairie Island 1R26 OCC Shift Update

Document Number	Description
PROD00024351	10/1/2009 Prairie Island 1R26 OCC Shift Update
PROD00024352	10/2/2009 Prairie Island 1R26 OCC Shift Update
PROD00024353	10/3/2009 Prairie Island 1R26 OCC Shift Update
PROD00024354	10/4/2009 Prairie Island 1R26 OCC Shift Update
PROD00024355	10/5/2009 Prairie Island 1R26 OCC Shift Update
PROD00024356	10/6/2009 Prairie Island 1R26 OCC Shift Update
PROD00024357	10/7/2009 Prairie Island 1R26 OCC Shift Update
PROD00024358	10/8/2009 Prairie Island 1R26 OCC Shift Update
PROD00024359	10/9/2009 Prairie Island 1R26 OCC Shift Update
PROD00024360	10/10/2009 Prairie Island 1R26 OCC Shift Update
PROD00024361	10/11/2009 Prairie Island 1R26 OCC Shift Update
PROD00024362	10/12/2009 Prairie Island 1R26 OCC Shift Update
PROD00024363	10/13/2009 Prairie Island 1R26 OCC Shift Update
PROD00024364	10/14/2009 Prairie Island 1R26 OCC Shift Update
PROD00024365	10/15/2009 Prairie Island 1R26 OCC Shift Update
PROD00024366	10/16/2009 Prairie Island 1R26 OCC Shift Update
PROD00024367	10/17/2009 Prairie Island 1R26 OCC Shift Update
PROD00024368	10/18/2009 Prairie Island 1R26 OCC Shift Update
PROD00024369	10/19/2009 Prairie Island 1R26 OCC Shift Update
PROD00024370	10/20/2009 Prairie Island 1R26 OCC Shift Update
PROD00024371	10/21/2009 Prairie Island 1R26 OCC Shift Update
PROD00024372	10/22/2009 Prairie Island 1R26 OCC Shift Update
PROD00024373	10/23/2009 Prairie Island 1R26 OCC Shift Update
PROD00024374	10/24/2009 Prairie Island 1R26 OCC Shift Update
PROD00024375	10/25/2009 Prairie Island 1R26 OCC Shift Update
PROD00024376	10/26/2009 Prairie Island 1R26 OCC Shift Update
PROD00024377	10/27/2009 Prairie Island 1R26 OCC Shift Update
PROD00024378	10/28/2009 Prairie Island 1R26 OCC Shift Update
PROD00024379	10/29/2009 Prairie Island 1R26 OCC Shift Update
PROD00024380	10/30/2009 Prairie Island 1R26 OCC Shift Update
PROD00024381	10/31/2009 Prairie Island 1R26 OCC Shift Update
PROD00024382	11/1/2009 Prairie Island 1R26 OCC Shift Update
PROD00024383	11/2/2009 Prairie Island 1R26 OCC Shift Update
PROD00024384	11/3/2009 Prairie Island 1R26 OCC Shift Update
PROD00024385	11/4/2009 Prairie Island 1R26 OCC Shift Update
PROD00024386	11/5/2009 Prairie Island 1R26 OCC Shift Update
PROD00024387	11/6/2009 Prairie Island 1R26 OCC Shift Update

Document Number	Description
PROD00024388	1/14/2009 1R26/2R26 Outage Management Meeting Materials
PROD00024389	1/20/2010 Outage Management Meeting Materials
PROD00024390	1/27/2010 Outage Management Meeting Materials
PROD00024391	1/28/2009 1R26/2R26 Outage Management Meeting Materials
PROD00024392	1/7/2009 1R26/2R26 Outage Management Meeting Materials
PROD00024393	2/20/2008 Prairie Island 1R25 OCC Shift Update
PROD00024394	2/25/2008 Prairie Island 1R25 OCC Shift Update
PROD00024395	2/26/2008 Prairie Island 1R25 OCC Shift Update
PROD00024396	2/27/2008 Prairie Island 1R25 OCC Shift Update
PROD00024397	4/17/2010 Prairie Island 2R26 OCC Shift Update
PROD00024398	9/16/2009 Prairie Island 1R26 OCC Shift Update
PROD00024399	9/17/2009 Prairie Island 1R26 OCC Shift Update
PROD00024400	9/18/2009 Prairie Island 1R26 OCC Shift Update
PROD00024401	9/20/2009 Prairie Island 1R26 OCC Shift Update
PROD00024402	9/20/2009 Prairie Island 1R26 OCC Shift Update
PROD00024403	9/21/2009 Prairie Island 1R26 OCC Shift Update
PROD00024404	9/22/2009 Prairie Island 1R26 OCC Shift Update
PROD00024405	9/23/2009 Prairie Island 1R26 OCC Shift Update
PROD00024406	9/24/2009 Prairie Island 1R26 OCC Shift Update
PROD00024407	9/25/2009 Prairie Island 1R26 OCC Shift Update
PROD00024408	9/27/2009 Prairie Island 1R26 OCC Shift Update
PROD00024409	9/27/2009 Prairie Island 1R26 OCC Shift Update
PROD00024410	9/28/2009 Prairie Island 1R26 OCC Shift Update
PROD00024411	9/29/2009 Prairie Island 1R26 OCC Shift Update
PROD00024412	9/30/2009 Prairie Island 1R26 OCC Shift Update
PROD00024413	10/1/2009 Prairie Island 1R26 OCC Shift Update
PROD00024414	10/2/2009 Prairie Island 1R26 OCC Shift Update
PROD00024415	10/3/2009 Prairie Island 1R26 OCC Shift Update
PROD00024416	10/4/2009 Prairie Island 1R26 OCC Shift Update
PROD00024417	10/5/2009 Prairie Island 1R26 OCC Shift Update
PROD00024418	10/6/2009 Prairie Island 1R26 OCC Shift Update
PROD00024419	10/7/2009 Prairie Island 1R26 OCC Shift Update
PROD00024420	10/8/2009 Prairie Island 1R26 OCC Shift Update
PROD00024421	10/9/2009 Prairie Island 1R26 OCC Shift Update
PROD00024422	10/10/2009 Prairie Island 1R26 OCC Shift Update
PROD00024423	10/11/2009 Prairie Island 1R26 OCC Shift Update
PROD00024424	10/12/2009 Prairie Island 1R26 OCC Shift Update

Document Number	Description
PROD00024425	10/13/2009 Prairie Island 1R26 OCC Shift Update
PROD00024426	10/14/2009 Prairie Island 1R26 OCC Shift Update
PROD00024427	10/15/2009 Prairie Island 1R26 OCC Shift Update
PROD00024428	10/16/2009 Prairie Island 1R26 OCC Shift Update
PROD00024429	10/17/2009 Prairie Island 1R26 OCC Shift Update
PROD00024430	10/18/2009 Prairie Island 1R26 OCC Shift Update
PROD00024431	10/19/2009 Prairie Island 1R26 OCC Shift Update
PROD00024432	10/20/2009 Prairie Island 1R26 OCC Shift Update
PROD00024433	10/21/2009 Prairie Island 1R26 OCC Shift Update
PROD00024434	10/22/2009 Prairie Island 1R26 OCC Shift Update
PROD00024435	10/24/2009 Prairie Island 1R26 OCC Shift Update
PROD00024436	10/25/2009 Prairie Island 1R26 OCC Shift Update
PROD00024437	10/25/2009 Prairie Island 1R26 OCC Shift Update
PROD00024438	10/26/2009 Prairie Island 1R26 OCC Shift Update
PROD00024439	10/27/2009 Prairie Island 1R26 OCC Shift Update
PROD00024440	10/28/2009 Prairie Island 1R26 OCC Shift Update
PROD00024441	10/29/2009 Prairie Island 1R26 OCC Shift Update
PROD00024442	10/30/2009 Prairie Island 1R26 OCC Shift Update
PROD00024443	10/31/2009 Prairie Island 1R26 OCC Shift Update
PROD00024444	11/1/2009 Prairie Island 1R26 OCC Shift Update
PROD00024445	11/2/2009 Prairie Island 1R26 OCC Shift Update
PROD00024446	11/3/2009 Prairie Island 1R26 OCC Shift Update
PROD00024447	11/4/2009 Prairie Island 1R26 OCC Shift Update
PROD00024448	11/5/2009 Prairie Island 1R26 OCC Shift Update
PROD00024449	9/9/2004 Prairie Island 1R23 OCC Issues Log Spreadsheet
PROD00024450	2/21/2008 1R25 News/outage newsletter
PROD00024451	2/22/2008 1R25 News/outage newsletter
PROD00024452	Challenges List w/ action descriptions, owners, and comments
PROD00024453	1/11/2010 1R26 Post Outage Critique Meeting Materials
PROD00024454	12/15/2010 1R26 Post Outage Critique Meeting Materials
PROD00024455	12/15/2009 1R26 Post Outage Critique Meeting Materials
PROD00024456	7/10/2009 Prairie Island 1R26 Outage Readiness Review Power Point
PROD00024457	Complete Readiness Challenge Process Spreadsheet
PROD00024458	1R26 Post Outage Critique Meeting Materials
PROD00024459	1R26 HIT project Complex Work Coordinator Team Membership Chart
PROD00024460	1R26 HIT Project Complex Work Coordinator Team Membership Chart
PROD00024461	11/6/2009 Prairie Island 1R26 OCC Shift Update

