August 10, 2011

The Honorable Edward J. Markey Unites States House of Representatives Washington, D.C. 20515

Dear Congressman Markey:

On behalf of the U.S. Nuclear Regulatory Commission (NRC), I am responding to your letter of May 13, 2011, regarding a recent scram at the Pilgrim Nuclear Power Station and seeking information about all scrams in the U.S over the past 10 years. You also posed several questions arising out of recent events in Japan.

Enclosed with this letter are our responses to your inquiries. As discussed with your staff, our investigation of the recent scram at Pilgrim is still underway; therefore we are providing only a partial response to that information request at this time. When the investigation of the scram is complete, we will be able to provide a more complete response.

If you have any additional questions, please contact me or Ms. Rebecca Schmidt, Director of the Office of Congressional Affairs, at (301) 415-1776.

Sincerely,

/RA/

Gregory B. Jaczko

Enclosure: As stated

Responses to Questions from Representative Edward J. Markey Letter of May 13, 2011

1. Please fully describe the circumstances that led to the emergency shutdown at the Pilgrim nuclear power plant, and the results of your investigation thereof.

Reactor operators were restarting the reactor on May 10, 2011, after a planned outage. The reactor was declared critical, or capable of a self-sustaining nuclear chain reaction, just after noon that day. At this point, the reactor is generating no measurable amount of heat. Shortly thereafter, operators commenced the portion of the start-up process where heat begins to be generated by the reactor by withdrawing certain control rods, thus increasing the rate of nuclear fission. While attempting to establish a specified heat-up rate, the operators identified a higher than anticipated reactor heat-up rate, albeit still within the NRC licensed limit. In trying to manage the higher than anticipated heat-up rate, the operators made several manipulations of the control rods that reduced the heat generation rate of the reactor to a very low value. The operators later recommenced the withdrawal of control rods to again establish the specified reactor heat-up rate. However, during this manipulation of the control rods, the operators did not take into account the effects of a higher operating temperature and exceeded the predetermined setpoint established on two separate nuclear instruments (i.e., the Intermediate Power Range Monitors). This resulted in an automatic reactor scram, or shutdown, from a very low level of reactor power. After the reactor scram, all equipment operated as expected and the shutdown was completed safely. The event did not challenge any limits on the nuclear fuel.

In response to the potential operator performance issues raised by this event, an additional NRC inspector arrived on site on May 11 to assist the resident inspectors with their initial inspection efforts, and a Special Inspection Team (SIT) was dispatched to the site on May 16 to continue the NRC's review of this event. The NRC SIT is reviewing operator performance and decision-making prior to and during the reactor scram, Entergy Nuclear Operations' (Entergy or the licensee) response to the event, the lessons learned to date by the licensee, and the steps taken by Entergy to prevent this event from recurring. The SIT is currently awaiting Entergy's completion of its detailed root cause analysis of the event. Following the completion of the SIT's onsite review of the root cause report and additional inspection in this matter, an inspection report documenting the team's findings will be issued, typically within 45 days, and made available to the public.

2. For each of the last ten years, please provide me with a list of each "scram" that has occurred in the United States, including the name and location of the reactor, the date of the event, the cause of the scram, whether or not the NRC investigated the events, and if so, what the outcome of the investigation was (including any enforcement actions taken).

Attached is a list of all unplanned scrams since 2000. Additional information is provided for all scrams since 2007 for which a reactive inspection was conducted. In accordance with NRC's management directives and Inspection Manual Chapter 0309, events occurring at power reactor sites are analyzed to determine if they meet or exceed certain deterministic and risk criteria. When these deterministic and risk thresholds are exceeded, a reactive inspection team is dispatched to the site to gather additional information. All identified findings, regardless of their significance, have been entered into the licensee's corrective action program for resolution. Those findings identified as greater than very low safety significance (Green) will receive additional follow-up inspections.

3. Does the Commission concur that the events in Japan represent "new and significant" information regarding the potential duration, extent and circumstances of radiation releases that could accompany a catastrophic accident at or attack on a nuclear power plant? If not, why not, especially in light of the list of circumstances that have taken place in Japan that is included in Appendix A?

The Commission Near-Term Task Force has completed a review of the recent events in Japan. The report dated July 12, 2011, is publicly available. We will begin a longer-term review following the Commission's review of the Near-Term report, and as soon as the staff has sufficient technical information regarding the events in Japan.

4. Will the NRC require licensees to amend their Environmental Reports for all pending license or re-license applications in light of the requirements of NEPA to include any "new and significant" information regarding the environmental consequences of their proposed activities? If not, why not, and how can the Commission conclude that the absence of a requirement to do so is consistent with the legal requirements of NEPA?

The staff will make any recommendations to the Commission for changes to current requirements following completion of the planned longer-term review. Once those recommendations have been received, the Commission will determine what changes, if any, should be implemented.

5. Will the NRC require the development or utilization of new software that is capable of modeling the duration and extent of the radiation releases that have been experienced at Fukushima as part of its requirements for licensees to comply with NEPA and/or other Commission-mandated analysis? If not why not, since the software used is apparently unable to provide realistic information?

The quality of estimates from existing modeling software is going to vary depending upon the nature of the inputs. Our ability to model releases from the Fukushima site was significantly limited because of the large degree of uncertainty we had regarding plant conditions. We used a number of prudent and conservative estimates for various factors considered by our model. A similar modeling activity conducted for a U.S.-based facility would be expected to rely on substantial real-time information regarding meteorological conditions and actual release data, thus substantially increasing the certainty of the information produced.

Attachment 1: Unplanned Scrams 2000 - Present

Attachment 2: Scrams with Reactive Inspections 2007 - Present

Unplanned Scrams 2000 - Present

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PLANTHAN	EVENT.	DATE	CHET PE	ilon licensee	Ever	t Mumber Unit	MODE SCR	And Scram Cause Description	WOTES
								A RX TRIP OCCURRED ON LOW RX VESSEL WATER LEVEL FOLLOWING	
BRUNSWICK 1	01/12/03	325	2	3252003001	39504	OPERATE		A FEED PUMP TRIP. THE CAUSE WAS INSUFFICIENT LUBE OIL PRESSURE MARGIN ON THE RX FEED PUMP BEARING HEADER AFTER THE RUNNING FEEDPUMP LUBE OIL PUMP TRIPPED.	
								A MALFUNCTION OF THE ELECTRO-HYDRAULIC CONTROL SYSTEM CAUSED THE TURBINE BYPASS VALVES TO CYCLE. THE REACTOR	THE EXACT CAUSE OF THE REACTOR TRIP IS NOT CERTAIN.
								AUTOMATICALLY TRIPPED JUST PRIOR TO BEING MANUALLY TRIPPED. THE TRIP WAS PROBABLY DUE TO A SHORT IN THE MAIN	THE MOST PROBABLE CAUSE WAS A SHORT IN THE MAIN GENERATOR'S CURRENT MONITORING CIRCUIT RESULTING
BRUNSWICK 2	08/30/08	324	2	3242008001	44453	OPERATE		GENERATOR'S CURRENT MONITOR CIRCUIT. AN SRV SPURIOUSLY OPENED AND WOULD NOT SHUT. THE REACTOR	IN A TURBINE TRIP.
BRUNSWICK 2	11/09/08	324	2	3242008002	44647	OPERATE		WAS MANUALLY TRIPPED WHEN TORUS TEMPERATURE REACHED 109.8-DEGREES.	
BRUNSWICK 2	11/01/06	324	2	3242006001	42955	OPERATE	MAN	THE REACTOR WAS MANUALLY SCRAMMED FOLLOWING LOSS OF THE STARTUP AUXILIARY TRANSFORMER.	
BRUNSWICK 2	12/25/06	324	2	3242006003	43062	OPERATE		THE REACTOR TRIPPED UPON RECEIPT OF TWO CHANNELS OF OPRM NEUTRON MONITORING TRIP SIGNALS.	THE REACTOR SCRAMMED ON NEUTRON MONITORING SYSTEM OSCILLATION POWER RANGE MONITORS (OPRM) TRIP SIGNALS.
	12,23,00	01.				<u> </u>		DURING STARTUP AT 1% POWER, THE REACTOR WAS MANUALLY TRIPPED DUE TO HIGH CONDUCTIVITY IN THE CONDENSER. THE	
BRUNSWICK 2	11/11/06	324	2	3242006002	42986	STARTUP		CAUSE OF THE HIGH CONDUCTIVITY WAS LEAKING TUBES DUE TO MISSING TUBE PLUGS.	
								A RX SCRAM OCCURRED ON LOW RX WATER LEVEL AFTER THE ONLY OPERATING FEEDPUMP TRIPPED ON LOW SUCTION PRESSURE	
								DURING POWER ASCENSION TESTING. THE CAUSE WAS NO PROCEDURAL GUIDANCE EXISTED FOR LIMITING CONDENSATE	
BRUNSWICK 2	04/09/05	324	2	3242005002	41582	OPERATE		SYSTEM FLOW RATE DURING THE TESTING. A RX SCRAM OCCURRED ON AN MSIV CLOSURE AFTER AN	
								ELECTROHYDRAULIC CONTROL MALFUNCTION CAUSED THE MAIN TURBINE BYPASS VALVES TO OPEN. THE CAUSE WAS AN	
BRUNSWICK 2	04/04/03	324	2	3242003003	39733	OPERATE		INTERMITTENT ERROR SIGNAL FROM AN EHC CARD THAT WAS IMPROPERLY ENGAGED IN ITS HARDWARE SLOT.	
								A TURBINE/RX TRIP OCCURRED ON LOSS OF EXCITATION. THE CAUSE WAS FAILURE OF THE GENERATOR EXCITER INNER COLLECTOR RING	
BRUNSWICK 2	11/04/03	324	2	3242003004	40297	OPERATE		AND BRUSH HOLDERS WHICH RESULTED FROM A FABRICATION DEFICIENCY AT INITIAL INSTALLATION.	
								THE RX WAS MANUALLY SCRAMMED FOLLOWING A TURBINE EHC SYSTEM FAILURE. THE CAUSE WAS AN INTERMITTENT ELECTRICAL	
BRUNSWICK 2	02/23/01	324	2	3242001001	37777	OPERATE	MAN	CONNECTION THAT RESULTED IN A FALSE HIGH TURBINE SPEED SIGNAL AND TURBINE TRIP.	
								A TURBINE TRIP/RX SCRAM OCCURRED FOLLOWING A MAIN	
								TRANSFORMER FAULT. THE TRANSFORMER FAULT RESULTED FROM A LOSS OF COOLING. THE BREAKER SUPPLYING POWER TO THE	
BRUNSWICK 2	09/22/00	324	2	3242000002	37364	OPERATE		COOLING COMPONENTS TRIPPED FOR UNKNOWN REASONS. THE RX TRIPPED FOLLOWING A MAIN TURBINE TRIP. THE TURBINE	
								TRIP WAS CAUSED BY A POWER LOAD UNBALANCED SIGNAL DUE TO A NEUTRAL OVER VOLTAGE CONDITION. THE CAUSE OF THE TRIP	
BROWNS FERRY 1	02/18/09	259	2	2592009001	44860	OPERATE	AUTO	WAS A GROUND CAUSED BY WATER ENTRAINED IN THE ISOPHASE BUS DUCT COOLING SYSTEM.	
DD 0.4.040 =====	07/2-/	2=-	4	250200555	4005	0055:		THE REACTOR WAS MANUALLY TRIPPED DURING STARTUP DUE TO AN OIL LEAK IN THE MAIN TURBINE ELECTRO-HYDRAULIC CONTROL	
BROWNS FERRY 1	05/24/07	259	2	2592007002	43381	OPERATE	MAN	SYSTEM.	

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					70	A MUIT		Scram Cause Description	
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PLANT WANT	EVENT	DATE	<u> </u>	ON See	Ene	* Motifie	MODE SCR	M Cause	6
PLAN	EVERY	\00°	CHET PE	310M Licensee	Eve	nt Just	/ 50	Scram Co	Martes
								THE REACTOR TRIPPED FOLLOWING A TURBINE TRIP. THE TURBINE	
								TRIPPED DUE TO HIGH LEVEL IN A MOISTURE SEPARATOR DRAIN TANK. THE ROOT CAUSE IS THE SIZING OF THE MOISTURE SEPARATOR	
BROWNS FERRY 1	06/09/07	259	2	2592007005	43414	OPERATE	AUTO	LEVEL CONTROL DUMP VALVE.	
								THE REACTOR CORAL MARK RULE TO AN ARRANTED RULE TO THE	
								THE REACTOR SCRAMMED DUE TO AN APRM TRIP SIGNAL. THE CAUSE WAS THE RECIRCULATION SYSTEM FLOW TRANSMITTER	
								SENSING LINE BECOMING SEPARATED, GIVING A LOW FLOW SIGNAL	
BROWNS FERRY 1	08/11/07	259	2	2592007007	43560	OPERATE	AUTO	TO THE NEUTRON MONITORING SYSTEM.	
								A REACTOR TRIP WAS MANUALLY INITIATED DUE TO AN INCREASING	
								LEAK IN THE TURBINE GENERATOR'S ELECTRO-HYDRAULIC CONTROL	
								SYSTEM. THE CAUSE WAS A THROUGH WALL LEAK DUE TO FRETTING	
BROWNS FERRY 1	09/03/07	259	2	2592007008	43613	OPERATE		OF THE EHC TUBING AGAINST A STEEL SUPPORT MEMBER.	
								AN AUTOMATIC REACTOR SCRAM OCCURRED FOLLOWING A TURBINE TRIP. THE CAUSE OF THE TURBINE TRIP WAS A FALSE HIGH	
BROWNS FERRY 1	10/12/07	259	2	2592007009	43718	OPERATE	AUTO	MOISTURE SEPARATOR LEVEL SIGNAL.	
								DURING RPS BUS TRANSFER FOR MAINTENANCE, THE MSIVS CLOSED,	
DD 014/416 FEDDY 2	06/00/40	260	_	2502040000	45000	0050475		RESULTING IN A REACTOR SCRAM. THE CAUSE OF THE MSIV CLOSURE	
BROWNS FERRY 2	06/09/10	260		2602010003	45990	OPERATE	AUTO	WAS INDETERMINATE.	
								THE REACTOR WAS MANUALLY TRIPPED DUE TO LOSS OF STATOR	
								WATER COOLING TO THE MAIN GENERATOR. THE CAUSE OF THE LOSS	
DD OWNS FEDDY 2	02/46/00	260	_	2602000004	44054	0050475		OF STATOR WATER COOLING WAS THE SINGLE-POINT FAILURE OF	
BROWNS FERRY 2	02/16/09	260	2	2602009001	44854	OPERATE	IVIAN	THE TEMPERATURE CONTROL VALVE.	
								THE REACTOR WAS MANUALLY TRIPPED DUE RAPIDLY LOWERING	
								REACTOR VESSEL LEVEL CAUSED BY LOSS OF ONE OF THE TWO	
								AVAILABLE CONDENSATE BOOSTER PUMPS. WITH ONE PUMP UNAVAILABLE FOR MAINTENANCE, A SECOND PUMP TRIPPED WHILE	
BROWNS FERRY 2	09/29/09	260	2	2602009007	45391	OPERATE	MAN	REMOVING A FEEDWATER PUMP FROM SERVICE.	
								THE REACTOR TRIPPED FOLLOWING A TURBINE-GENERATOR LOAD	
BROWNS FERRY 2	10/04/08	260	2	2602008001	44540	OPERATE	AUTO	REJECTION SIGNAL. THE CAUSE OF THE LOAD REJECTION SIGNAL WAS A FAILED RELAY IN THE TURBINE GENERATOR VOLTAGE REGULATOR.	
	20,0.,00		_		1.0.0	0. 1	1.0.0		
								THE REACTOR SCRAMMED DUE TO A TURBINE TRIP. THE TURBINE	
								TRIPPED DUE TO THE MAIN 500KV OUTPUT BREAKER OPENING. THE CAUSE OF THE GENERATOR LOAD REJECTION WAS A FAILED RELAY IN	
BROWNS FERRY 2	01/11/07	260	2	2602007001	43092	OPERATE		THE MAIN GENERATOR VOLTAGE REGULATOR.	
								A SCRAM OCCURRED ON LOW RX WATER LEVEL FOLLOWING THE	
								LOSS OF THE "2C" AND "2B" RX FEED PUMPS. THE CAUSE WAS DISCONNECTED CONTROL VALVE LINKAGE FOR ONE PUMP AND A	
BROWNS FERRY 2	08/05/05	260	2	2602005007	41896	OPERATE	AUTO	THRUST BEARING WEAR DETECTOR TRIP ON THE OTHER PUMP.	
								A RX SCRAM OCCURRED ON A SPURIOUS TURBINE GENERATOR LOAD	
								REJECT SIGNAL. THE CAUSE WAS AN INADEQUATE PROCEDURE IGOVERNING TRANSFER OF A 120 VAC UPS BUS AND A CONTRIBUTING	
								FACTOR WAS AN INADEQUATE EHC SYSTEM SOFTWARE	
BROWNS FERRY 2	07/08/04	260	2	2602004001	40858	OPERATE	AUTO	CONFIGURATION.	
								A SCRAM OCCURRED ON A SPURIOUS UPSCALE TRIP ON THE	
BROWNS FERRY 2	07/10/04	260	2	2602004002		STARTUD		INTERMEDIATE RANGE MONITORS. THE CAUSE WAS ELECTRICAL NOISE GENERATED BY MOVEMENT OF IRM "C".	
PIVO AA IAO I FIVIVI 7	07/10/04	200		2002004002	<u> </u>	SIGNIOF	7010	INOISE SEINENATED DI INIOVENIENT OF INIVI C.	

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P. Lan't Mank	EVENT	DATE	CHET REC	idon licenses	Event to	A Muriber Just	and Sch	AM Scram Cause Description	Mortes
								THE RX WAS MANUALLY SCRAMMED FOLLOWING A TRIP OF THE '2B' RX RECIRCULATION PUMP, THE "2A" RX RECIRCULATION PUMP HAD	
DDOWALC FEDDY 2	02/26/02	260	2	202002002	20702	ODEDATE	NAANI	TRIPPED EARLIER IN THE SHIFT. THE CAUSE WAS SPIKING IN THE NEUTRAL VOLTAGE SIGNALS IN THE VARIABLE FREQUENCY DRIVES	
BROWNS FERRY 2	03/26/03	260	2	2602003003	39702	OPERATE	+	FOR UNKNOWN REASONS. A TURBINE TRIP/RX SCRAM OCCURRED ON A MAIN GENERATOR TRIP	
								RESULTING FROM A GROUND FAULT ON A MAIN BANK	
								TRANSFORMER BUSHING. THE CAUSE WAS THERMAL DEGRADATION OF THE PAPER INSULATION OF THE BUSHING'S INTERNAL	
BROWNS FERRY 2	07/27/02	260	2	2602002002	39100	OPERATE	_	CONDENSER.	
								A TURBINE/RX TRIP OCCURRED ON AN ERRONEOUS POWER-LOAD UNBALANCE SIGNAL DURING COMBINED INTERMEDIATE VALVE	
								TESTING. THE SIGNAL RESULTED FROM AN ERROR IN THE EHC	
BROWNS FERRY 2	07/25/01	260	2	2602001003	38171	OPERATE	AUTO	CONTROLLER SOFTWARE. THE REACTOR WAS MANUALLY TRIPPED DUE TO HIGH VIBRATIONS	
								ON THE GENERATOR EXCITER INBOARD AND OUTBOARD JOURNAL	
BROWNS FERRY 3	12/26/10	296	2	2962010004	46511	OPERATE	MAN	BEARINGS. THE REACTOR WAS MANUALLY TRIPPED FOLLOWING THE LOSS OF 2	
								OF THE 3 CONDENSATE BOOSTER PUMPS. THE PUMPS TRIPPED ON	
								LOW SUCTION PRESSURE. THE CAUSE OF THE LOW CONDENSATE SUCTION PRESSURE WAS FAILURE OF THE CONDENSATE	
BROWNS FERRY 3	08/24/09	296	2	2962009001	45290	OPERATE		DEMINERALIZERS LOGIC CONTROL.	
								LOWERING CONDENSATE FLOW RESULTED IN LOWERING FEEDWATER FLOW, CAUSING THE REACTOR TO SCRAM ON LOW	
								REACTOR WATER LEVEL. THE CAUSE OF THE LOWERING	
BROWNS FERRY 3	02/09/07	296	2	2962007001	/2150	ODERATE	ALITO	CONDENSATE FLOW WAS LOSS OF THE CONDENSATE DEMINERALIZER DUE TO PERSONNEL ERROR.	
BROWINS FERRY S	02/09/07	290		2902007001	43139	OPERATE	AUTU	DEMINERALIZER DOE TO PERSONNEL ERROR.	
								THE REACTOR TRIPPED FOLLOWING A MAIN GENERATOR LOAD REJECTION. THE CAUSE OF THE LOAD REJECTION WAS A SPURIOUS	
BROWNS FERRY 3	12/31/07	296	2	2962007005	43878	OPERATE	AUTO	OPERATION OF THE GENERATOR PHASE DISCORDANCE RELAY.	
								THE REACTOR WAS MANUALLY SCRAMMED FOLLOWING THE TRIP OF	
								BOTH REACTOR RECIRCULATION PUMPS. THE CAUSE OF THE PUMPS TRIPPING WAS A MALFUNCTION OF THE VARIABLE FREQUENCY	
BROWNS FERRY 3	08/19/06	296	2	2962006002	42787	OPERATE	MAN	DRIVE MICROPROCESSORS.	
								THE REACTOR WAS MANUALLY TRIPPED AT 78% POWER DUE TO AN OIL LEAK IN THE #2 MAIN TURBINE CONTROL VALVE HYDRAULIC	
BROWNS FERRY 3	08/29/06	296	2	2962006003	42813	OPERATE			
								A RX SCRAM OCCURRED ON LOAD REJECT WHEN THE OUTPUT BREAKER TRIPPED DURING A RESTORATION FROM SWITCHYARD	
								MAINTENANCE. A SWITCHYARD DISCONNECT DEVICE WAS INSERTED	
BROWNS FERRY 3	02/11/05	296	2	2962005001	41404	OPERATE	AUTO	OUT OF SEQUENCE FROM THE INSTRUCTIONS GIVEN IN A SWITCHING ORDER.	
	, , , , , ,								
								A TURBINE TRIP/RX SCRAM OCCURRED ON LOW MAIN CONDENSER VACUUM DURING A MAINTENANCE ACTIVITY TO REPAIR IN PLACE A	
								SECONDARY PLANT HIGH PRESSURE FEEDWATER HEATER LEVEL	
BROWNS FERRY 3	09/17/05	296	2	2962005002	41997	OPERATE		CONTROL VALVE. AN AIR INLEAKAGE PATH WAS CREATED DURING THE MAINTENANCE ACTIVITY.	