Document Number	Description
PROD00024462	1R27 Modifications List
PROD00024463	1R27 Modifications List
PROD00024464	Production Planning 2010 Excellence Plan
PROD00024465	Prairie Island Base Outage Cost
PROD00024466	2/10/2010 Outage Management Meeting Materials
PROD00024467	2/11/2009 Outage Management Meeting Materials
PROD00024468	2/17/2010 Outage Management Meeting Materials
PROD00024469	2/18/2009 1R26/2R26 Outage Management Meeting Materials
PROD00024470	2/24/2010 Outage Management Meeting Materials
PROD00024471	2/3/2010 Outage Management Meeting Materials
PROD00024472	2/4/2009 1R26/2R26 Outage Management Meeting Materials
PROD00024473	2/28/2008 2R25 News/outage newsletter
PROD00024474	2R26 Contingencies Spreadsheet
PROD00024475	4/27/2010 2R26 Dose Reduction
PROD00024476	2R26 Modification List
PROD00024477	4/13/2010 2R26 outage employee schedule
PROD00024478	2R26 outage employee schedule
PROD00024479	11/1/2009 email from D. Raebel to others at Xcel re 2R26 contingency planning
PROD00024480	2R26 Outage Team Membership List
PROD00024481	2R26 Outage Team Membership List
PROD00024482	2R26 Outage Team Membership List
PROD00024483	3/10/2010 Outage Management Meeting Materials
PROD00024484	3/1/2010 Outage Management Meeting Materials
PROD00024485	3/17/2010 Outage Management Meeting Materials
PROD00024486	3/18/2009 Outage Management Meeting Materials
PROD00024487	3/4/2009 Outage Management Meeting Materials
PROD00024488	4/1/2009 1R26/2R26 Outage Management Meeting Materials
PROD00024489	4/15/2009 1R26/2R26 Outage Management Meeting Materials
PROD00024490	4/29/2009 1R26/2R26 Outage Management Meeting Materials
PROD00024491	5/13/2009 1R26/2R26 Outage Management Meeting Materials
PROD00024492	6/10/2009 1R26/2R26 Outage Management Meeting Materials
PROD00024493	6/24/2009 1R26/2R26 Outage Management Meeting Materials
PROD00024494	6/3/2009 1R26/2R26 Outage Management Meeting Materials
PROD00024495	7/15/2009 1R26/2R26 Outage Management Meeting Materials
PROD00024496	7/15/2009 1R26/2R26 Outage Management Meeting Materials
PROD00024497	7/15/2009 1R26/2R26 Outage Management Meeting Materials
PROD00024498	7/21/2009 1R26/2R26 Outage Management Meeting Materials

Document Number	Description
PROD00024499	7/28/2003 RV Bottom Head Inspection HIT Team Meeting Minutes
PROD00024500	7/29/2009 1R26/2R26 Outage Management Meeting Materials
PROD00024501	7/7/2009 1R26/2R26 Outage Management Meeting Materials
PROD00024502	8/11/2009 1R26/2R26 Outage Management Meeting Materials
PROD00024503	8/26/2009 1R26/2R26 Outage Management Meeting Materials
PROD00024504	8/5/2009 1R26/2R26 Outage Management Meeting Materials
PROD00024505	9/2/2009 1R26/2R26 Outage Management Meeting Materials
PROD00024506	Activity ID, Name, Start Date, Finish Date, Dept., System Spreadsheet
PROD00024507	Action Items Spreadsheet w/entry date, description, owner, due date, completion comments
PROD00024508	Challenges List w/ action descriptions, owners, and comments
PROD00024509	Closed Action Items List w/ description due date, owner, AR#, closure comments
PROD00024510	Refuel Cavity Caulking Maintenance Procedure
PROD00024511	Lessons learned from U12 refueling cavity leakage repair
PROD00024512	Refueling Work Reactor and Refueling
PROD00024513	HIT Project Review re reactor head work
PROD00024514	3/24/2004 HIT Project Review re reactor work
PROD00024515	HIT Project Review re reactor work
PROD00024516	HIT Teams Meeting Action Register
PROD00024517	10/10/2009 Prairie Island Refuel Outage 1R26 Containment Turnover Update
PROD00024518	1R25 refueling outage OCC Action Items/Issues Status Spreadsheet
PROD00024519	1R25 refueling outage OCC Action Items/Issues Status Spreadsheet
PROD00024520	Spreadsheet w/dates and entries
PROD00024521	6/23/2010 Outage Management Meeting Materials
PROD00024522	6/9/2010 Outage Management Meeting Materials
PROD00024523	1R24 Scope Changes spreadsheet
PROD00024524	2R24 Scope Changes spreadsheet
PROD00024525	Prairie Island 1R25 Outage readiness review Power Point
PROD00024526	HIT Teams Sponsor and Leader List
PROD00024527	Complex Work Sponsor and Leader List
PROD00024528	2/11/10 Prairie Island 2R26 Outage Readiness Review
PROD00024529	10/15/2008 2R25 RCP Status Update
PROD00024530	10/16/2008 2R25 RCP Status Update
PROD00024531	10/17/2008 2R25 RCP Status Update
PROD00024532	10/18/2008 2R25 RCP Status Update
PROD00024533	10/22/2008 2R25 RCP Status Update
PROD00024534	10/24/2008 2R25 RCP Status Update
PROD00024535	10/25/2008 2R25 RCP Status Update

Document Number	Description
PROD00024536	10/28/2008 2R25 RCP Status Update
PROD00024537	10/29/2008 2R25 RCP Status Update
PROD00024538	10/13/2008 2R25 RCP Status Update
PROD00024539	10/14/2008 2R25 RCP Status Update
PROD00024540	10/15/2008 2R25 RCP Status Update
PROD00024541	10/16/2008 2R25 RCP Status Update
PROD00024542	10/20/2008 2R25 RCP Status Update
PROD00024543	10/21/2008 2R25 RCP Status Update
PROD00024544	10/23/2008 2R25 RCP Status Update
PROD00024545	10/25/2008 2R25 RCP Status Update
PROD00024546	1R26 Scope Changes Spreadsheet
PROD00024547	2R26 Scope Changes Spreadsheet
PROD00024548	Spreadsheet w/ work order#, activity description requestor, date, add/remove, sent to, justification, disposition, date reviewed
PROD00024549	1R25 notice re cavity leakage repair and foreign material intrusion
PROD00024550	notice re RCS and crud burst
PROD00024551	notice re maintenance work update
PROD00024552	5/1/2010 SOD Turnover
PROD00024553	5/1/2010 SOD Turnover
PROD00024554	5/2/2010 SOD Turnover
PROD00024555	1/29/2009 email from D. Smith to J. Ritter re CC/HELB calculations for decay heat flow requirements
PROD00024556	1/28/2009 email from D. Smith to J. Ritter re CC/HELB calculations for decay heat flow requirements
PROD00024557	3/5/2009 email from D. Smith to J. Ritter, T. Bacon re CC/HELB calculations discussion
PROD00024558	2/10/2009 email from D. Smith to J. Ritter, re CC/HELB calculations discussion
PROD00024559	2/9/2009 email from D. Smith to J. Ritter re CC/HELB calculations discussion
PROD00024560	2/14/2010 Nuclear Project Authorization for Unit 2 Refueling Cavity Leakage
PROD00024561	Description of TDAWFP Pump trip with Photo
PROD00024562	PINGP NRC Preliminary White Finding re: cooling water system piping
PROD00024563	8/5/2009 letter from NRC to M. Wadley re PINGP NRC Inspection report preliminary white finding
PROD00024564	NRC Summary of Findings re PINGP Inspection of component cooling water system
PROD00024565	8/25/2008-8/29/2008 PINGP Nuclear Safety Culture Assessment conducted by Utilities Service Alliance
PROD00024566	6/18/2008 PINGP Team Notes re Nuclear Safety culture
PROD00024567	Interview techniques for tool in self-assessment process
PROD00024568	Tab Z NRC Cross Cutting Components and Aspects
PROD00024569	Z1 NRC Safety Culture Components Short Descriptions
PROD00024570	Z2 NRC Cross Cutting Components/ Aspects NPO Principle attribute

Document Number	Description
PROD00024571	Tab Z3 RC Regulatory Issue Summary 2006-13 Information on the changes made to the reactor oversight process to more fully address safety culture
PROD00024572	Tab Z4 NRC Sample Questions for safety culture components
PROD00024573	Personal responsibility and safety culture notes discussion
PROD00024574	Leadership commitment and personal responsibility discussion notes
PROD00024575	Organizational Trust and safety culture discussion notes
PROD00024576	Decision making safety focus discussion notes
PROD00024577	Nuclear uniqueness and safety culture discussion
PROD00024578	Questioning attitude document discussion and notes
PROD00024579	Organizational Learning document discussion and notes
PROD00024580	Continuous Examination document discussion and notes
PROD00024581	12/1/2009 Prairie Island Public Meeting addressing substantive cross-cutting issues in the area of human performance
PROD00024582	2009 Safety culture flow chart
PROD00024583	11/2009 Prairie Island Nuclear Generating Plant station management safety culture input
PROD00024584	Prairie Island 95001 Inspection Informational Guide
PROD00024585	Symptoms of Declining Plant Performance bubble chart
PROD00024586	Symptoms of Declining Plant Performance - with handwritten notes
PROD00024587	Manager's Update on Pride Initiative - Recovery Plan for Green NRC Findings
PROD00024588	2/3/2009 - Leadership Forum Slideshow - 2009 Focus Areas and Priorities
PROD00024589	1/7/2009 Problem Analysis Session - Focus Group Action Recommendation
PROD00024590	1/7/2009 Problem Analysis Session Focus Group Action Recommendations
PROD00024591	Nuclear Safety Culture/Site Wide Stand Down Group Discussion
PROD00024592	1/7/2009 Problem Analysis Session Focus Group Action Recommendations
PROD00024593	7/22/2009 Handwritten notes re potential NRC issues
PROD00024594	8/07/2009 Handwritten notes for potential NRC issues
PROD00024595	7/30/2007 Pulse Surveys power point presentation MSRC 2007-02
PROD00024596	ECP Data Analysis of work places concerns, 4 graphs
PROD00024597	Reactor allegations by CY received January 2003 - August 2007
PROD00024598	Reactor allegation form on-site sources by CY received January 2003 - August 2007
PROD00024599	Reactor open allegations by CY received January 2003 - August 2007
PROD00024600	Reactor allegations substantiated by CY received January 2003 - August 2007
PROD00024601	Reactor Allegations substantiated with violations/enforcement by CY received: 01/2003 - 08/2007
PROD00024602	2007 NMC Survey Results
PROD00024603	2006 NMC Pulse Survey Results
PROD00024604	2006 NMC Pulse Survey Results
PROD00024605	NMC Pulse Survey Results
PROD00024606	NMC Pulse Survey Results