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								A TURBINE/RX TRIP OCCURRED DURING AN ELECTRICAL	
								DISTURBANCE WHEN A SWITCHYARD BREAKER WAS CLOSED ONTO A	
								GROUNDED TRANSMISSION LINE. THE CAUSE WAS FAILURE TO	
DDOMAIC FEDDY 2	40/04/05	206	2	2062005002	42402	0050475		ENSURE THE GROUNDING SWITCHES ON THE TRANSMISSION LINE	
BROWNS FERRY 3	10/31/05	296	2	2962005003	42102	OPERATE	_	WERE OPENED PRIOR TO THE ACTIVITY.	
BROWNS FERRY 3	11/23/04	296	2	2962004002	11210	ODERATE		A TURBINE TRIP/RX SCRAM OCCURRED AS THE RESULT OF A GRID DISTURBANCE CAUSED BY A LIGHTNING STRIKE.	
DIOWNS I LINIT 3	11/23/04	230	۷	2302004002	41213	OFLINATE	-	A RX SCRAM OCCURRED ON LOW RX VESSEL WATER LEVEL	
								FOLLOWING A MARKED SPEED REDUCTION OF A RX FEED PUMP. THE	
								CAUSE WAS A CLOGGED FEED PUMP CONTROL OIL FILTER. AFTER	
								RECEIVING A HIGH DP ALARM, OPERATORS DELAYED SWAPPING THE	
BROWNS FERRY 3	04/15/00	296	2	2962000001	36892	OPERATE		FILTER WITH A CLEAN ONE.	
								A RX SCRAM OCCURRED ON AN INVALID LOW RX WATER LEVEL	
								SIGNAL GENERATED WHILE RETURNING A FEEDWATER LEVEL	
								TRANSMITTER TO SERVICE. THE CAUSE WAS A LACK OF SPECIFIC	
								PROCEDURALIZED VALVING SEQUENCES FOR THE LEVEL	
BROWNS FERRY 3	05/24/00	296	2	2962000005	37027	OPERATE		TRANSMITTER.	
								THE REACTOR TRIPPED FOLLOWING A TURBINE GENERATOR TRIP.	
								THE TURBINE TRIPPED DUE TO LOSS OF CONDENSER VACUUM	
								CAUSED BY THE LOSS OF THE ELECTRICAL BUS SUPPLYING THE CIRC	
20 A I D W O O D 1	00/10/10	456	2	4562010001	16170	ODEDATE		WATER PUMPS. THE BUS WAS LOST WHEN WATER OVERFLOWED	
BRAIDWOOD 1	08/16/10	456	3	4562010001	46178	OPERATE	AUTO	FROM THE AFW STANDPIPES.	
								THE REACTOR TRIPPED FOLLOWING A TURBINE TRIP. THE TURBINE	
								TRIP WAS CAUSED WHEN TESTING A S/G WATER LEVEL CHANNEL.	
								ONE CHANNEL OF THE SSPS LOGIC WAS FAILED, AND WHEN THE	
BRAIDWOOD 1	09/20/10	456	3	4562010004	46262	OPERATE		OTHER CHANNEL WAS PLACED IN TEST, A TURBINE TRIP OCCURRED.	
	00/20/20				1			A REACTOR COOLANT PUMP BREAKER TRIPPED DURING A	
								THUNDERSTORM DUE TO A GRID DISTURBANCE ON A 345 KV	
								TRANSMISSION LINE. THIS RESULTED IN A REACTOR COOLANT PUMP	
BRAIDWOOD 1	06/27/07	456	3	4562007001	43449	OPERATE	AUTO	TRIP AND SUBSEQUENT REACTOR TRIP.	
								THE REACTOR TRIPPED FOLLOWING A TRIP OF THE TURBINE	
								GENERATOR. THE TURBINE GENERATOR TRIPPED DUE TO A	
								GENERATOR LOCKOUT RELAY ACTUATION. THE LOCKOUT RELAY	
								ACTUATION WAS CAUSED BY A PHASE-TO-GROUND FAULT IN THE	
BRAIDWOOD 2	08/16/10	457	3	4572010003	46178	OPERATE	AUTO	ISOLATED PHASE (ISOPHASE) BUS DUCT.	
								THE REACTOR TRIPPER WITH E REPEORATING REACTOR TRIP	
								THE REACTOR TRIPPED WHILE PERFORMING REACTOR TRIP	
								INSTRUMENTATION CALIBRATION. WITH THE "B" TRAIN OF PZR PRESSURE IN TEST, A SPIKE OCCURRED ON THE "D" TRAIN OF RCS	SCRAMMED ON HIGH TEMPERATURE DELTA
BRAIDWOOD 2	04/24/09	457	2	<u>4</u> 572000001	 45017	OPERATE		·	TEMPERATURE SIGNAL SPIKE.
STAID VV OOD Z	07/44/03	437	3	7372003001	7301/	OI LIVATE	_	A FAULT ON THE SAT SUDDEN PRESSURE RELAY TRIPPED THE	TEM ENATORE SIGNAL STIRE.
								TRANSFORMER. A SLOW AUTOMATIC BUS TRANSFER RESULTED IN A	
								REACTOR COOLANT PUMP TRIPPING ON OVER CURRENT. THIS	
BRAIDWOOD 2	07/30/09	457	3	4572009002	45238	OPERATE		RESULTED IN A REACTOR TRIP.	
								THE REACTOR TRIPPED FOLLOWING A TURBINE TRIP. THE TURBINE	
								TRIP WAS CAUSED BY ACTUATION OF THE UNIT AUXILIARY	
								TRANSFORMER'S SUDDEN PRESSURE RELAY. THE DIRECT CAUSE WAS	
BRAIDWOOD 2	12/27/08	457	3	4572008002	44743	OPERATE	AUTO	A PHASE-TO-PHASE MOTOR FAULT ON A HEATER DRAIN PUMP.	

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PLA	ENE	\2000 \2000	DI RE	licer	Ene.	JANI!	MC SCR	Scroot.	NOTES
								THE REACTOR WAS MANUALLY TRIPPED DUE TO LOWERING CONDENSER VACUUM FOLLOWING THE TRIP OF TWO CIRC WATER PUMPS. THE CAUSE OF THE CIRC WATER PUMP TRIPS WAS A FALSE	
BRAIDWOOD 2	08/23/07	457	3	4572007001	43590	OPERATE		HIGH DIFFERENTIAL LEVEL INDICATION ACROSS THE TRAVELING SCREENS.	
BRAIDWOOD 2	03/28/05	457	3	4572005002	41535	OPERATE		A TURBINE/RX TRIP OCCURRED DUE TO GENERATOR PROTECTIVE CIRCUITRY. THE CAUSE WAS A FAILED MAIN GENERATOR "C" PHASE BUSHING RESULTING FROM AN INADEQUATE REDESIGN OF THE BUSHING IN THE 2000 TIME PERIOD.	
BRAIDWOOD 2	12/22/04	457	3	4572004002	41280	OPERATE		A RX TRIP OCCURRED ON LOW SG WATER LEVEL FOLLOWING THE FAILURE OF A STEAM FLOW ISOLATION CARD IN THE SG WATER LEVEL CONTROL SYSTEM.	
BIAIDWOOD 2	12/22/04	437	3	4372004002	41200	OFERATE		A RX TRIP OCCURRED ON LOW SG LEVEL DURING WEEKLY FEEDWATER SURVEILLANCE OF THE HP STOP VALVE. THE CAUSE WAS A CASCADING LOSS OF THE "2C" AND "2B" FEEDWATER PUMPS	
BRAIDWOOD 2	12/03/03	457	3	4572003004	40370	OPERATE		CAUSED BY A LACK OF PREVENTIVE MAINTENANCE. A RX TRIP OCCURRED ON LOW RX COOLANT FLOW WHEN A RCP LOST	
DDAIDWOOD 3	05/40/04	457	2	4572004004	20042	ODEDATE		POWER DURING AN ELECTRICAL PLANT MANIPULATION. PERSONNEL OPENED THE WRONG POTENTIAL TRANSFORMER FUSE DOOR,	
BRAIDWOOD 2	05/19/01	457	3	4572001001	38012	OPERATE		DEENERGIZING THE RCP'S 6.9 KV BUS. A RX TRIP OCCURRED ON HIGH NEGATIVE FLUX RATE FOLLOWING A	
BRAIDWOOD 2	04/15/00	457	3	4572000002	36893	OPERATE	AUTO	DROPPED ROD. A CONTROL BANK STATIONARY GRIPPER FUSE WAS FOUND BLOWN, WHICH WAS BELIEVED TO BE AN ISOLATED FAILURE. AN AUTOMATIC REACTOR TRIP OCCURRED FOLLOWING THE	
								SPURIOUS OPENING OF THE B REACTOR TRIP BREAKER. THE REACTOR TRIP BREAKER OPENED DUE TO FAILURE OF THE UNIVERSAL LOGIC CARD OUTPUT GATE IN THE SOLID STATE PROTECTION	
BEAVER VALLEY 1	09/07/06	334	1	3342006004	42834	OPERATE	AUTO		
								WAS CLOSURE OF THE "C" MSIV WHEN ITS WEST CYLINDER RUPTURE DISK WAS DAMAGED BY HUMAN ERROR DURING A MAINTENANCE	
BEAVER VALLEY 1	02/24/03	334	1	3342003001	39616	OPERATE		ACTIVITY AND FAILED. A TURBINE/RX TRIP OCCURRED WHEN TECHNICIANS CONNECTED A	
BEAVER VALLEY 1	11/13/03	334	1	3342003007	40320	OPERATE		DIGITAL VOLT METER ACROSS THE INCORRECT TERMINALS DURING TESTING IN THE RX TRIP BREAKER SWITCHGEAR CABINET.	
BEAVER VALLEY 1	11/11/02	334	1		39363	OPERATE		THE RX WAS MANUALLY TRIPPED DUE TO A TURBINE MOTORING CONDITION ALARM. THE LICENSEE IS INVESTIGATING THE CAUSE.	
								THE RX WAS MANUALLY TRIPPED WHEN DEGRADED INSTRUMENT AIR PRESSURE RESULTED IN THE LOSS OF COOLING WATER TO THE REACTOR COOLANT PUMPS. THE CAUSE WAS AGING/CYCLIC FATIGUE	
BEAVER VALLEY 1	06/22/01	334	1	3342001001	38086	OPERATE		FAILURE OF AN INSTRUMENT AIR SYSTEM BLOWDOWN VALVE. A RX TRIP OCCURRED ON LOW SG WATER LEVEL AFTER A FEEDWATER	
BEAVER VALLEY 1	11/06/01	334	1	3342001003	38472	OPERATE		CONTROL VALVE FAILED CLOSED. THE CAUSE WAS A FAILED DIODE IN THE PROCESS RACK MODULE THAT CONTROLS THE VALVE ACTUATOR.	