Document Number	Description
PROD00024607	NMC Pulse Survey Results
PROD00024608	NMC Pulse Survey Results
PROD00024609	NMC Pulse Survey Results
PROD00024610	NMC Pulse Survey Results
PROD00024611	NMC Pulse Survey Results
PROD00024612	NMC Pulse Survey Results
PROD00024613	2006 NMC Pulse Survey Results
PROD00024614	April 2009 PINGP 4 Indices: SCWE, Plant Risk, PI & R, and Human Performance
PROD00024615	May 2009 PINGP 4 Indices: SCWE, Plant Risk, PI & R, and Human Performance
PROD00024616	10/8/2009 Station Performance and Recovery Plan presentation materials
PROD00024617	10/8/2009 Station Performance and Recovery Plan ppt presentation
PROD00024618	PRIDE Performance Recovery Plan and attachments
PROD00024619	PRIDE Performance Recovery Plan and attachments
PROD00024620	Performance Recovery Initiative ppt presentation
PROD00024621	4/6/2009 Full Potential Program ppt presentation
PROD00024622	Pride Initiative
PROD00024623	6/16/2009 memo re establishing zero tolerance for Overdue CAPS
PROD00024624	6/16/2009 Prairie Island Performance Assessment Review Board Memorandum of Understanding
PROD00024625	5/12/2009 Recovery Plan Sequential Report re Human Performance
PROD00024626	95001 FSA for TDAFW Pump Exit - RCE 1146005 Report with handwritten notes
PROD00024627	Action plan to improve Safety Culture
PROD00024628	Performance Assessment Department Accountabilities
PROD00024629	Management Work Management - Communication Roles & Responsibilities
PROD00024630	NRC Reactor Oversight / Safety Culture Vulnerability - Gap Analysis conducted by CERTREC CORPORATION
PROD00024631	3/12/2009 email from Mark Reidmeyer to Mike Wadley re: Gap closure plan for Procedure Quality and Decision Making
PROD00024632	Gap Closure Plan - Procedure Quality
PROD00024633	Calculations for CC/HELB flooding
PROD00024634	11/2005 NEMA Enclosure Types
PROD00024635	Reactor Makeup System Control Logic Drawings
PROD00024636	6/14/2010 Summary of Discussion with NRC
PROD00024637	5/13/2010 NRC Question Response Form re various administrative procedures and reports
PROD00024638	5/13/2010 95001 CC-HELB Prairie Island Supplemental Inspection Documentation Request
PROD00024639	6/14/2010 NRC Question Response Form re final configuration of piping penetration
PROD00024640	6/14/2010 NRC Question Response Form re 125 VDC Panel 162 in Aux Bldg
PROD00024641	4/5/2002 PINGP Condition Report: Revised HELB temperatures for the 715, 735, and 755 Auxiliary Building
PROD00024642	6/14/2010 NRC Question Response Form re safety related systems in non-safety related buildings
PROD00024643	6/15/2010 NRC Question Response Form re location of CC isolation valve w/r/t tornados

Document Number	Description
PROD00024644	Operability Recommendation re CC piping routed through area where it may not be adequately protected against tornados
PROD00024645	Operability Recommendation re HELB analysis that was never reviewed and approved
PROD00024646	6/15/2010 Action Request Report: Battery Room Heat up Calc was cancelled with no replacement
PROD00024647	2/8/1995 Letter from B. Beasley with TENERA to R. Fraser with PINGP re Revisions of TENERA Battery Room Analyses
PROD00024648	2/3/1995 Report on Battery Room Loss of Ventilation prepared by Tenera
PROD00024649	6/15/2010 Action Request Report: Adverse trend in errors in OPRS
PROD00024650	6/15/2010 NRC Question Response Form re engineering training on licensing basis
PROD00024651	6/15/2010 NRC Question Response Form re seismic situations
PROD00024652	50.59 Screening: Compensatory Measures for CC Piping in the Auxiliary Building Fuel Handling Area
PROD00024653	6/10/2010 Group of Temporary Change Requests
PROD00024654	6/16/2010 NRC Question Response Form re PINGP's use of probabilistic assessment
PROD00024655	7/15/1992 Design Basis Reconstitution Effort Identified a Condition Outside the Plant Design Basis
PROD00024656	6/30/1992 Letter from G. Aandahl with Design Standards to K. Albrecht re D1 Component Missile Protection
PROD00024657	Configuration Management Follow-on Item: Short Term Assessment: D1 Component Missile Protection
PROD00024658	9/19/1991 Safety Evaluation: Evaluation of Diesel Generator and Diesel Cooling Water Pump Fuel Oil Storage and Day Tank Vent Piping Design
PROD00024659	6/16/1992 Safety Evaluation: Tornado Missile Hazard vs. D1
PROD00024660	5/4/1992 Probabilistic Risk Assessment of D1 EDG Room Door Vulnerability to Tornado Missiles
PROD00024661	6/16/2010 NRC Question Response Form re acceptability of use of non-safety related charging pumps for RCP seals during an accident
PROD00024662	6/28/1991 Except from report describing training course for individuals who perform seismic review
PROD00024663	Memo from J. Partlow with Office of Nuclear Reactor Regulation re Supplement No 1 to Generic Letter 87-02 that Transmits Supplemental Safety Evaluation Report No. 2 on SQUG Generic Implementation Procedure, Revision 2, as Corrected on February 14, 1992
PROD00024664	Supplemental Safety Evaluation Report No. 2 on SQUG Generic Implementation Procedure, Revision 2, as Corrected on February 14, 1992 for Implementation of GL 87-02 (USI A-46), Verification of Seismic Adequacy of Equipment in Older Operating Nuclear Plants
PROD00024665	6/17/2010 NRC Question Response Form re steam dumps during steam line breaks
PROD00024666	NRC Question Response Form re break in main steam drain line
PROD00024667	6/17/2010 Action Request Report: MS trap & drain line pipe whip into CC pipes
PROD00024668	6/17/2010 NRC Question Response Form re CL piping in screenhouse w/r/t tornado missile impacts
PROD00024669	8/3/1970 Engineering drawings/schematics: Screenhouse Cooling Water Piping Unit 1 & 2
PROD00024670	8/3/1970 Engineering drawings/schematics re Screenhouse Cooling Water Piping Unit 1 & 2
PROD00024671	6/17/2010 NRC Question Response Form re PINGP's Design Basis HELB study
PROD00024672	6/17/2010 Email from A. Smith to S. DiPasquale re status of HELB assessment funding

Document Number	Description
PROD00024673	6/16/2010 2010 CC-HELB 95001 Q/A - All Open Items
PROD00024674	Apparent Cause Evaluation: Opportunities to identify HELB and CC system interaction were missed, Revision 3
PROD00024675	8/3/2009 Action Request Report: Missed opportunities to identify HELB and CC system interactions
PROD00024676	8/3/2009 Action Request Report: Non-seismic Equip in CC SYS Press Boundary
PROD00024677	9/18/2008 Apparent Cause Evaluation: CC lines identified as being affected by HELB and lack of CAP, Revision 3
PROD00024678	1/15/2010 Action Request Report: CC piping adjacent to HELB location in turbine bldg
PROD00024679	10/4/1995 PINGP Calculation Cover Sheet: Single Failure Analysis for the Component Cooling System
PROD00024680	10/4/1995 Calculation Verification Checklist: Single Failure Analysis for the Component Cooling System
PROD00024681	5/1990 Single Failure Analysis for the Component Cooling System, prepared by Pioneer Engineers & Consultants
PROD00024682	Single Failure Analysis for the Component Cooling System: Table 2
PROD00024683	Single Failure Analysis for the Component Cooling System: Table 3
PROD00024684	Single Failure Analysis for the Component Cooling System: Table 4: QAI-to-QAII/III Piping Boundaries
PROD00024685	Single Failure Analysis for the Component Cooling System: Table 5: Component Classification / Electrical Data
PROD00024686	Single Failure Analysis for the Component Cooling System: Table 6: Component Classification / Electrical Data
PROD00024687	Single Failure Analysis for the Component Cooling System: Table 7: Flow Diagram "QA Type Designation" Discrepancies
PROD00024688	Single Failure Analysis for the Component Cooling System: Table 8: Interlock Logic Diagram and Instrument List Discrepancies
PROD00024689	Operability Recommendation Form re Non-Seismic Equipment in CC System Pressure Boundary with comments
PROD00024690	1/21/2010 Action Request Report: Non-Seismic Equip in C SYS Press Boundary
PROD00024691	8/12/2009 Engineering Change Request: Add a closed loop cooling water circuit for turbine building loads
PROD00024692	6/2/2006 Letter from S. Raupp with Sargent & Lundy to S. Thomas w/ NMC re Proposal for preparation of cost estimates for isolation of the component cooling system piping to cold chemistry lab
PROD00024693	1/9/2006 Fleet Procedure: CAP Action Request Process, Revision 10
PROD00024694	3/13/2008 Fleet Procedure: CAP Action Request Process, Revision 18
PROD00024695	CAP Action Request Process, Nuclear Department Fleet Procedure 5/14/2009
PROD00024696	NMC Corporate Office Quality Procedures, Action Request Process 12/14/2003
PROD00024697	8/03/2009 Action Request Report, Seismic Analysis of the CC system
PROD00024698	8/03/2009 Action Request Report, Turbine building HELB calculation work
PROD00024699	7/31/2008 SOMS Narrative Log Search
PROD00024700	3/10/2006 NMC Cause Investigation Report
PROD00024701	6/26/2003 NMC Cause Investigation Report
PROD00024702	11/13/2005, 11/30/2005, 12/29/2005 NMC Cause Investigation Report
PROD00024703	NMC RCE Report, D5 Inoperability - Organizational Issues 10/22/2007
PROD00024704	3/03/2006 AES proposal to provide engineering services for the CC piping project
PROD00024705	8/01/2005 Engineering Assistance Request for CC piping in cold chem lab
PROD00024706	7/24/2006 Screening Committee Meeting Agenda