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PL	E _M	1) / RE	lice	Frie] IIA	/ ^ç C	THE RX WAS MANUALLY TRIPPED ON DECREASING STATION	, NO
								INSTRUMENT AIR PRESSURE. ONE COMPRESSOR WAS OUT OF	
								SERVICE FOR MAINTENANCE WHEN THE OTHER COMPRESSOR TRIPPED DUE TO A BLOWN CONTROL CIRCUIT FUSE. THE CAUSE WAS	
BEAVER VALLEY 1	12/07/01	334	1	3342001004	38548	OPERATE	MAN	A FAILURE OF THE STATION WORK PROCESS.	
								THE RX WAS MANUALLY TRIPPED DUE TO DEGRADING CONDENSER VACUUM. THE CAUSE WAS INADEQUATE STEAM SUPPLY TO THE AIR	
								EJECTORS DUE TO A MALFUNCTIONING AUXILIARY STEAM PRESSURE	
BEAVER VALLEY 1	04/17/00	334	1	3342000005	36901	OPERATE	MAN	CONTROL VALVE.	
								A TURBINE TRIP/RX TRIP OCCURRED FOLLOWING A MOMENTARY	
								LOSS OF DC CONTROL POWER TO THE ANALOG ELECTROHYDRAULIC (AEH) CONTROL SYSTEM ASSOCIATED WITH THE MAIN TURBINE. THE	
	07/05/00	224	1	2242000006	27145	ODEDATE		CAUSE WAS A FAULT IN THE AEH CONTROL CABINET BUT THE	
BEAVER VALLEY 1	07/05/00	334	1	3342000006	3/145	OPERATE	AUTU	SPECIFIC CAUSE IS UNKNOWN. DURING STARTUP, A LEAK WAS DISCOVERED ON AN AFW	
								CONTAINMENT PENETRATION LINE. A SHUTDOWN WAS COMMENCED. THE REACTOR WAS MANUALLY TRIPPED WHEN STEAM	
								GENERATOR 21A LEVEL DROPPED TO THE MANUAL TRIP CRITERIA OF	
BEAVER VALLEY 2	04/10/11	412	1		46744	OPERATE	MAN	25%. A RX TRIP OCCURRED ON A GENERATOR TRIP. THIS WAS CAUSED BY	
								IMPROPER ASSEMBLY OF THE GENERATOR FIELD POLE SUPPORT	
BEAVER VALLEY 2	04/02/06	412	1	4122006001	42467	OPERATE	AUTO	BLOCKS. A RX TRIP OCCURRED ON LOW SG WATER LEVEL WHILE DECREASING	
								POWER FOR HEATER DRAIN PUMP REPAIRS. THE "B" MAIN	
								FEEDWATER REGULATING VALVE DID NOT RESPOND PROPERLY. THE CAUSE WAS A FAILED CARD IN THE FEEDWATER SG WATER LEVEL	
BEAVER VALLEY 2	10/14/03	412	1	4122003003	40247	OPERATE	AUTO	CONTROL SYSTEM.	
								A RX TRIP OCCURRED ON DECREASING SG WATER LEVELS	
								FOLLOWING A CONDENSATE PUMP TRIP AND SUBSEQUENT	
BEAVER VALLEY 2	03/17/01	412	1	4122001001	37845	OPERATE	AUTO	FEEDWATER PUMP TRIP. THE CAUSE WAS A FAILED ELECTRICAL JOINT ON ONE PHASE OF THE CONDENSATE PUMP POWER LEAD.	
	, ,								
								A RX TRIP OCCURRED ON OVERTEMPERATURE DELTA-TEMPERATURE WHEN THE TURBINE GOVERNOR VALVES FAILED CLOSED. THE CAUSE	
DVD ON 4	40/45/02	454	2	45 42002002	20206	0050475	41170		FEEDWATER ISOLATED AND AFW WAS MANUALLY
BYRON 1	10/15/02	454	3	4542002003	39286	OPERATE	AUTO	DIAGNOSED. THIS IS THE FIRST OF TWO EVENTS. A RX TRIP OCCURRED ON OVERTEMPERATURE DELTA-TEMPERATURE	STARTED.
								WHEN THE TURBINE GOVERNOR VALVES FAILED CLOSED. THE CAUSE	
BYRON 1	11/07/02	454	3	4542002003	39353	OPERATE	AUTO	WAS A FAILED DEHC SYSTEM CARD. THIS IS THE SECOND OF TWO SIMILAR EVENTS.	
								A RX TRIP OCCURRED ON LOW SG WATER LEVEL AFTER THE	
								CONDENSATE/CONDENSATE BOOSTER PUMP TRIPPED ON OVER	
BYRON 2	10/19/05	455	3	4552005001	42063	OPERATE	AUTO	CURRENT. THE CAUSE WAS A STATOR WINDING FAILURE. THE RX WAS MANUALLY TRIPPED DUE TO DECREASING SG WATER	
								LEVEL AFTER A FEEDWATER REGULATING VALVE FAILED. THE CAUSE	
BYRON 2	06/26/01	455	3	4552001002	38094	OPERATE	MAN	WAS AN INCORRECTLY INSTALLED RETAINING CLIP IN THE VALVE POSITIONER.	
	20,20,01	.55		1302001002	23331				
								A TURBINE TRIP/RX TRIP OCCURRED FOLLOWING AN OFFSITE POWER LINE FAULT. A FAILED CIRCUIT BREAKER LOAD REJECTION CONTACT	
BYRON 2	01/13/00	455	3	4552000001	36585	OPERATE	AUTO	PREVENTED THE FAULT FROM BEING ISOLATED IN THE SWITCHYARD.	

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				///	- po	A MUI.		oscription.	
and a second	, t	NE.			Event Re	rification	-Ok	ise late	
PLANT MAN	event.	Or DC	SCHET PER	310M Licensee	Eve	nt Motification	MODE SC	AAM Scram Cause Description	MOTES
								A RX TRIP OCCURRED ON LOW SG WATER LEVEL. A CIRCUIT CARD	
								FAILURE IN THE MAIN FEEDWATER REGULATING VALVE CIRCUITRY AND INAPPROPRIATE OPERATOR RESPONSE CAUSED THE VALVE TO	
BYRON 2	07/26/00	455	3	4552000002	37187	OPERATE	AUTO		
								THE REACTOR WAS MANUALLY TRIPPED FOLLOWING A MAIN FEED	
CALLAWAY	11/11/08	483	4	4832008005	44652	OPERATE	MAN	PUMP TRIP. THE FEED PUMP TRIPPED ON LOW LUBE OIL PRESSURE.	
								A FEEDWATER TRANSIENT CAUSED BY A CONDENSATE PUMP TRIP	
								RESULTED IN THE REACTOR TRIPPING ON HIGH STEAM GENERATOR LEVEL. THE CONDENSATE PUMP TRIPPED DUE TO AN ELECTRICAL	
CALLAWAY	12/11/08	483	4	4832008006	44714	OPERATE	AUTO	GROUND FAULT.	
								THE REACTOR WAS MANUALLY TRIPPED WHEN A CONDENSATE PUMP DEVELOPED A MOTOR GROUND FAULT. THE THIRD	
CALLAWAY	12/14/08	483	4	4832008008	44719	OPERATE	MAN	CONDENSATE PUMP WAS NOT AVAILABLE AT THE TIME.	
								WHILE REDUCING POWER FROM 100% DUE TO A CONDENSER TUBE	
								LEAK, THE REACTOR WAS TRIPPED AT 30% POWER DUE TO	
								INADEQUATE FEEDWATER CONTROL. LEVEL WAS INCREASING WITH BOTH THE MFRV AND THE BYPASS VALVE CLOSED. AN I/P POSITIONER	
CALLAWAY	03/09/07	483	4	4832007002	43227	OPERATE	MAN	ON THE MFRV HAD FAILED.	
								THE RX WAS MANUALLY TRIPPED ON HIGH SG WATER LEVEL	
CALLAWAY	05/12/06	483	4	4832006004	42571	OPERATE	MAN	FOLLOWING A MANUAL TURBINE TRIP FOR HIGH VIBRATION. A RX TRIP OCCURRED ON LOW SG WATER LEVEL FOLLOWING A	
								MOMENTARY LOSS OF POWER IN A CONTROL CABINET RELAY PANEL	
								DURING A POWER SUPPLY REPLACEMENT ACTIVITY. THE CAUSE WAS	
								INADEQUATE WORK INSTRUCTIONS FOR THE REPLACEMENT	
CALLAWAY	01/19/05	483	4	4832005001	41347	OPERATE	AUTO	ACTIVITY. A RX TRIP OCCURRED AS A RESULT OF A FAILED ELECTRICAL RELAY IN	
CALLAWAY	01/27/04	483	4	4832004002	40484	OPERATE	AUTO	THE MAIN GENERATOR PROTECTION CIRCUITRY.	
								A RX TRIP OCCURRED WHEN THE MAIN GENERATOR OUTPUT	
								BREAKERS OPENED DURING SWITCHYARD MAINTENANCE. THE CAUSE WAS A FAULTED TIMER RELAY IN THE GENERATOR	
CALLAWAY	02/03/04	483	4	4832004003	40500	OPERATE	AUTO	PROTECTION CIRCUITRY.	
								A RX TRIP OCCURRED ON LOW SG WATER LEVEL DURING A	
								FEEDWATER TRANSIENT AFTER A TRANSFER FROM THE BYPASS	
								FEEDWATER REGULATING VALVES TO THE MAIN FEEDWATER REGULATING VALVES. THE CAUSE WAS INSUFFICIENT FEEDWATER	
CALLAWAY	02/15/04	483	4	4832004005	40522	OPERATE	AUTO	PREHEATING.	
								A RX TRIP OCCURRED ON OTDT THAT WAS GENERATED DURING A DOWN POWER AT ONE PERCENT PER MINUTE TO SECURE THE "C"	
								CONDENSATE PUMP DUE TO AN OIL LEAK. THE ACCUMULATION OF	
								OTDT PENALTY POINTS CULMINATED IN A ROD STOP, TURBINE	
CALLAWAY	12/14/02	483	4	4832002014	39445	OPERATE	AUTO	RUNBACK, AND SUBSEQUENT RX TRIP. A RX TRIP FOLLOWED A LOSS OF POWER TO THE ROD CONTROL	
								SYSTEM. A ROD DRIVE MG SET OUTPUT BKR OPENED AFTER THE	
								OTHER TRAIN'S BKR WAS OPENED FOR MAINTENANCE. ALL RODS	
CALLANDAY	00/00/5	400		4022224	2722	00554=5		INSERTED RESULTING IN AN OTDT RX TRIP. THE CAUSE WAS A 40	
CALLAWAY	03/09/01	483	4	4832001003	3/821	OPERATE	AUIO	VOLT RIPPLE IN A DC BUS.	
								A RX TRIP OCCURRED ON LOW RCS FLOW FOLLOWING THE TRIP OF A	
								RCP. SHORTLY AFTER THE TRIP, THE THREE REMAINING RCPS AND ALL	
CALLAMAY	02/12/00	483	1	483300000 3	26605	ODEDATE	ALITO	MAIN CIRCULATING WATER PUMPS TRIPPED. THE CAUSE WAS FLUCTUATING GRID VOLTAGE.	NO CHANGES.
CALLAWAY	02/13/00	483	4	4032000002	20085	OFERAIL	AUTU	I LOCTUATING GRID VOLTAGE.	INO CHANGES.

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JAME	, /	CATE			Event Repo	At Motification	ODE	Scram Cause I Description		
PLANT WANT	EVENT	000	HET RE	GION Licensee	Eve	AT NEW LIMIT	MODE	Scrames	Martes	
				•				THE REACTOR TRIPPED DUE TO THE LOSS OF AN RCP FOLLOWING A	,	
								PARTIAL LOSS OF OFFSITE POWER. THE RCP WAS LOST DUE TO AN ELECTRICAL MALFUNCTION. THE FAULT WAS CAUSED BY A SHORT		
								DUE TO WATER INTRUSION INTO THE RELAY PROTECTION CIRCUITRY		
CALVERT CLIFFS 1	02/18/10	317	1	3172010001	45709	OPERATE				
								THE REACTOR TRIPPED ON HIGH PRESSURIZER PRESSURE FOLLOWING A LOAD REJECTION. THE LOAD REJECTION WAS CAUSED BY A		
								GENERATOR OUTPUT BREAKER OPENING WHILE THE REDUNDANT		
								BREAKER WAS OPEN FOR MAINTENANCE. THE BREAKER OPENED DUE		
CALVERT CLIFFS 1	05/12/10	317	1	3172010003	45920	OPERATE	-	TO A LOOSE 125VDC CONNECTION.		
								DURING MAINTENANCE ON THE TURBINE CONTROL SYSTEM, A		
								TRANSIENT WAS CAUSED IN THE REACTOR COOLANT SYSTEM RESULTING IN A MANUAL REACTOR TRIP. THE CAUSE OF THE		
								TRANSIENT WAS A BROKEN WIRE IN THE ELECTRICAL CABINET OF		
CALVERT CLIFFS 1	12/12/06	317	1	3172006004	43046	OPERATE	MAN	TURBINE CONTROL VALVE 3.		
								THE RX WAS MANUALLY SCRAMMED ON HIGH TURBINE GENERATOR		
CALVEDT CLIEFC 1	02/01/05	217	1	2472005002	41453	ODERATE		VIBRATION. THE CAUSE WAS RUBBING RESULTING FROM TIGHT		
CALVERT CLIFFS 1	03/01/05	317		31/2005002	41452	OPERATE		PACKING TO ROTOR CLEARANCES. A RX TRIP OCCURRED ON LOW SG WATER LEVEL AFTER A FRV		
								CLOSURE AND RESULTING LOSS OF BOTH FEED PUMPS. THE CAUSE		
								WAS A SHORTED CHART RECORDER POWER FEED DURING		
								MAINTENANCE WHICH RESULTED IN THE LOSS OF A DIGITAL		
CALVERT CLIFFS 1	03/20/04	317	1	3172004001	40601	OPERATE	AUTO	FEEDWATER TRANSFER BUS.		
								THE RX WAS MANUALLY TRIPPED ON DECREASING OIL LEVEL AND		
								INCREASING THRUST BEARING TEMPERATURE ON ONE OF FOUR RX		
								COOLANT PUMPS. THE CAUSE WAS A FAILED BUTT WELD ON A RX		
CALVERT CLIFFS 1	07/24/02	317	1	3172002003	39088	OPERATE		COOLANT PUMP MOTOR OIL COOLER LINE.		
								A TURBINE TRIP/RX TRIP OCCURRED ON A RX TRIP BUS UNDERVOLTAGE CONDITION. THE CAUSE WAS A FAILURE OF A MG		
CALVERT CLIFFS 1	01/14/00	317	1	3172000001	36591	OPERATE		SET LOCAL VOLTAGE ADJUST HAND SWITCH.		
								A RX TRIP OCCURRED ON LOW SG WATER LEVEL FOLLOWING THE		
								SPURIOUS CLOSURE OF BOTH MSIVS. THE CAUSE WAS A FAILED		
CALVEDT CLIEFC 1	00/10/00	217	1	247200000	27202	ODERATE	ALITO	LOGIC MODULE IN THE ENGINEERED SAFETY FEATURES ACTUATION		
CALVERT CLIFFS 1	09/10/00	31/	1	3172000005	3/303	OPERATE	AUTU	THE REACTOR TRIPPED ON LOW FLOW FOLLOWING A PARTIAL LOSS		
								OF POWER TO THE RCP BUS. THE LOSS OF AN RCP WAS CAUSED BY		
								AN ELECTRICAL MALFUNCTION DUE TO FAILURE OF A GROUND		
CALVERT CLIFFS 2	02/18/10	318	1	3182010001	45709	OPERATE	AUTO	FAULT RELAY.		
								WHILE DEDECORMING A CLEARANCE ORDER FOR MAINTENANCE ON		
								WHILE PERFORMING A CLEARANCE ORDER FOR MAINTENANCE ON TRANSFORMER P-13000-2, A REACTOR TRIP OCCURRED DUE TO HIGH		
								PRESSURE. PERSONNEL INVOLVED IN THE EVOLUTION WERE		
								UNAWARE THAT OPENING THE DISCONNECT WOULD RESULT IN A		
CALVERT CLIFFS 2	11/16/06	318	1	3182006001	42995	OPERATE	_	REACTOR TRIP.		
								A RX TRIP OCCURRED ON LOW SG WATER LEVEL FOLLOWING THE TRIP OF A SG FEED PUMP ON AN ERRONEOUS OVER SPEED TRIP		
								SIGNAL. THE CAUSE WAS DEGRADED DIGITAL SPEED MONITOR		
								SUPPLY VOLTAGE RESULTING FROM CORROSION OF AN INLINE FUSE		
CALVERT CLIFFS 2	01/23/04	318	1	3182004001	40472	OPERATE	AUTO	AND HOLDER CONTACTS.		

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					t Repo	nt Multiple ation		And Scram Cause Description	
PLANT MAN	EVENT	DATE	CHET RE	JON Licensee	Even	A Motification	MODE	nu n Cause 1	
PLA	EVE	100	RE	licer	Ene	JMI.	MC SCR	s/ scia.	NOTES
								A TURBINE/RX TRIP OCCURRED ON HIGH PZR PRESSURE RESULTING	
								WHEN THE MAIN TURBINE GOVERNOR VALVES SHUT UNEXPECTEDLY	
								DURING TROUBLESHOOTING ON THE MAIN TURBINE CONTROLS. A	
CALVERT CLIFFS 2	05/28/03	318	1	3182003003	30885	ODERATE		SHORT CIRCUIT WAS CAUSED BY INCORRECT USE OF TEST EQUIPMENT DURING TROUBLESHOOTING.	
CALVERT CENTS 2	03/28/03	310	1	3182003003	33003	OFLINATE	+	A RX TRIP OCCURRED ON A LOSS OF OFFSITE POWER. THE EVENT	
								WAS CAUSED BY FAILURE TO IMPLEMENT RELAY TAP SETTING	
CATAWBA 1	05/20/06	413	2	4132006001	42592	OPERATE	AUTO	CHANGES IN SWITCHYARD EQUIPMENT.	
								THE RX WAS MANUALLY TRIPPED AFTER A SG FEEDWATER ISOLATION	
								VALVE FAILED CLOSED. THE CAUSE WAS FAILURE OF THE VALVES HYDRAULIC ACTUATER WHEN A PLUG IN THE BOTTOM OF THE	
CATAWBA 1	02/22/04	413	2	4132004002	40538	OPERATE		HYDRAULIC RESERVOIR EJECTED.	
<u> </u>	02/22/01			.10100.001		J. 1			
								A TURBINE/RX TRIP OCCURRED ON MOISTURE SEPARATOR REHEATER	
								INVALID HIGH LEVEL. THE MICRO-SWITCH MECHANISMS ON THE	
CATAVA/DA 1	42/05/04	412	2	4422004004	41246	ODEDATE		TWO LEVEL SWITCHES WERE OUT OF ADJUSTMENT CONCURRENT	
CATAWBA 1	12/05/04	413		4132004004	41246	OPERATE	+	WITH EXTERNAL VIBRATION TO THE SWITCHES. A TURBINE/RX TRIP OCCURRED ON HIGH SG WATER LEVEL AFTER THE	
								FEEDWATER CONTROL SYSTEM WENT TO MANUAL DURING A	
								FEEDWATER TRANSMITTER REPLACEMENT ACTIVITY. THE CAUSE WAS	
								INADEQUATE UNDERSTANDING OF THE MAIN FEEDWATER CONTROL	
CATAWBA 1	02/04/03	413	2	4132003001	39559	OPERATE	AUTO	SYSTEM.	
								A RX TRIP OCCURRED ON OTDT PROTECTION WHEN CHANNEL TWO	
								PZR PRESSURE FAILED LOW WHILE CHANNEL ONE OTDT WAS IN TRIP	
								DUE TO A RX COOLANT HOT LEG TEMPERATURE PROBLEM. THE	
CATAWBA 1	08/29/03	413	2	4132003005	40114	OPERATE	AUTO	CAUSE WAS A FAILED PZR PRESSURE LOOP POWER SUPPLY CARD.	
								A TURBINE TRIP/RX TRIP OCCURRED WHILE INVESTIGATING A	
								PROBLEM WITH THE MECHANICAL TRIP SOLENOID VALVE. TROUBLESHOOTING FAILED TO NOTE THAT THE MECHANICAL TRIP	
								PISTON WAS NOT FULLY RESET DURING LIMIT SWITCH REPLACEMENT	
CATAWBA 1	01/17/01	413	2	4132001001	37667	OPERATE		AND CALIBRATION.	
								A RX TRIP OCCURRED FOLLOWING A TURBINE TRIP DUE TO AN	
								ELECTRICAL SHORT ON THE TURBINE ELECTRICAL TRIP SOLENOID	
CATAWBA 1	02/13/00	413	2	<i>4</i> 132000001	36686	ODERATE		VALVE. THE CAUSE WAS THE MISAPPLICATION OF A CONNECTOR INSERT INSULATING MATERIAL.	
CATAVVDAI	02/13/00	413		713200001	30000	OI LINATE	_	A REACTOR TRIP OCCURRED ON LOSS OF OFFSITE POWER. THE	
								EVENT WAS CAUSED BY FAILURE TO IMPLEMENT RELAY TAP SETTING	
CATAWBA 2	05/20/06	414	2	4132006001	42592	OPERATE	+	CHANGES IN SWITCHYARD EQUIPMENT.	
								THE RX WAS MANUALLY TRIPPED AFTER AN ELECTRICAL FAULT	
								CAUSED SHUTDOWN BANK "D" RODS TO DROP INTO THE CORE. THE MOST PROBABLE CAUSE WAS AN INTERMITTENT FAILURE OF A	
CATAWBA 2	10/28/04	414	2	4142004002	41154	OPERATE		CIRCUIT CARD IN THE ROD CONTROL SYSTEM.	
	-,,,			22.002				A RX TRIP OCCURRED ON LOW RX COOLANT SYSTEM FLOW	
								FOLLOWING THE LOSS OF A RCP. THE CAUSE WAS AN INTERNAL	
CATAWBA 2	12/07/01	414	2	4142001003	38550	OPERATE		ELECTRICAL FAULT IN THE RCP MOTOR.	
								A TURBINE/RX TRIP OCCURRED ON HIGH SG WATER LEVEL DURING A FEEDWATER TRANSIENT. THE CAUSE WAS A LOSS OF CONTROL	
								POWER TO A FEEDWATER PUMP ATTRIBUTED TO WATER INTRUSION	
								INTO THE FEEDWATER PUMP CONTROL PANEL FROM HEAVY RAINS	
CATAWBA 2	06/05/00	414	2	4142000003	37059	OPERATE	AUTO	AND ROOF REPAIRS.	