Document Number	Description
PROD00024707	1/14/2008 Chemistry Lab Component Cooling Study by NMC
PROD00024708	7/15/1998 Potential for HELB to degrade component cooling water system
PROD00024709	7/02/2008 Identified NRC Crosscutting Issues NMC Report
PROD00024710	RCE Report - Site Response to Issues with SI-9-5, June 2006 - March 2008
PROD00024711	Site Response to Issues with 11 TD AFWP Turbine Bearing Failure 03/23/2008
PROD00024712	RCE Report - TSC Ventilation System 07/15/2008
PROD00024713	RCE Report PINGP Radioactive Material Shipment 10/30/2008
PROD00024714	RCE Report, SCAQ Inadequate CAP Resolution of Significant Issues 01/26/2009
PROD00024715	PINGP investigation of CAP & issue resolution 02/27/2009
PROD00024716	Interview questions for CAP investigation
PROD00024717	Process Failure Modes Chart for CAP Investigation
PROD00024718	Organizational and Management Failure Modes Chart for CAP Investigation
PROD00024719	Human Performance Failure Modes Chart for CAP Investigation
PROD00024720	Why Staircase attachment for CAP Investigation
PROD00024721	Failure Modes Analysis Diagram for CAP Investigation
PROD00024722	AR Process Flow Analysis for CAP Investigation
PROD00024723	RCE Action Review Summary for CAP Investigation
PROD00024724	Procedure Review Barrier Analysis for CAP Investigation
PROD00024725	Apparent Cause Evaluation for CAP AR#01154831
PROD00024726	8/07/2009 Interview with S. Meyers re potential for turbine building HELB to impact CC piping
PROD00024727	Handwritten notes re events and white findings from September 2003 - May 2007
PROD00024728	1/12/2010 Interview notes with S Myers re HELB
PROD00024729	1/12/2010 Follow up questions with S Myers re HELB
PROD00024730	1/13/2010 Interview with B Slack re HELB
PROD00024731	8/05/2009 Interview with D Anderson re HELB and the CCW System
PROD00024732	Handwritten answers to interview questions re HELB and CC piping, author unidentified
PROD00024733	8/06/2009 Interview questions for S Leingang re HELB and CC piping
PROD00024734	Interview questions with S Leingang re HELB and CC piping
PROD00024735	8/06/2009 Interview questions with M Davis re HELB and CC piping
PROD00024736	8/06/2009 Handwritten notes from interview with M Meyer re HELB issues from August 1997 through June 2007
PROD00024737	8/06/2009 Interview with M Davis re HELB and CC piping
PROD00024738	8/05/2009 Interview with G Wheelcock re HELB and CC piping
PROD00024739	8/05/2009 Interview with G Wheelcock re HELB and CC piping
PROD00024740	8/05/2009 Handwritten notes from interview with G Wheelcock re HELB and CC piping
PROD00024741	8/06/2009 Interview with M Meyer re HELB and CC piping
PROD00024742	Handwritten notes from interview with M Davis re HELB and CC piping
PROD00024743	8/06/2009 Interview with M Meyer re HELB and CC piping

Document Number	Description
PROD00024744	2/02/2010 Interview with W Hadeka re understanding of accident and safety data
PROD00024745	2/02/2010 interview with M Cabriro re understanding of accident and safety data
PROD00024746	2/27/2010 Interview with M Domke re understanding of accident and safety data
PROD00024747	2/27/2010 Interview with K Holmstrom re understanding of accident and safety data
PROD00024748	2/27/2010 Interview with B Horner re understanding of accident and safety data
PROD00024749	8/05/2009 Interview with D Anderson re HELB and CC piping
PROD00024750	Handwritten notes from interview with D Anderson re HELB and CC piping
PROD00024751	Interview Summaries re HELB and CC piping
PROD00024752	6/28/1990 Follow-on item, determine SI pump seal and lube oil cooling requirements
PROD00024753	12/05/1990 letter from Ben Stephens of Design Standards to D. Mendele re determine SI pump seal and lube oil cooling requirements
PROD00024754	2/10/1997 interoffice memo from J Kivi to File 90XCM5-J000A0108 re closure of file, determine SI pump seal and lube oil cooling requirements
PROD00024755	1/23/1996 Internal Correspondence from J. Kivi to File 90XCM5-J000A0108 re closure of FOI no. A0108 "Determine SI pump seal and lube oil cooling requirements"
PROD00024756	11/27/2000 Licensing Event Report re Flooding from Postulated Failure of Air/Vacuum valve
PROD00024757	11/27/2000 Licensing Event Report by J. Stanton on Flooding from Postulated Failure of Air/Vacuum valve
PROD00024758	1/17/2007 Licensing Event Report by A. Hunstad on CC Alignments are not within intent of technical specifications
PROD00024759	Configuration Management Follow-On Item Assessment re: evaluation of Cooling Water System to withstand a single active failure
PROD00024760	7/19/1995 response to FOI No. A0862 - CL Single Failure Analysis Open Issues
PROD00024761	May 1995 FOI No. A0863 re: CC Single Failure Analysis Open Issues
PROD00024762	May 1995 Response to FOI No. A0863 - CC Single Failure Analysis Open Issues
PROD00024763	10/10/1999 Memo re Auxiliary building HELB analyses are discussed and used as rationale to evaluate the S&L Calc issue
PROD00024764	08/04/2009 K.Christopher Passport Action Tracking report re turbine building HELB analysis
PROD00024765	08/04/2009 K.Christopher Passport Action Tracking Report CAP re discussion of turbine building HELB analysis
PROD00024766	09/17/2007 Engineering assistance request re interaction of HELB status and steam exclusion damper replacement study
PROD00024767	3/19/2007 Request for Phased Authorization re: the replacement of the cooling water valves
PROD00024768	8/4/2009 Study data - Component Cooling Piping to Cold & Hot Chem Labs are not Seismically Qualified and HELB is a concern
PROD00024769	1/5/2009 Request for Phased Approval TITLE: Unit 1 and Unit 2 Pressurizer PORV Backup Air
PROD00024770	4/12/2005 Prairie Island Long Range Project and Major Maintenance Plan
PROD00024771	8/4/2009 O / M Long Range Plan
PROD00024772	10/10/1999 email to T. Amundson cc R. Lalone, M. Brossart re: revised HELB schedule

Document Number	Description
PROD00024773	7/26/2001 letter from NRC to J. Sorensen re: CAP program TITLE: PINGP NRC Inspection Report 50-282/01-11(DRP); 50-306/01-11(DRP)
PROD00024774	June 11 - 29, 2001 NRC Report No: 50-282/01-11(DRP); 50-306/01-11(DRP) re: corrective action program
PROD00024775	Engineering Assistance Request TITLE: Component Cooling Piping in the Cold Chem Lab is not Seismically Qualified
PROD00024776	7/30/2004 NMC Corporate Office Quality Procedures Performance Assessment Fleet Procedure by J. Hill regarding the operating experience program
PROD00024777	3/2/2006 letter from Stevenson and Associates to M. Myer regarding request for proposal CC piping project and engineering cost estimate.
PROD00024778	12/11/2000 US NRC Office of Nuclear Reactor Regulation regarding Potential Loss Redundant Safety Related Equipment Because of the lack of High Energy Line Break Barriers
PROD00024779	12/11/2000 US NRC Office of Nuclear Reactor Regulation Potential Loss of Redundant Safety Related Equipment Because of the Lack of High Energy Line Break Barriers
PROD00024780	1/21/2010 Action Request Report re: HELB Resolution Project cost overruns
PROD00024781	1/12/2010 Action Request Report re: HELB Project cost overruns
PROD00024782	1/12/2010 Action Request Report re: CC piping adjacent to HELB location in U2 turbine building
PROD00024783	PINGP Q-List Validation Project Component Cooling System Report
PROD00024784	2/8/2008 letter from M. Meyer to S. Raupp re: Request for Proposal, CC Piping Project
PROD00024785	2/8/2006 letter from M. Meyer to S. Raupp re: Request for Proposal, CC Piping Project and Component Cooling Piping Project Engineering Work Scope
PROD00024786	Letter from S. Raupp to M. Meyer re: Sargent and Lundy proposal for engineering support for the Component Cooling Piping Project Engineering Work Scope
PROD00024787	Component Cooling Piping Project Engineering Work Scope
PROD00024788	3/3/2006 letter from S. Raupp to M. Meyer re: Sargent & Lundy's proposal to NMC for providing engineering services to support the Component Cooling Piping Project at PINGP
PROD00024789	6/2/2006 letter from S. Raupp to S. Thomas re: Sargent & Lundy's Proposal for Preparation of Cost Estimates for Isolation of the Component Cooling (CC) System Piping to Cold Chemistry Lab
PROD00024790	2/15/2007 letter from R. Lindberg to E. Halverson re: Proposal for Preparation of Refined Alternatives for Isolation of the Component Cooling (CC) System Piping to Cold Chemistry Lab
PROD00024791	3/30/2007 faxed Procurement Contract between Prairie Island and Sargent & Lundy
PROD00024792	PINGP Task Scoping Document - Mechanical Design CC Piping Project
PROD00024793	1/30/2008 letter from R. Lindberg to P. Huffman re: Engineering Cost Estimate for a Study to Upgrade Chemistry Hot and Cold Laboratories
PROD00024794	August/September 2008 Cold Laboratory Temporary Cooling Design Description Preliminary
PROD00024795	1/15/2010 Engineering Change Request re: (PRI 44) Alternate Cooling for the Cold Lab
PROD00024796	8/4/2008 Engineering Change re: Turbine Building HELB Walkdown
PROD00024797	8/28/2008 document re: issue with CC lines to the cold lab discovered while conducting a HELB evaluation of Component Cooling (CC) piping in the Turbine Building on 7/29/2008

Document Number	Description
PROD00024798	EQ Components Located in the Turbine Building
PROD00024799	06/05/2009 PINGP CCW/Turbine Building SDP Issue Risk Significance
PROD00024800	01/12/1999 PINGP Operating Experience Assessment program establishment
PROD00024801	PINGP CC System surveillance requirements
PROD00024802	12/30/1995 Operability Determinations, guidance for the review of operability determinations and resolution of nonconforming conditions
PROD00024803	07/08/2009 Operability Determinations for safety related systems
PROD00024804	8/5/1998 Letter from Beth Wetzel (Office of Nuclear Reactor Regulation) to Roger Anderson re resolution of USI A-46 form PINGP
PROD00024805	8/5/1998 NRC Safety Evaluation re USI A-46 program implementation
PROD00024806	11/20/1995 Letter from NRC to NSP/PINGP re response to generic letter 87-02, verification of seismic adequacy of mechanical and electrical equipment
PROD00024807	November 1995 NRC USI A-46 resolution seismic evaluation report
PROD00024808	12/31/1996 Follow up letter from NSP/PINGP to NRC re verification of seismic adequacy of mechanical and electrical equipment
PROD00024809	Prairie Island Updated Safety Analysis Report regarding high energy piping systems and required equipment
PROD00024810	Condition Report Description- Auxiliary Building HELB analysis and environmental evaluation for prairie island auxiliary building
PROD00024811	HELB review of EQ components
PROD00024812	2009 (first quarter) human performance for engineers power point presentation
PROD00024813	Design and Licensing Basis - ESP Continuing - training power point presentation
PROD00024814	6/16/2010 Passport Action Tracking- Action Request Report regarding tornado and seismic evaluation of components
PROD00024815	Area for Improvement EN.2-2 Text
PROD00024816	8/7/2009 Action Request Report: Evaluate Turbine Building HELB Analysis
PROD00024817	1/15/2010 Action Request Report: Turbine Building HELB Analysis Not Completed by INPO Date
PROD00024818	1/13/2010 Action Request Report: INPO Commitments - Engineering Programs AFI EN.2-2
PROD00024819	1/13/2010 Action Request Report: Evaluate Auxiliary Building HELB Analysis
PROD00024820	1/13/2010 Action Request Report: Evaluate Turbine Building HELB Analysis
PROD00024821	1/13/2010 Action Request Report: Determine Proper Safety Class/QA Type for Pipe and Components
PROD00024822	1/13/2010 Action Request Report: INPO Commitments: Engineering Programs AFI EN.2-2
PROD00024823	8/7/2009 Action Request Report re Auxiliary Building HELB Analysis
PROD00024824	Turbine Building HELB Analysis Action Plan and History
PROD00024825	12/15/2004 Turbine Building HELB Analysis Action Plan - Updated
PROD00024826	12/15/2004 Turbine Building HELB Analysis Action Plan - Updated
PROD00024827	Turbine Building HELB Analysis Action Plan
PROD00024828	8/1/2008 NMC Operability Recommendation re Turbine Building CC Piping with handwritten notes
PROD00024829	USAR Appendix I - Pipe Stress and Pipe Whip - SE #479-AI-03

Document Number	Description
PROD00024830	4/19/2006 Spreadsheet - Review of Issues and Options to Modify CC Piping to meet Upgraded Classification
PROD00024831	Turbine Building HELB Analysis Action Plan
PROD00024832	12/16/2004 Action Request Report re Auxiliary Building HELB Analysis
PROD00024833	12/15/2004 Turbine Building HELB Analysis Action Plan - Updated
PROD00024834	12/15/2004 Turbine Building HELB Analysis Action Plan - Updated
PROD00024835	12/15/2004 Turbine Building HELB Analysis Action Plan - Updated
PROD00024836	3/29/1994 PINGP Abnormal Operating Procedures - Loss of Component Cooling
PROD00024837	1/10/2006 PINGP Abnormal Operating Procedures - Loss of Component Cooling
PROD00024838	Spreadsheet detailing Priorities related to CAP # 449041
PROD00024839	June 2007 Chemistry Lab Component Cooling Study
PROD00024840	1/26/2006 Component Cooling Water System Phase 1 Study of Nonsafety Related CC Piping
PROD00024841	7/15/2005 Meeting Notes re Qualification of CC Piping
PROD00024842	7/27/2005 Email from L. Clewett to S. Myers w/ M. Runion & T. Silverberg cc'd re Extension of CA 10530
PROD00024843	7/20/2005 Notes made by A. Wureski, S. Myers & C. Koehler re CC piping to Cold Chem lab
PROD00024844	Activity Requested: seismic analysis on 1 lines with comments
PROD00024845	Review of Seismic Qualification of Components Identified in CAP037749
PROD00024846	7/25/2005 Letter from S. Raupp with Sargent & Lundy to A. Qureshi with NMC re Proposal for study of component cooling system piping to cold chemistry and hot chemistry labs
PROD00024847	Unit 1 CC P&ID Drawing Coordinates D-7 for Report on Component Cooling System SR/NSR Boundary
PROD00024848	3/31/2005 Internal Operating Experience
PROD00024849	3/22/2005 Internal Operating Experience
PROD00024850	2/15/2005 Internal Operating Experience
PROD00024851	6/1/2009 Root Cause Evaluation Manual
PROD00024852	Apparent Cause Evaluation CAP AR #01162511 Opportunities to identify HELB and CC system interaction were missed
PROD00024853	12/15/2008 Action Request Report CAP 01162511 Missed opportunities to identify HELB and CC system interaction
PROD00024854	11/20/2004 Action Request Report CAP 00737382 Non-Seismic Equipment in CC system press boundary
PROD00024855	9/18/2008 Apparent Cause Evaluation CAP AR # 01145695 CC lines were identified as being affected by HELB
PROD00024856	7/9/2009 Action Request Report CAP CC piping adjacent to HELB location in turbine building
PROD00024857	5/1990 Single Failure Analysis for the Component Cooling System at PINGP
PROD00024858	Operability Recommendation Form re Non-Seismic Equipment in CC System Pressure Boundary
PROD00024859	8/2/2004 Action Request Report CAP 00737382 Non-Seismic Equipment in CC system Press Boundary
PROD00024860	6/2/2006 letter from B. Raupp to S. Thomas re Proposal for preparation of cost estimates for isolation of CC system piping from Cold Chemistry lab piping
PROD00024861	1/9/2006 CAP Action Request Process manual
PROD00024862	3/13/2008 CAP Action Request Process manual
PROD00024863	5/14/2009 CAP Action Request Process manual

Document Number	Description
PROD00024864	10/15/2003 Action Request Process Procedure
PROD00024865	3/29/2005 Action Request Report CAP 00826114 Perform Seismic Analysis CC system
PROD00024866	7/10/2008 Action Request Report CAP 01143812 re Turbine building HELB funding delays could affect project success
PROD00024867	PINGP Root Cause Evaluation of Organizational Response to Operational Issues
PROD00024868	3/3/2006 letter from A. Setlor to M. Meyer re proposal to provide engineering services for the CC piping project
PROD00024869	8/1/2005 Engineering Assistance Request re CC piping is not seismically qualified and HELB is a concern
PROD00024870	7/24/2006 Screening Committee Meeting Agenda
PROD00024871	1/14/2008 Chemistry Lab Component Cooling Study
PROD00024872	RCE Identified NRC Crosscutting Issues
PROD00024873	10/30/2009 RCE re Radioactive Material Shipment Exceeded DOT Limits
PROD00024874	RCE re Inadequate CAP Resolution of Significant Issues
PROD00024875	Process Failure Modes Chart
PROD00024876	Organizational and Management Failure Modes Chart
PROD00024877	Human Performance Failure Modes Chart
PROD00024878	Why Staircase re CAP AR initiators not providing sufficient detail, safety culture, and other issues
PROD00024879	Failure Modes Analysis Diagram
PROD00024880	AR Process Flow Analysis
PROD00024881	RCE Action Review Summary
PROD00024882	Procedure Review Barrier Analysis
PROD00024883	Apparent Cause Evaluation, CAP 01154831, re failure in application of conservative assumptions resulted in a delay in implementation of corrective actions for resolving Bus 15 Load Sequencer failure codes and 11 Turbine Driven Auxiliary Feed Water Pump high bearing temperature
PROD00024884	1/12/2010 Interview Notes with Sonja Myers
PROD00024885	1/12/2010 Followup Questions with Sonja Myers
PROD00024886	8/7/2009 RCE 1145695, Interview Questions with Sonja Meyers
PROD00024887	1/13/2010 Interview with Bryan Slack
PROD00024888	8/5/2009 RCE 1145695: Interview Questions: Don Anderson
PROD00024889	Notes on an interview re CRE 1145695
PROD00024890	8/6/2009 RCE 1145695: Interview Questions: Scott Leingang
PROD00024891	Notes on an interview with Scott Leingang re RCE 1145695
PROD00024892	8/6/2009 RCE 1145695: Interview Questions: Mark Davis
PROD00024893	8/6/2009 RCE 1145695: Interview Questions: Mark Davis
PROD00024894	8/5/2009 RCE 1145695: Interview Questions: Gary Wheelcock
PROD00024895	8/5/2009 RCE 1145695: Interview Questions: Gary Wheelcock
PROD00024896	8/6/2009 RCE 1145695: Interview Questions: Mark Meyer
PROD00024897	8/6/2009 RCE 1145695: Interview Questions: Mark Meyer
PROD00024898	2/2/2010 RCE 1145695: Interview Questions: Walt Hadeka