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						or number		Scram Cause Description	
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PLANTMAN	ak Event	DATE	\$	ON See	ENC	Motifi	MODE	The Course	<i>(</i> 5)
PLAN	EVER	\Q	SCHE! PER	310M Licensee	Ene	'ALL THAT	ر چره	Scram Co	Martes
								THE REACTOR WAS MANUALLY TRIPPED FOLLOWING THE TRIP OF A	
								REACTOR RECIRCULATION PUMP TRIP. THE CAUSE OF THE RECIRC	
0.111.701.4	40/45/00	464		464200005	45.400	0050475		PUMP TRIP WAS FAILURE OF THE PUMP MOTOR DUE TO INSULATION	
CLINTON 1	10/15/09	461	3	4612009005	45433	OPERATE	+	BREAKDOWN. THE B REACTOR RECIRCULATION PUMP TRIPPED CAUSING THE	<u> </u>
								REACTOR VESSEL LEVEL TO SWELL TO GREATER THAN 48 INCHES. THE	
								REACTOR TRIPPED AUTOMATICALLY ON HIGH REACTOR WATER	
CLINTON 1	02/10/08	461	3	4612008001	43976	OPERATE			
								A TURBINE TRIP/RX SCRAM OCCURRED DUE TO AN OPEN CIRCUIT IN	
								THE CURRENT TRANSFORMER OF THE MAIN GENERATOR OUTPUT.	
								THE CAUSE WAS INADEQUATE WORKMANSHIP RESULTING IN A	
CUNTON 4	02/20/05	464	_	4642006004	42420	0050475		LOOSE TERMINAL SCREW ON THE CURRENT TRANSFORMER LEAD	
CLINTON 1	03/20/06	461	3	4612006001	42430	OPERATE	AUTO	THE HPCS SYSTEM ACTUATED RESULTING IN A REACTOR TRIP DUE TO	
								HIGH WATER LEVEL. THE CAUSE OF THE HPCS ACTUATION IS A	
								MOMENTARY LOSS OF THE DIVISION 4 NSPS INVERTER DUE TO A BAD	
CLINTON 1	08/27/06	461	3	4612006003	42807	OPERATE		SOLDER JOINT.	
								A RX SCRAM RESULTED FROM A GENERATOR TRIP. THE CAUSE WAS	
								VIBRATION FATIGUE OF COMPONENTS (CABLE AND OR PIECE OF	
								ALUMINUM LAMINATE) WITHIN THE "B" ISOLATED PHASE BUS DUCT	
	00/00/01							COOLING SYSTEM RESULTING FROM AN INCREASE IN THE DESIGN AIR	
CLINTON 1	03/22/04	461	3	4612004001	40604	OPERATE	AUTO	FLOW RATE.	
								A TURBINE TRIP/RX SCRAM OCCURRED DUE TO A FAULT ON THE GRID	
								EXTERNAL TO THE STATION FROM A LIGHTNING STRIKE ON THE "A"	
								PHASE OF THE BROKAW LINE. LEGACY DESIGN VULNERABILITIES	
CLINTON 1	07/13/04	461	3	4612004003	40868	OPERATE	AUTO	ALLOWED THE FAULT TO RESULT IN AN UNEXPECTED RX TRIP.	
								THE RX WAS MANUALLY TRIPPED FROM VIBRATIONS ON THE MAIN	
								TURBINE TRENDING UP TO THE TRIP SETPOINT. THE CAUSE WAS	
								DEFICIENT OPERATING PROCEDURES WHICH DID NOT PROVIDE	
CLINITONI 4	04/44/02	464		4642002002	20740	ODEDATE		SUFFICIENT OPERATING RESTRICTIONS OF THE NEW MONOBLOCK	
CLINTON 1	04/11/03	461	3	4612003002	39/49	OPEKATE	IVIAN	TURBINE ROTOR. THE RX WAS MANUALLY SCRAMMED ON LOW FEEDWATER SUCTION	
							1	PRESSURE AND DECREASING RX WATER LEVEL. THE CAUSE WAS A	
								LOST 480 V BUS DUE TO A LACK OF OVERLOAD CIRCUIT PROTECTION	
CLINTON 1	12/02/03	461	3	4612003003	40368	OPERATE	MAN	FOR A BRANCH CIRCUIT.	
								A RX SCRAM OCCURRED ON HIGH RX WATER LEVEL WHEN A RX FEED	
								PUMP FAILED TO RESPOND TO A LOWERED DEMAND SIGNAL DURING	
								POWER UPRATE TESTING ON FEEDWATER LEVEL CONTROL. THE	
CLINITONI 1	05/12/02	461	١ ,	4612002002	20010	ODEDATE		CAUSE WAS LOCK UP OF THE RX FEED PUMP LIMIT SWITCH GUIDE	
CLINTON 1	05/13/02	461	3	4612002002	38916	OPERATE	+	FROM MECHANICAL BINDING. A TURBINE TRIP AND RX SCRAM OCCURRED FOLLOWING A	
								GENERATOR TRIP AND LOCKOUT RESULTING FROM A FALSE	
								ACTUATION OF THE MAIN TRANSFORMER SUDDEN PRESSURE FAULT	
								RELAY. THE CAUSE WAS A FAULTY RELAY RESULTING FROM A	
CLINTON 1	07/04/02	461	3	4612002003	39041	OPERATE	AUTO	MANUFACTURING DEFECT.	
								A TURBINE TRIP/RX SCRAM OCCURRED DUE TO LOW TURBINE	
								EMERGENCY TRIP SYSTEM PRESSURE DURING TURBINE VALVE	
							1	TESTING. THE CAUSE WAS FAILURE TO INSTALL AN EHC FLUID FLOW	
CLINITON 1	02/04/04	161	_	4612001002	2774 4	ODEDATE		RESTRICTING ORIFICE AS RECOMMENDED IN A GENERAL ELECTRIC	
CLINTON 1	02/04/01	461	3	4012001002	3//14	OPERATE	AUTU	TECHNICAL INFORMATION LETTER.	

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PLANT MANE	EVENT	Oly	ONE! PER	licensee	` / ₆	I MOL	MODE	an Car	NOTES
PIT	EME	/ 00	RE	lice	Eng	JIM.	/ 50	/ sat	/ N ^M
								A SCRAM OCCURRED ON HIGH RX WATER LEVEL WHILE A	
								SURVEILLANCE WAS BEING PERFORMED ON A LEVEL TRANSMITTER	
								FOR THE FEEDWATER LEVEL CONTROL SYSTEM. THE CAUSE WAS A	
CLINTON 1	07/24/01	461	3	4612001003	38164	OPERATE		TECHNICIAN INCORRECTLY PERFORMING A STEP IN THE PROCEDURE.	
								THE RX WAS MANUALLY SCRAMMED FOLLOWING A LOSS OF	
CLINTON 1	05 /17 /00	161	2	4612000001	27000	ODEDATE		FEEDWATER. THE CAUSE WAS A LOSS OF A 4160 VAC BUS DUE TO A	
CLINTON 1	05/17/00	461	3	4612000001	37008	OPERATE		MISLABELED TEST SWITCH. A RX SCRAM OCCURRED ON MSIV CLOSURE DURING A STEAM LINE	
								TUNNEL LEAK DETECTION SYSTEM SURVEILLANCE. THE PROCEDURE	
								HAD INADEQUATE PROVISIONS FOR PREVENTING AN EXISTING FAULT	
								IN THE OPPOSITE CHANNEL FROM COMPLETING THE ACTUATION	
CLINTON 1	12/18/00	461	3	4612000007	37614	OPERATE	AUTO	LOGIC.	
								THE REACTOR WAS MANUALLY TRIPPED FOLLOWING A MANUAL TRIP	
COODED STATION	11 100 100	200	4	200200002	45.400	ODEDATE		OF THE MAIN TURBINE. THE TURBINE WAS TRIPPED DUE TO AN UN-	
COOPER STATION	11/06/09	298	4	2982009002	45489	OPERATE	IVIAN	ISOLABLE LEAK IN THE TURBINE HIGH-PRESSURE FLUID SYSTEM.	-
								THE REACTOR WAS MANUALLY TRIPPED FOLLOWING A MANUAL TRIP	
								OF THE MAIN TURBINE DUE TO AN UN-ISOLABLE LEAK ON THE	
COOPER STATION	11/11/09	298	4	2982009004	45482	OPERATE	MAN	TURBINE HIGH-PRESSURE FLUID SYSTEM.	
								WHILE PERFORMING MAIN TURBINE REHEAT STOP VALVE TESTING,	
								THE VALVE FAILED TO REOPEN WHEN REQUIRED DUE TO A JAMMED	
	00/00/00	200		200200004	44400	0050475		TEST SOLENOID VALVE. THE OPERATORS MANUALLY SCRAMMED THE	
COOPER STATION	08/09/08	298	4	2982008001	44402	OPERATE	MAN	REACTOR. WHILE PERFORMING MAINTENANCE ON THE CRD HYDRAULIC	
								CONTROL UNITS, A WATER LEAK DEVELOPED PAST THE SEATS OF ONE	
								OR BOTH OF THE MANUAL ISOLATION VALVES. HIGH AIRBORNE	
								ACTIVITY LEVELS RESULTED IN EVACUATION OF THE REACTOR	
COOPER STATION	05/19/07	298	4	2982007004	43375	OPERATE	MAN	BUILDING AND A MANUAL SCRAM.	
								THE RX WAS MANUALLY SCRAMMED ON HIGH MOISTURE	
								SEPARATOR LEVEL AFTER A REHEAT VALVE FAILED TO OPEN DURING	
COOPER STATION	02/26/06	298	4	2982006001	42375	OPFRATE		CONDUCT OF A SURVEILLANCE TEST. THE CAUSE WAS CONTAMINATION OF EHC FLUID IN THE TURBINE CONTROL SYSTEM.	
COOLER STATION	02/20/00	250	7	230200001	123/3	J. LIMIL	141/314	THE RX WAS MANUALLY SCRAMMED ON LOWERING PLANT SERVICE	1
								AIR. THE MOST LIKELY CAUSE IS FAILURE OF THE SAC AUTO CONTROL	
COOPER STATION	05/22/06	298	4	2982006004	42594	OPERATE	MAN	SYSTEM.	
									REACTOR TRIPPED FROM 100% POWER FOLLOWING A
								A RX SCRAM OCCURRED ON LOW REACTOR WATER LEVEL. THE LOW	FEEDWATER TRANSIENT THAT RESULTED IN LOW REACTOR
COORED CTATION	04/45/05	300	4	2002005001	44.004	ODED 4 T =			
COOPER STATION	04/15/05	298	4	2982005001	41601	OPEKATE	AUTU	INSTRUMENT FAILURE IN THE RFPT SPEED CONTROL. THE RX WAS MANUALLY SCRAMMED ON DEGRADING MAIN	INSTRUMENT FAILURE.
								CONDENSER VACUUM. THE CAUSE WAS A TURBINE BEARING SLOP	
COOPER STATION	09/23/05	298	4	2982005004	42010	OPERATE	MAN	DRAIN LINE THAT FAILED FROM HIGH CYCLE FATIGUE.	
	, , , , , ,								
								THE RX WAS MANUALLY SCRAMMED ON HIGH MAIN TURBINE	
								VIBRATION. THE MOST PROBABLE CAUSE FOR TURBINE BLADE	
								FAILURE IN THE LOW PRESSURE TURBINE WAS MATERIAL CONDITION	
OOPER STATION	05/26/03	298	4	2982003004	39881	OPERATE	MAN	CONSISTANT WITH AGE-RELATED/END-OF-LIFE TYPE FAILURES.	

						Mumber		ion	
					nt Repo	t la stion		Descripti	
PLANTHAME	EVENT	DATE	CHET RE	310M Licensee	Ever	t Mumber Unit	MODE SCR	AM Scram Cause I Description	MOTES
80	<u>/ & </u>	/ 00	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		/ & <u>*</u>	<u> </u>	/ 50	<i>y</i> .	NE CONTRACTOR OF THE CONTRACTO
								THE RX WAS MANUALLY SCRAMMED DUE TO A FIRE ON THE 345 KV WOODEN CROSS-ARM ON THE PLANT'S OUTPUT LINE FROM THE	
								MAIN POWER TRANSFORMER TO THE 345 KV SWITCH YARD. THE CAUSE WAS FAILURE TO PROPERLY GROUND THE INSULATOR	
COOPER STATION	10/28/03	298	4	2982003006	40281	OPERATE		STRINGS ON THE WOODEN STRUCTURE.	
								A SCRAM OCCURRED ON LOW RX WATER LEVEL AFTER FEEDWATER PUMP "B" SPEED LOWERED UNEXPECTEDLY. THE CAUSE WAS A	
								SPURIOUS SIGNAL THAT ENTERED THE RX FEED PUMP TURBINE	
COOPER STATION	11/28/03	298	4	2982003007	40362	OPERATE		CONTROLLER. A TURBINE TRIP/RX SCRAM OCCURRED FOLLOWING A "C" PHASE	
								DIFFERENTIAL CURRENT TRIP. THE CAUSE WAS VIBRATION INDUCED	
								INSULATION WEAR IN A CURRENT TRANSFORMER LEAD WIRE WITHIN THE MAIN TRANSFORMER, RESULTING IN A SHORT TO	
COOPER STATION	10/14/00	298	4	2982000011	37429	OPERATE			
								THE REACTOR TRIPPED FOLLOWING A TURBINE TRIP. THE TURBINE TRIP WAS CAUSED BY A PRESSURE FAULT ON THE MAIN GENERATOR	
COMANCHE PEAK 1	01/09/10	445	1	4452010001	<i>1</i> 5617	OPERATE		OUTPUT TRANSFORMER. THE EXACT CAUSE OF THE PRESSURE FAULT COULD NOT BE DETERMINED.	
COMANCIETEART	01/03/10	773		4432010001	45017	OFLINATE			
								THE RX WAS MANUALLY TRIPPED FOLLOWING A LOSS OF MAIN FEEDWATER AFTER A CONDENSATE PUMP TRIPPED. THE CAUSE WAS	
COMANCHE PEAK 1	03/16/03	445	4	4452003002	39673	OPERATE	MAN	A MANUFACTURING DEFECT IN THE CONDENSATE PUMP MOTOR.	
								A TURBINE/RX TRIP OCCURRED FOLLOWING A GRID DISTURBANCE AND LOSS OF THE 345KV SWITCHYARD. A PROTECTIVE RELAYING	
COMMANICHE DEAK 1	05 /45 /02	445	4	4452002002	20040	ODEDATE		SYSTEM FAILURE FAILED TO ISOLATE THE SWITCHYARD FROM THE	
COMANCHE PEAK 1	05/15/03	445	4	4452003003	39849	OPERATE	AUTU	GRID FAULT.	
								THE REACTOR TRIPPED FOLLOWING THE TRIP OF THE MAIN TURBINE. THE TURBINE TRIPPED DUE TO A BROKEN SENSING LINE FEEDING THE	
COMANCHE PEAK 2	03/16/08	446	4	4462008001	44067	OPERATE	AUTO	VACUUM INPUT TO THE 2/3 LOW VACUUM TRIPS.	
								DURING LOAD REJECTION TESTING, OSCILLATIONS IN STEAM GENERATOR LEVEL CAUSED BOTH MAIN FEED PUMPS TO TRIP. THE	
COMANCHE PEAK 2	10/27/06	446	4	4462006002	42937	OPERATE		OPERATOR THEN MANUALLY TRIPPED THE REACTOR.	
								UPON RECEIPT OF A STEAM-FEED FLOW MISMATCH, THE OPERATOR TOOK MANUAL CONTROL OF THE FEED REG VALVE BUT WERE	
COMMANICHE DEAK 3	10/20/06	116	4	4462006002	42045	ODEDATE	NAANI	UNABLE TO CONTROL FEED FLOW. SO, THEY MANUALLY TRIPPED	
COMANCHE PEAK 2	10/29/06	446	4	4462006003	42945	OPERATE		THE REACTOR. A TURBINE/RX TRIP OCCURRED FOLLOWING A GRID DISTURBANCE	
								AND LOSS OF THE 345KV SWITCHYARD. A PROTECTIVE RELAYING SYSTEM FAILURE FAILED TO ISOLATE THE SWITCHYARD FROM THE	
COMANCHE PEAK 2	05/15/03	446	4	4452003003	39849	OPERATE			
								A RX TRIP OCCURRED ON RCP BREAKER OPENING. THE CAUSE WAS A	
COMANCHE PEAK 2	07/09/03	446	4	4462003001	39985	OPERATE		"B" PHASE STATOR TO GROUND SHORT IN THE RCP MOTOR.	
								A TURBINE/RX TRIP OCCURRED FOLLOWING THE INGESTION OF A	
COMANCHE PEAK 2	12/22/03	446	1	4462003005	1010e	ODEDATE		SMALL METALLIC COVER PLATE INTO THE MAIN GENERATOR EXCITER HOUSING AFTER A TECHNICIAN BUMPED IT.	
COIVIAINCHE PEAR Z	12/22/03	440	4	4402003005	40400	OFERATE		A RX/TURBINE TRIP OCCURRED ON A MAIN GENERATOR TRIP CAUSED	
								BY A SPURIOUS INDICATED HIGH VIBRATION ON THE MAIN GENERATOR PRIMARY WATER PUMP SHAFT. THE CAUSE WAS A	
	0.0 /5 = 1			*****	000	00== -==		FAILED OPEN CIRCUIT BREAKER IN THE VIBRATION EXPANSION	
COMANCHE PEAK 2	06/06/02	446	4	4462002001	38969	OPERATE	AUTO	MEASURING CABINET.	