Document Number	Description
PROD00024899	2/2/2010 RCE 1145695: Interview Questions: Martin Cabriro
PROD00024900	2/27/2010 RCE 1145695: Interview Report: Matt Domke
PROD00024901	8/5/2009 RCE 114595: Interview Questions: Don Anderson
PROD00024902	Interview Summaries, Revision 2
PROD00024903	1/21/2010 Action Request Report: Conduct an assessment of the results from SOER 02-4, Rec. 3A and 3B
PROD00024904	4/29/2003 Internal Correspondence from SOER 02-4 Rec. 3 Screening Team to CARB re SOER 02-4 Recommendation 3a and 3b
PROD00024905	SOER 02-4 Recommendation 3: Worst-case outcome ranking of A and B significant levels
PROD00024906	SOER 02-4 Recommendation 3: Background information on A and B significant levels
PROD00024907	SOER 02-4 Recommendation 3: C and D significant level list
PROD00024908	SOER 02-4 Recommendation 3: Non-equipment issues from staff solicitation
PROD00024909	7/16/1990 Configuration Management Follow-On Item Identification Form: Determine SI Pump leak and lube oil cooling requirements
PROD00024910	12/5/1990 Letter from B. Stephens with Design Standards to D. Mendele re Determine SI Pump Seal and Lube Oil Cooling Requirements
PROD00024911	Configuration Management Follow-On Item Resolution Short Term Assessment: Determine SI Pump Seal and Lube Oil Cooling Requirements
PROD00024912	Configuration Management Follow-On Item Resolution Long Term Assessment: Determine SI Pump Seal and Lube Oil Cooling Requirements
PROD00024913	Reference page for Configuration Management Follow-On Item Resolution: Determine SI Pump Seal and Lube Oil Cooling Requirements
PROD00024914	2/10/1997 Internal Correspondence from J. Kivi to File: 90XCM5-J000A0108 re Closure of FOI No. A0108
PROD00024915	10/25/1990 Record of Meeting/Telecon re Solzen-Bingham Pump
PROD00024916	1/23/1996 Internal Correspondence from J. Kivi to File: 90XCM5-J000A0108 re Closure of FOI No. A0108
PROD00024917	2/21/2005 Activity Request: External Operating Experience: Internal OE from Kewaunee - CAP025588 The Condensate Makeup Line to AFW Pumps is Vulnerable to a FW Line Break
PROD00024918	2/21/2005 Internal Operating Experience Rapid Notification Report re CAP 025588 (HELB issue)
PROD00024919	8/5/2009 Action Request Record Report re HELB breaks and certain equipment being susceptible to damage from pipe whip
PROD00024920	Report: Condensate Makeup Line to AFW Pumps is Vulnerable to a FW Line Break
PROD00024921	Manifest Worksheet: LER 1-00-03 Flooding from Postulated Failure of Air/Vacuum Valve Has Potential to Disable Both Trains of Essential Service (Cooling) Water
PROD00024922	11/27/2000 letter from J Sorensen (NMC) to NRC re: LER 1-00-03 Flooding from Postulated Failure of Air/Vacuum Valve Has Potential to Disable Both Trains of Essential Service (Cooling) Water
PROD00024923	1/29/2001 Licensee Event Report Flooding from Postulated Failure of Air/Vacuum Valve Has Potential to Disable Both Trains of Essential Service (Cooling) Water

Document Number	Description
PROD00024924	1/17/2007 Letter from R Anderson to NRC re Determination That Some Component Cooling System Alignments Are Not Within Intent of Technical Specifications
PROD00024925	Licensee Event Report re: Determination That Some Component Cooling System Alignments Are Not Within Intent of Technical Specifications
PROD00024926	Configuration Management Follow-on Item (FOI) Assessment No. A0862 re: CL Single Failure Analysis Open Issues
PROD00024927	References for previous FOI A0862
PROD00024928	7/19/1995 Memo from Bob Peterson to John Goldsmith re: FOI No. A0862 "CL Single Failure Analysis Open Issues"
PROD00024929	Configuration Management Follow-on Item (FOI) Assessment No. A0863 re: CL Single Failure Analysis Open Issues
PROD00024930	References for previous FOI A0863
PROD00024931	May 1995 Memo from Bob Peterson to John Goldsmith re: FOI No. A0863 "CL Single Failure Analysis Open Issues"
PROD00024932	1/18/2007 Action Request Report re A/R 01072605: Revised U2 FW Analysis has New HELB Cracks Requiring Evaluation
PROD00024933	2/14/2004 Action Request Report re A/R 00576240: HELB issue has been organized into two major tasks
PROD00024934	Turbine Building HELB Analysis Action Plan
PROD00024935	Summary of actions taken for Turbine and Auxiliary Building HELB Analyses
PROD00024936	Turbine Building HELB Analysis Action Plan (updated December 15, 2004)
PROD00024937	Notebook Attachment for Issue Number 19991622 re error in computer code relied upon with Turbine Building HELB analysis
PROD00024938	8/4/2009 Action Request Report re A/R No. 00034885: Cancel Safety Evaluation #SE-519
PROD00024939	Summary of CAPS regarding Turbine Building HELB Analysis
PROD00024940	9/1/2007 Engineering Assistance Request (EAR) re proper operation of Steam Exclusion dampers needed to support HELB break design criteria
PROD00024941	8/4/2009 Study Data Report for different projects including HELB analysis
PROD00024942	4/12/2005 Prairie Island Long Range Project and Major Maintenance Plan
PROD00024943	8/4/2009 O/M Long Range Plans
PROD00024944	7/26/2001 Letter from NRC to J Sorensen (PINGP) re corrective action program
PROD00024945	June 2001 NRC Inspection Report
PROD00024946	7/24/2006 Prairie Island Screening Committee Meeting Minutes re CC Piping in Cold Chem Lab
PROD00024947	Engineering Assistance Request (EAR) re Component Cooling Piping in Cold Chem Lab is not Seismically Qualified
PROD00024948	12/19/2002 Operability Determination of safety-related equipment, systems, structures and components
PROD00024949	3/2/2006 Letter from P Gazda (Stevenson & Associates) to M Meyer (PINGP) re engineering cost estimate for Component Cooling (CC) project
PROD00024950	12/11/2000 NRC Report re Potential Loss of Redundant Safety-related Equipment Because of Lack of HELB Barriers
PROD00024951	12/11/200 letter/information notice from NRC re: HELB safety concerns
PROD00024952	1/21/2010 Action Request Report re: HELB resolution project and general safety
PROD00024953	1/12/2010 Action Request Report re: HELB resolution project and general safety
PROD00024954	1/12/2010 Action Request Report re: HELB event safety and component cooling system

Document Number	Description
PROD00024955	12/11/2006 PING report re: component cooling system and HELB safety project
PROD00024956	Memo re: safety projects including seismic events safety and HELB
PROD00024957	2/28/2006 letter from Sargent & Lundy re: component cooling water system and HELB safety project
PROD00024958	undated memo re: safety projects including seismic events safety and HELB
PROD00024959	2/8/2006 NRC letter to PING re: HELB safety project
PROD00024960	8/3/2009 PING report re: piping project and seismic event concerns
PROD00024961	9/22/2008 engineering report re: PING component cooling water system and HELB risk significance
PROD00024962	8/4/2008 engineering report re: HELB risk significance
PROD00024963	6/5/2009 report re: PING component cooling water system and HELB risk significance
PROD00024964	8/5/1998 NRC report re: PING safety evaluation including seismic event safety
PROD00024965	11/1/1995 report by Stevenson & Associates re: seismic events evaluation
PROD00024966	Report re: PING HELB and pipe failure analysis rev 22
PROD00024967	8/7/2008 email from B.Slack to G.Hostetter re: Control Room Heat/Cooling Load in case of HELB and whether HELB would result in safety injection
PROD00024968	9/4/2008 email from B. Slack to G. Hostetter re: Plateau Learning Expiration Notification for employee Dennis R Barnaby

ATTACHMENT 2

**Northern States Power Co.
 Prairie Island Nuclear Generating Plant, Units 1 and 2 License Renewal Proceeding
 Docket Nos. 50-282-LR, 50-306-LR; ASLBP No. 08-871-01-LR
 Proprietary Log for NSPM's First Supplemental Disclosures Regarding Safety Culture Contention (June 30, 2010)**

Document Number	Date	Entity Claiming Protected Status	Description
PROP00000240	Aug-91	EPRI - Electric Power Research Institute	Heat-Stress management Program for Power Plants (Revision 1)
PROP00000241	5/21/2009	EPRI	EPRI HRA Calculator 4.1 - 0LPMCHGGHXY, Operator Fails to Start the Standby Charging Pump Following LOCC Due to 3/8" Pipe Break in Gas House
PROP00000242	5/21/2009	EPRI	EPRI HRA Calculator 4.1 - 0LRCPVC11XY, Operator Fails to open VC-1-1
PROP00000243	3/1/2009	EPRI	EPRI HRA Calculator 4.0 - Report Detailing Various HFE Analyses related to Loss of CC
PROP00000244	3/1/2009	EPRI	Report - EPRI HRA Calculator 4.0 - HFE Analyses
PROP00000245	5/6/2009	Curtis-Wright Corporation	05/06/2009 Email from J.Grobbelaar to R.Best and J.Ritter cc J.Julius Re Prairie Island SDP Simulator runs - flood prevention in the turbine building
PROP00000246	5/6/2009	Curtis-Wright Corporation	05/06/2009 Email from J.Grobbelaar to J.Ritter cc R.Best and J.Julius Re PI SDP simulator runs discussing HELP event large break flow and predicted flooding effects on the turbine building and the component cooling system
PROP00000247	5/6/2009	Curtis-Wright Corporation	05/06/2009 Email from J.Ritter to J.Grobbelaar cc R.Best and J.Julius Re PI SDP simulator runs discussing HELP event large break flow and predicted flooding effects on the turbine building and the component cooling system
PROP00000248	5/5/2009	Curtis-Wright Corporation	05/05/2009 Email from J.Grobbelaar to J.Ritter cc R.Best and J.Julius Re PI SDP simulator runs. Related to operator training
PROP00000249	5/5/3009	Curtis-Wright Corporation	05/05/2009 Email from J.Grobbelaar to J.Ritter cc R.Best and J.Julius Re PI SDP simulator runs.

Document Number	Date	Entity Claiming Protected Status	Description
PROP00000250	5/5/2009	Curtis-Wright Corporation	05/05/2009 Email from J.Grobbelaar to J.Ritter cc R.Best and J.Julius Re PI SDP simulator runs.
PROP00000251	5/5/2009	Curtis-Wright Corporation	05/05/2009 Email from J.Grobbelaar to J.Ritter cc R.Best and J.Julius Re PI SDP simulator runs.
PROP00000252	5/4/2009	Curtis-Wright Corporation	05/05/2009 Email from J.Grobbelaar to J.Ritter cc R.Best and J.Julius Re PI SDP simulator runs.
PROP00000253	5/1/2009	Curtis-Wright Corporation	05/01/2009 Email from J.Ritter to J.Grobbelaar cc R.Best and J.Julius Re PI SDP simulator runs discussing HELB event large break flow and predicted flooding effects on the turbine building and the component cooling system
PROP00000254	5/1/2009	Curtis-Wright Corporation	05/01/2009 Email from J.Grobbelaar to J.Ritter cc R.Best and J.Julius Re PI SDP simulator runs discussing HELP event large break flow and predicted flooding effects on the turbine building and the component cooling system
PROP00000255	5/1/2009	Curtis-Wright Corporation	05/01/2009 Email from J.Grobbelaar to J.Ritter cc R.Best and J.Julius Re PI SDP simulator runs discussing HELB event large break flow and predicted flooding effects on the turbine building and the component cooling system
PROP00000256	4/29/2009	Curtis-Wright Corporation	04/29/2009 Email from J.Ritter to J.Grobbelaar cc R.Best, D.Malek and J.Julius Re PI SDP simulator runs discussing HELB event large break flow and predicted flooding effects on the turbine building and the component cooling system
PROP00000257	4/29/2009	Curtis-Wright Corporation	04/29/2009 Email from J.Grobbelaar to J.Ritter cc R.Best and J.Julius Re PI SDP simulator runs discussing HELB event large break flow and predicted flooding effects on the turbine building and the component cooling system
PROP00000258	4/28/2009	Curtis-Wright Corporation	04/28/2009 Email from J.Ritter to J.Grobbelaar cc R.Best and J.Julius Re PI SDP simulator runs discussing HELB event large break flow and predicted flooding effects on the turbine building and the component cooling system
PROP00000259	4/28/2009	Curtis-Wright Corporation	04/28/2009 Email from J.Grobbelaar to J.Ritter cc R.Best and J.Julius Re PI SDP simulator runs discussing HELB event large break flow and predicted flooding effects on the turbine building and the component cooling system

Document Number	Date	Entity Claiming Protected Status	Description
PROP00000260	4/28/2009	Curtis-Wright Corporation	04/28/2009 Email from J.Julius to J.Ritter and J.Grobbelaar cc R.Best and K.Kohlhepp Re PI SDP simulator runs discussing HELB event large break flow and predicted flooding effects on the turbine building and the component cooling system
PROP00000261	4/27/2009	Curtis-Wright Corporation	04/27/2009 Email from J.Ritter to J.Grobbelaar and J.Julius cc R.Best Re PI SDP simulator runs discussing HELB event large break flow and predicted flooding effects on the turbine building and the component cooling system
PROP00000262	5/8/2009	Curtis-Wright Corporation	05/08/2009 Email from J.Ritter to J.Grobbelaar and R.Best re MAAP scenarios-analyses of the effects of tornado and HELB events.
PROP00000263	2/22/2009	Curtis-Wright Corporation	02/22/2009 Email from D.Malek to R.Best re RMU HEP discussion of valve closure and HELB event situations
PROP00000264	2/22/2009	Curtis-Wright Corporation	02/22/2009 Email from Robust to D.Malek re RMU HEP discussion of valve closure and HELB event situations
PROP00000265	5/8/2009	Curtiss-Wright Corporation	05/08/2009 Email from J.Ritter to J.Grobbelaar and R.Best re discussion of simulator case runs including some that include HELB conditions
PROP00000266	5/8/2009	Curtiss-Wright Corporation	05/08/2009 Email from J.Grobbelaar to J.Ritter and R.Best re HEP data updated to include tornado simulation/data
PROP00000267	5/8/2009	Curtiss-Wright Corporation	05/08/2009 Email from J.Grobbelaar to J.Ritter and R.Best re HEP data updated to include tornado simulation/data
PROP00000268	5/8/2009	Curtiss-Wright Corporation	05/08/2009 Email from J.Ritter to J.Grobbelaar and R.Best re HEP data updated to include tornado simulation/data
PROP00000269	5/8/2009	Curtiss-Wright Corporation	05/08/2009 Email from J.Ritter to J.Grobbelaar and R.Best re discussion and analysis or modeling of the effects tornadic and seismic events on the component cooling system.
PROP00000270	5/8/2009	Curtiss-Wright Corporation	05/08/2009 Email from J.Grobbelaar to J.Ritter and R.Best re HEP data updated to include tornado simulation/data
PROP00000271	5/8/2009	Curtiss-Wright Corporation	05/08/2009 Email from J.Grobbelaar to J.Ritter and R.Best re HEP data updated to include tornado simulation/data
PROP00000272	5/7/2009	Curtiss-Wright Corporation	05/08/2009 Email from J.Grobbelaar to J.Ritter and R.Best re HEP data updated to include tornado simulation/data

Document Number	Date	Entity Claiming Protected Status	Description
PROP00000273	5/7/2009	Curtiss-Wright Corporation	05/07/2009 Email from J.Grobbelaar to J.Ritter and R.Best re HEP data updated to include tornado event simulation/data
PROP00000274	5/7/2009	Curtiss-Wright Corporation	05/07/2009 Email from J.Ritter to J.Grobbelaar cc: R.Best re HEP data updated to include tornado simulation/data
PROP00000275	5/7/2009	Curtiss-Wright Corporation	05/07/2009 Email from J.Ritter to J.Grobbelaar cc: R.Best re HEP data updated to include tornado simulation/data
PROP00000276	5/7/2009	Curtiss-Wright Corporation	5/7/2009 Email from J. Grobbelaar to J. Ritter and R. Best re HEP data updated to include tornado simulation/data
PROP00000277	5/7/2009	Curtiss-Wright Corporation	5/7/2009 Email from J. Grobbelaar to J. Ritter and R. Best re HEP data updated to include tornado simulation/data
PROP00000278	6/18/2009	Curtiss Wright Corporation	Email from J. Ritter to J. Julius at Curtiss Wright, E. Kranz, and R. Rohrer re: Analysis for CC/HELB SDP
PROP00000279	6/17/2009	Curtiss Wright Corporation	Email from J. Ritter to J. Grobbelaar and J. Julius at Curtiss Wright, E. Krantz, and R. Rohrer re: Analysis for CC/HELB SDP
PROP00000280	6/15/2009	Curtiss Wright Corporation	Email from J. Grobbelaar at Curtiss Wright to J. Ritter, J. Julius, E. Kranz, and R. Rohrer re: Analysis for CC/HELB SDP
PROP00000281	2/27/2009	Curtiss Wright	2/27/2009 email from J. Ritter to K. Vincent re: Comments on CC/HELB HRA Report
PROP00000282	2/27/2009	Curtiss Wright	2/27/2009 email from J. Ritter to J. Grobbelaar re: Comments on CC/HELB Report
PROP00000283	2/26/2009	Curtiss Wright	Comments on CC/HELB HRA Report
PROP00000284	6/19/2009	Curtiss Wright Corporation	Email from J. Julius at Curtiss Wright to J. Ritter, E. Kranz, and R. Rohrer re: Analysis for CC/HELB SDP
PROP00000285	6/17/2009	Curtiss Wright Corporation	Email from J. Julius at Curtiss Wright to J. Ritter and E. Kranz re: Analysis for CC/HELB SDP
PROP00000286	5/15/2009	Curtiss Wright Corporation	Email from J. Ritter to J. Grobbelaar and J. Julius at Curtiss Wright and R. Best re: comments on SDP procedure
PROP00000287	5/20/2009	Curtiss Wright Corporation	Email from J. Ritter to J. Grobbelaar and J. Julius at Curtiss Wright, R. Best, and K. Kohlhepp re: comments on procedure
PROP00000288	5/15/2009	Curtiss Wright Corporation	Email from J. Ritter to J. Grobbelaar and J. Julius at Curtiss Wright, R. Best, and K. Kohlhepp re: comments on procedure