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nut.	. /	NE			Event Repo	or number	ok .	Scram Cause Description			
PLANTHAME	EVENT	Dr. DC	CHET RE	GION Licensee	tue.	nt MOU JIMIT	MODE	Scram Cal		NOTES	
						ĺ		A TURBINE/RX TRIP OCCURRED ON A SPURIOUS TURBINE TRIP			
2014112115 2511/2	0= /40 /04	4.4.6		4462004004	20440	0050475		SIGNAL WHILE REPLACING A BURNED OUT AMSAC TRAIN A POWER			
COMANCHE PEAK 2	07/18/01	446	4	4462001001	38148	OPERATE		LIGHT. THE CAUSE WAS A FAILED LIGHT SOCKET. DURING SWITCHGEAR METERING, THE A 4160V BUS TRIPPED. THE			
								RESULTING LOSS OF THE A FEEDWATER BOOSTER PUMP AND			
								CONDENSATE PUMP CAUSED THE OPERATORS TO MANUALLY TRIP			
RYSTAL RIVER 3	01/27/09	302	2	3022009001	44807	OPERATE	MAN	THE REACTOR.			
								FOLLOWING CONTROL ROD DRIVE SURVEILLANCE TESTING, THE			
								GROUP SEVEN RODS LOST POWER AND INSERTED INTO THE CORE. THE OPERATOR MANUALLY TRIPPED THE REACTOR PRIOR TO			
								EXCEEDING ANY RPS TRIP POINTS. THE CAUSE OF THE FAILURE WAS			
RYSTAL RIVER 3	08/24/09	302	2	3022009003	45286	OPERATE	MAN	USING AN IMPROPERLY FUSED JUMPER.			
							1	WHILE REDUCING POWER FROM 100% DUE TO LOW CONDENSATE			
								FLOW CAUSED BY THE A CONDENSATE PUMP BECOMING			
RYSTAL RIVER 3	00/24/00	302	,	3022008003	11120	ODEDATE	NAANI	UNCOUPLED, FEEDWATER FLOW OSCILLATIONS OCCURRED. THE REACTOR WAS MANUALLY TRIPPED.			
RYSTAL RIVER 3	08/24/08	302		3022008003	44438	OPERATE	IVIAIN	WITH POWER REDUCED TO 71% FOR CONDENSER WATERBOX			
								MAINTENANCE THE INTEGRATED FEEDWATER CONTROL SYSTEM			
								BECAME ERRATIC. THIS CAUSED THE REACTOR TO TRIP ON HIGH			
RYSTAL RIVER 3	02/21/07	302	2	3022007002	43179	OPERATE	AUTO	PRESSURE.			
								THE RX WAS MANUALLY TRIPPED ON A LOSS OF BOTH MAIN			
								FEEDWATER PUMPS AFTER THE ONLY RUNNING CONDENSATE PUMP			
								TRIPPED. THE CAUSE WAS A FAILURE OF THE MOTOR MAGNETIC			
CRYSTAL RIVER 3	10/29/05	302	2	3022005003	42094	OPERATE	MAN	COUPLING DUE TO PUMP OPERATION IN THE CRITICAL SPEED RANGE			
								A TURBINE/RX TRIP OCCURRED ON LOW FEEDWATER FLOW AFTER			
								FEEDWATER FLOW REDUCED TO ZERO. THE CAUSE WAS AGE			
CRYSTAL RIVER 3	03/24/04	302	2	3022004001	40608	OPERATE	AUTO	RELATED FAILURE OF ZENER DIODES IN THE MAIN FEEDWATER INTEGRATED CONTROL SYSTEM.			
MISTALMIVERS	03/24/04	302		3022004001	40000	OFERATE	7010	A RX TRIP OCCURRED ON A PARTIAL LOSS OF OFFSITE POWER WHEN			
								ONE SAFETY RELATED AND BOTH NONSAFETY 4160 V BUSES WERE			
								LOST. THE CAUSE WAS A FAILED OFFSITE LINE COMBINED WITH A			
RYSTAL RIVER 3	09/06/04	302	2	3022004003	41023	OPERATE	+	SWITCHYARD BREAKER FAULT.			
								A RX TRIP OCCURRED ON HIGH RCS PRESSURE FOLLOWING A FEEDWATER TRANSIENT WHILE TROUBLESHOOTING CONTROL			
								PROBLEMS WITH THE "B" MAIN FEEDWATER PUMP. THE CAUSE WAS			
								THE RECENT INSTALLATION OF INCORRECT CARDS IN THE			
RYSTAL RIVER 3	11/05/03	302	2	3022003005	40299	OPERATE	AUTO	INTEGRATED CONTROL SYSTEM.			
								A TURBINE/RX TRIP OCCURRED DURING 500KV SWITCHYARD			
								MAINTENANCE. A MAIN GENERATOR OUTPUT BREAKER OPENED.			
								THE CAUSE WAS MISOPERATION OF A PROTECTIVE RELAY. THE RELAY	,		
RYSTAL RIVER 3	11/07/02	302	2	3022002002	39354	OPERATE	AUTO	WAS REPLACED WITH ONE OF A DIFFERENT DESIGN.			
								DURING A PLANNED SHUTDOWN, THE REACTOR WAS MANUALLY			
HANE ADNOLD	04/26/40	221	2	2212010002	15072	ODEDATE	NAANI	TRIPPED DUE TO INCREASING VIBRATIONS ON A MAIN TURBINE			
UANE ARNOLD	04/26/10	3 3 1	3	3312010003	438/3	OPERATE	IVIAIN	BEARING.			
								THE REACTOR WAS MANUALLY TRIPPED WHILE SHUTTING DOWN			
								DUE TO LOSS OF CIRC WATER. ONE CIRC WATER TOWER WAS			
	00.15			00.00				SHUTDOWN WHEN A RISER IN THE OTHER TOWER RUPTURED			
UANE ARNOLD	02/01/09	331	3	3312009001	44821	OPERATE	MAN	RESULTING IN A LOSS OF SUPPLY TO THE CIRC WATER PUMPS.			

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PLANT MAN	ik Event	DATE			Event Repo	nt Multiple to The Transfer of	MODE SC	Scram Cause Description	
PLANT	EVENT	, \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	SCHET REC	licensee	Eve	nt le Just	W. /50	Scram Co	MOTES
								THE REACTOR WAS MANUALLY TRIPPED DUE TO RISING WATER LEVEL DURING LEVEL INSTRUMENT CALIBRATION. THE CAUSE OF	
								RISING LEVEL WAS AN INADEQUATE PROCEDURE THAT RESULTED IN	
DUANE ARNOLD	04/03/09	331	3	3312009003	44965	OPERATE	MAN	THE LOSS OF LEVEL INDICATION AND INCREASED FEED FLOW.	<u> </u>
								THE REACTOR SCRAMMED WHILE RESTORING THE REACTOR WATER	
								LEVEL/PRESSURE INSTRUMENTS FOLLOWING CALIBRATION. THE	
								EVENT WAS CAUSED BY FAILURE TO CLOSE AN INSTRUMENT ISOLATION VALVE, WHICH RESULTED IN A SENSED LOW REACTOR	THE SCRAM WAS CAUSED WHILE RESTORING THE REACTOR WATER LEVEL/PRESSURE INSTRUMENTS TO SERVICE
DUANE ARNOLD	10/08/09	331	3	3312009004	45421	OPERATE	AUTO	WATER LEVEL ON TWO RPS CHANNELS.	FOLLOWING CALIBRATION.
								THE REACTOR WAS MANUALLY SCRAMMED DUE TO HIGH LEVELS OF	
								CHLORIDES, SULFATES, AND CONDUCTIVITY, DUE TO RESIN INTRUSION FOLLOWING THE PLACEMENT OF A CONDENSATE	
DUANE ARNOLD	03/18/07	331	3	3312007006	43247	OPERATE	MAN	DEMINERALIZER IN SERVICE.	
								DURING PLANNED PREVENTIVE MAINTENANCE OF A NON-ESSENTIAL	
								BUS, LOSS OF 4160V BUS 1A2 RESULTED IN LOSS OF THE B CONDENSATE AND REACTOR FEED PUMPS. THE REACTOR WAS	
DUANE ARNOLD	04/02/07	331	3	3312007007	43271	OPERATE	MAN	MANUALLY TRIPPED DUE TO LOWERING REACTOR VESSEL LEVEL.	
								THE REACTOR TRIPPED AUTOMATICALLY FOLLOWING A TURBINE TRIP	
								DURING TURBINE TESTING. THE CAUSE OF THE TRIP IS A NOISE SPIKE IN COMBINATION WITH NORMALLY OPEN CONTACTS BEING STUCK	
DUANE ARNOLD	11/06/06	331	3	3312006005	42966	OPERATE	AUTO		
								THE RX WAS MANUALLY SCRAMMED ON THE RATE AND MAGNITUDE OF CONTINUED CONDUCTIVITY INCREASES IN THE CONDENSER	
								HOTWELL, RX FEEDWATER, AND RCS. THE CAUSE WAS A PUNCTURED	
								CONDENSER TUBE RESULTING FROM FATIGUE FAILURE OF A	
DUANE ARNOLD	02/01/03	331	3	3312003001		OPERATE	MAN	CONDENSER STEAM DEFLECTOR PLATE. THE RX WAS MANUALLY SCRAMMED ON INCREASING RX COOLANT	
								SYSTEM CONDUCTIVITY. THE CAUSE WAS RESIN INTRUSION FROM A	
								CONDENSATE DEMINERALIZER THAT HAD A MANUFACTURING	
DUANE ARNOLD	11/07/03	331	3	3312003005	40301	OPERATE	MAN	DEFECT.	
								THE RX WAS MANUALLY SCRAMMED ON DEGRADING CONDENSER	
								VACUUM DURING POWER ASCENSION FOLLOWING REPAIR OF	
								CONDENSER EXPANSION JOINT. THE CAUSE WAS AIR INLEAKAGE FROM A FAILED WELDED SEAM BETWEEN THE HIGH PRESSURE	
DUANE ARNOLD	11/25/03	331	3	3312003006	40353	OPERATE	MAN	CONDENSER AND THE CROSSOVER LOOP SEAL.	
								THE RX WAS MANUALLY SCRAMMED ON DECREASING RX WATER	
								LEVEL AFTER A FEEDWATER PUMP MINIMUM FLOW BYPASS VALVE FAILED OPEN. THE AFFECTED FEEDPUMP TRIPPED ON LOW SUCTION	
								PRESSURE. THE CAUSE WAS A FAILED MINIMUM FLOW VALVE	
DUANE ARNOLD	08/12/01	331	3	3312001003	38202	OPERATE	MAN	CONTROLLER.	
								THE RX WAS MANUALLY TRIPPED IN ANTICIPATION OF LOW RX	
								WATER LEVEL FOLLOWING A LOSS OF FEED. ONE OF TWO FEED PUMPS TRIPPED FOLLOWING THE LOSS OF AN INSTRUMENT BUS. THE	
								CAUSE WAS A FAILED INVERTER BUT NO DEFINITIVE ROOT CAUSE	
DUANE ARNOLD	10/17/01	331	3	3312001006	38398	OPERATE	MAN	COULD BE FOUND.	