Document Number	Date	Entity Claiming Protected Status	Description
PROP00000289	5/14/2009	Curtiss Wright Corporation	Email from J. Ritter to J. Grobbelaar and J. Julius at Curtiss Wright and R. Best re: comments on procedure
PROP00000290	5/13/2009	Curtiss Wright Corporation	Email from J. Ritter to J. Grobbelaar and J. Julius at Curtiss Wright and R. Best re: comments on procedure
PROP00000291	5/13/2009	Curtiss Wright Corporation	Email from J. Ritter to J. Grobbelaar and J. Julius at Curtiss Wright and R. Best re: comments on procedure
PROP00000292	3/4/2009	Curtiss Wright Corporation	Email from J. Ritter to J. Grobbelaar at Curtiss Wright re: comments on CC/HELB HRA report
PROP00000293	3/1/2009	Curtiss Wright Corporation	Email from J. Ritter to J. Grobbelaar at Curtiss Wright re: comments on CC/HELB HRA report
PROP00000294	2/27/2009	Curtiss Wright Corporation	Email from J. Ritter to J. Grobbelaar at Curtiss Wright re: comments on CC/HELB HRA report
PROP00000295	2/27/2009	Curtiss Wright Corporation	Email from J. Ritter to J. Grobbelaar at Curtiss Wright re: comments on CC/HELB HRA report
PROP00000296	2/27/2009	Curtiss Wright Corporation	Email from J. Ritter to J. Grobbelaar at Curtiss Wright re: comments on CC/HELB HRA report
PROP00000297	2/27/2009	Curtiss Wright Corporation	Email from J. Ritter to J. Grobbelaar at Curtiss Wright re: comments on CC/HELB HRA report
PROP00000298	2/27/2009	Curtiss Wright Corporation	Email from J. Ritter to J. Grobbelaar at Curtiss Wright re: comments on CC/HELB HRA report
PROP00000299	2/26/2009	Curtiss Wright Corporation	Email from J. Ritter to J. Grobbelaar at Curtiss Wright and D. Malek re: comments on CC/HELB HRA report
PROP00000300	2/24/2009	Curtiss Wright Corporation	2/24/2009 Email from J. Ritter to J. Grobbelaar at Curtiss Wright and D. Malek re: comments on CC/HELB HRA report
PROP00000301	2/27/2009	Curtis Wright Corporation	Email from J. Ritter to T. Borgen, T. Strain, T. Bacon, and B. Slack re: comments on CC/HELB HRA report
PROP00000302	2/26/2009	Curtiss Wright Corporation	Email from J. Ritter to T. Bacon re: comments on CC/HELB HRA report
PROP00000303	2/27/2009	Curtiss Wright Corporation	Email from K. Vincent to J. Ritter re: comments on CC/HELB HRA report
PROP00000304	2/27/2009	Curtiss Wright Corporation	Email from K. Vincent to T. Borgen, T. Strain, T. Bacon, J. Ritter, and B. Slack re: comments on CC/HELB HRA report

Document Number	Date	Entity Claiming Protected Status	Description
PROP00000305	2/27/2009	Curtiss Wright Corporation	Email from T. Strain to T. Bacon, J. Ritter and T. Borgen re: comments on CC/HELB HRA report
PROP00000306	3/8/2009	Curtiss Wright Corporation	Email from D. Malek to J. Ritter re: comments on CC/HELB HRA report
PROP00000307	2/27/2009	Curtiss Wright Corporation	Email from T. Borgen to T. Strain, T. Bacon, J. Ritter, and K. Vincent re: comments on CC/HELB HRA report
PROP00000308	4/20/2009	Curtiss Wright Corporation	Email from C.J. Sansome to J. Ritter re: control room heat-up calculations
PROP00000309	4/20/2009	Curtiss Wright Corporation	Email from C.J. Sansome to J. Ritter re: control room heat-up calculations
PROP00000310	4/10/2009	Curtiss Wright Corporation	Email from C.J. Sansome to J. Ritter re: control room heat-up calculations
PROP00000311	4/9/2009	Curtiss Wright Corporation	Email from C.J. Sansome to J. Ritter, M. Brossart, J. Connors, and S. Ford re: control room heat-up calculations
PROP00000312	4/8/2009	Curtiss Wright Corporation	Email from C.J. Sansome to J. Ritter and M. Brossart re: control room heat-up calculations
PROP00000313	4/13/2009	Sciencetech/Curtiss-Wright	4/13/2009 Email from R. Rohrer to E. Krantz of Sciencetech and J. Ritter re modeling heat loads to control room
PROP00000314	2/17/2009	Curtiss-Wright	2/17/2009 Email from J. Ritter to J. Grobbelaar at Curtiss Wright re Operator actions following HELB
PROP00000315	2/19/2009	Excel Nuclear Energy	02/23/2009 Email from J Ritter to T Asmus re HEP analysis
PROP00000316	unknown	INPO	Radioactive Material Shipment Exceeds DOT Limits
PROP00000317	unknown	INPO	Radioactive Material Shipment Exceeds DOT Limits
PROP00000318	1987/1988	Westinghouse	Tables and Report from Jeumont Industries and Westinghouse re: O-ring testing
PROP00000319	10/13/2009	APS	Email from E. Sonn with APS to J. Connors & F. Lake w/ others cc'd re evaluation of RCE report
PROP00000320	10/9/2009	APS	Email from J. Connors to E. Sonn w/ F. Lake cc'd re RCE report
PROP00000321	10/8/2009	APS	Email from E. Sonn with APS to J. Connors w/ others at APS cc'd re Drafting of RAS and RCE reports

Document Number	Date	Entity Claiming Protected Status	Description
PROP00000322	10/6/2009	APS	Email from C. Lethgo to J. Connors w/ N. Adams cc'd re PVNGS contact information and drafting of RCE and RAS reports
PROP00000323	10/5/2009	APS	Email from E. Sonn with APS to J. Connors & S. Myers with others at APS cc'd re E&CF Chart
PROP00000324	10/2/2009	APS	Email from E. Sonn at APS to J. Connors and others at PINGP and APS, with others at APS cc'd re E&CF Charts
PROP00000325	10/2/2009	APS	Email from T. McCloud with APS to S. Myers & S. Scow with others cc'd re E&CF Chart drafting techniques
PROP00000326	3/21/2009	EPRI	EPRI Heat Stress Analysis for CA 01093329-04
PROP00000327	3/21/2009	EPRI	EPRI Heat Stress Analysis for CA 01093329-04
PROP00000328	8/4/2009	INPO	8/4/2009 INPO operating experience database report dated 3/28/2005 subject OE20291 - The Condensate Makeup Line to AFW Pumps is Vulnerable to a FW Line Break
PROP00000329	8/4/2009	INPO	8/4/2009 INPO operating experience database report dated 12/20/2006 subject OE23897 - update to OE20291 - The Condensate Makeup Line to AFW Pumps is Vulnerable to a FW Line Break - Kewaunee
PROP00000330	8/4/2009	INPO	8/4/2009 INPO operating experience database report dated 10/8/2008 subject OE27559 - Component Cooling (CC) piping adjacent to high energy line break (HELB) location in the turbine building (Prairie Island)
PROP00000331	8/4/2009	INPO	8/4/2009 High Energy Line Break Could Result in a Condition Outside Design Basis of Auxiliary Feedwater
PROP00000332	8/4/2009	INPO	8/4/2009 INPO operating experience database report dated 10-25-1999 subject Cook - Plant Event #36335 re: several plant locations discovered to be unprotected HELB areas
PROP00000333	undated	INPO	Memo captioned 1.0 Operating Experience, with section 1.0.2 entitled Industry Experience detailing several industry operating experiences closely linked to the issue of a HELB accident causing the failure of the Component Cooling system found by searching the INPO website.
PROP00000334	6/7/2004	Xcel	6/7/2004 Design Basis Document regarding determination about CC safety valve at PINGP.

Document Number	Date	Entity Claiming Protected Status	Description
PROP00000335	7/10/2010	Xcel	6/7/2004 Design Basis Document regarding determination about CC safety valve at PINGP.
PROP00000336	3/20/2009	IEPSON	3/20/2009 report from IEPSON regarding, inter alia, CC pumps at PINGP.
PROP00000337	6/20/2010	Xcel Energy	Internal Communication from M. Schimmel to PINGP Managers and Supervisors re: follow up to February directive re: site priorities
PROP00000338	2/15/2010	Xcel Energy	2/15/2010 Internal Communication from M. Schimmel to PINGP Plant Managers and Supervisors re: clarification of the station's priorities
PROP00000339	12/12/2008; 12/15/2008	WMG, Inc. and PINGP	12/16/2008 Email from C. Sweet to S. Derleth re consultants providing technical support for Radioactive Material Shipping Program
PROP00000340	1999	Performance Improvement International	Survey questions and results
PROP00000341	10/31/2005	Sargent & Lundy, LLC	Report on Component Cooling System SR/NSR Boundary
PROP00000342	n/a	INPO	Event Description re Potential for HELB in CC system

ATTACHMENT 3

**Northern States Power Co.
Prairie Island Nuclear Generating Plant, Units 1 and 2 License Renewal Proceeding
Docket Nos. 50-282-LR, 50-306-LR; ASLBP No. 08-871-01-LR
Privilege Log for NSPM's First Supplemental Disclosures Regarding Safety Culture Contention (June 30, 2010)**

Document Number	Document Type	Date	Author/Sender	Recipient	CC	Subject	Privilege Asserted¹
PRIV00000072	Report	8/17/2009	unknown	n/a	n/a	Action Request Report quoting INPO finding	SCA
PRIV00000073	Report	1/13/2010	unknown	n/a	n/a	Action Request Report: May 2003, INPO Evaluation	SCA

¹ SCA=Self-Critical Analysis Privilege