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ant N	EMT		CHET REC	siON licensee		T. MC -MT	and sch	an C	Motes
6/2	\ \Ex.	/ 00	/ PK	jic	/ Eng	/ JII	/ 50	\$ ^{ci}	/ MIL
								A RX SCRAM OCCURRED ON A FALSE LOW RX VESSEL WATER LEVEL	
								SIGNAL DURING RESTORATION FROM A TEST OF RX VESSEL WIDE	
DUANE ARNOLD	01/05/00	221	2	3312000001	26565	ODEDATE		RANGE LEVEL INSTRUMENTATION. THE CAUSE WAS THE USE OF AN INADEQUATE INSTRUMENT RESTORATION PROCESS.	
DUANE ARNOLD	01/05/00	331	3	3312000001	30303	OPERATE	AUTU	INADEQUATE INSTRUMENT RESTORATION PROCESS.	
								A TURBINE TRIP/RX TRIP OCCURRED FOLLOWING A MAIN	
								GENERATOR LOCKOUT. THE CAUSE WAS A LOOSE CONNECTION ON A	
DUANE ARNOLD	06/23/00	331	3	3312000002	37110	OPERATE	AUTO	MAIN GENERATOR CURRENT TRANSFORMER SECONDARY LEAD.	NO CHANGES FOR LER REV 1.
								POWER WAS REDUCED AND SCRAMMED DUE TO DEGRADED	
								CONDENSER PRESSURE. THE CAUSE WAS AIR IN-LEAKAGE INTO THE	
								CONDENSER FROM A BROKEN LOW PRESSURE TURBINE BEARING	
								WASTE WATER AND OIL DRAIN PIPE THAT IS ROUTED THROUGH THE	
DAVIS-BESSE	09/06/06	346	3	3462006003	42828	OPERATE	MAN	CONDENSER.	
								A RX TRIP OCCURRED DURING SURVEILLANCE TESTING OF THE	.
DAVIS-BESSE	00/04/04	246	2	2462004002	40021	ODEDATE		CONTROL ROD DRIVE TRIP BREAKERS. THE CAUSE WAS A PREVIOUSLY FAILED FUSE FOR ONE TRIP BREAKER DUE TO AGE AND FATIGUE.	
DAVIS-BESSE	08/04/04	346	3	3462004002	40921	OPERATE		THE REACTOR WAS MANUALLY TRIPPED DUE TO HIGH VIBRATIONS	+
СООК 1	02/02/08	315	3	3152008001	43956	OPERATE		ON MAIN TURBINE BEARINGS 5 AND 6.	
COOK 1	02/02/00	313		3132000001	+3330	OI LIVITE	1717 (14	ON WARE PORBLE BEAUTIONS STAND O.	+
								THE REACTOR WAS MANUALLY TRIPPED AFTER A MALFUNCTION OF	
								THE MAIN TURBINE GENERATOR RESULTED IN HIGH TURBINE	
СООК 1	09/20/08	315	3	3152008006	44507	OPERATE	MAN	VIBRATIONS AND A FIRE IN THE GENERATOR.	
								A MALFUNCTION OF THE MAIN FEEDWATER PUMP DIGITAL CONTROL	
								SYSTEM RESULTED IN A REACTOR SCRAM DUE TO LOW STEAM	
								GENERATOR LEVEL. THE CAUSE OF THE CONTROL SYSTEM FAILURE	
								WAS AN OVERVOLTAGE CONDITION ON THE DIGITAL CONTROL	
COOK 1	08/28/07	315	3	3152007001	43605	OPERATE	AUTO	SYSTEM POWER SUPPLY.	
								A RX TRIP OCCURRED ON INTERMEDIATE RANGE HIGH FLUX DURING	
								NORMAL PLANT STARTUP PREPARATIONS TO SYNCHRONIZE THE	
								GENERATOR WITH THE GRID. THE CAUSE WAS AGE RELATED	
СООК 1	04/26/05	315	3	3152005001	41639	OPERATE		DEGRADATION OF A LEVEL ADJUST POTENTIOMETER.	
	0 1/ = 0/ 00								
								A MAIN TURBINE/RX TRIP OCCURRED FOLLOWING A FAULT AND	
								AUTOMATIC TRIP OF THE MAIN TRANSFORMER. A SUDDEN INTERNAL	_
								FAULT WITHIN THE TRANSFORMER RUPTURED THE TRANSFORMER	FIRE WAS EXTINGUISHED WITHIN 35 MINUTES OF THE
COOK 1	01/15/03	315	3	3152003001	39513	OPERATE	AUTO	OIL TANK RESULTING IN A LOSS OF OIL AND A FIRE.	EVENT WITH ONE MINOR REFLASH.
								THE RX WAS MANUALLY TRIPPED ON FEED PUMP CONDENSER	
								FOULING FOLLOWING AN INFLUX OF FISH ON THE INTAKE SCREENS	
								FOR THE CIRCWATER AND ESSENTIAL SERVICE WATER SYSTEMS. THE CAUSE WAS INADEQUATE OPERATIONAL RESPONSE AND	
COOK 1	04/24/03	315	3	3152003003	39790	OPERATE		INADEQUATE MAINTENANCE OF THE SCREENS.	AN SSF IS ALSO CODED FOR A LOSS OF ESW.
550K 1	0-1/2 -1 /03	313		3132003003	33730	JI LIVIIL	171/ 111	TO DECOMPLISH HAVE OF THE SCREENS.	A WOOD CODED FOR A LOSS OF LOW.
								THE RX WAS MANUALLY TRIPPED ON THE LOSS OF A MAIN	
								FEEDWATER PUMP ON LOW FEED PUMP TURBINE CONDENSER	
								VACUUM. DEBRIS ENTERED THE FEEDWATER PUMP CONDENSER	
								FOLLOWING THE START OF A CIRCULATING WATER PUMP AND	
COOK 1	06/14/02	315	3	3152002005	38993	OPERATE	MAN	RESULTED IN THE LOSS OF CONDENSER VACUUM.	

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PLANT WANT	t typy	DATE	SCHE! PAR	GION Licensee	Ene.	nt Motification	MODE SCE	Scram Cause	MOTES
COOK 1	02/15/01			3152001001	37751	OPERATE		THE RX WAS MANUALLY TRIPPED WHEN A MAIN FEEDWATER PUMP TRIPPED DUE TO A LOSS OF VACUUM IN THE MAIN FEEDWATER PUMP CONDENSER. THE CAUSE WAS CORROSION DEBRIS OBSTRUCTING FLOW AT THE CONDENSER'S INLET SIDE TUBESHEET. THE REACTOR WAS MANUALLY TRIPPED WHEN INDICATIONS WERE RECEIVED THAT A REACTOR COOLANT PUMP SEAL HAD MALFUNCTIONED. THE RCP SEAL FAILED DUE TO THE BUILDUP OF	
COOK 2	07/26/09			3162009001 3162005001				A RX TRIP OCCURRED ON RX COOLANT PUMP BUS UNDERVOLTAGE. THE CAUSE WAS POOR BRUSH CONTACT ON THE MAIN GENERATOR EXCITER ROTOR WHICH CAUSED THE UNDERVOLTAGE CONDITION.	
COOK 2	03/29/04			3162004001				A RX TRIP OCCURRED ON HIGH NEGATIVE RATE RPS ACTUATION DURING A RX TRIP BYPASS BREAKER MANIPULATION TEST. AN OPERATOR INCORRECTLY INSERTED A BREAKER RACKING BAR RESULTING IN A MOMENTARY GROUND, LOSS OF ROD CONTROL MG SET, AND MULTIPLE RODS DROPPED.	
COOK 2	04/08/04						AUTO	A TURBINE/RX TRIP OCCURRED ON HIGH SG WATER LEVEL FOLLOWING A FEEDWATER FLOW TRANSIENT DURING A POWER REDUCTION. THE CAUSE WAS INADEQUATE MANUAL MAIN FEEDWATER CONTROL AND INADEQUATE COMMUNICATIONS. A RX TRIP OCCURRED ON LOW SG WATER LEVEL AFTER A FEEDWATER REGULATING VALVE FAILED CLOSED. THE CAUSE WAS A FAILED 24	
COOK 2	02/05/03			3152003002		OPERATE		THE RX WAS MANUALLY TRIPPED ON DEGRADED FORBAY CONDITIONS FOLLOWING AN INFLUX OF FISH ON THE INTAKE SCREENS FOR THE CIRCWATER AND ESSENTIAL SERVICE WATER SYSTEMS. THE CAUSE WAS INADEQUATE OPERATIONAL RESPONSE AND INADEQUATE MAINTENANCE OF INTAKE SCREENS.	AN SSF IS ALSO CODED FOR A LOSS OF ESW.
COOK 2	12/30/03	316	i 3	3162003005	40419	OPERATE	AUTO	A SCRAM OCCURRED ON LOW SG WATER LEVEL FOLLOWING THE UNPLANNED CLOSURE OF SG TWO AND THREE FEEDWATER ISOLATION VALVES. A TECHNICIAN INADVERTENTLY INTRODUCED A GROUND WHILE CALIBRATING THE CONTROL ROOM INSTRUMENT DISTRIBUTION BUS, CAUSING THE ISOLATION.	
СООК 2	05/12/02	316	5 3	3162002005	38915	OPERATE	AUTO	A RX TRIP OCCURRED ON LOW SG WATER LEVEL COINCIDENT WITH LOW FEEDWATER FLOW AFTER A FEED REGULATING VALVE FAILED CLOSED. THE CAUSE WAS AN INSTRUMENT RACK POWER SUPPLY FAILURE.	DECREASING VACUUM CAUSES SCRAM. MAIN STM LINES
COOK 2	07/22/02	316	6 3	3162002006	39081	OPERATE		A TURBINE/RX TRIP OCCURRED ON DECREASING CONDENSER VACUUM WHILE FLUSHING THE CONDENSER WATERBOXES. THE APPARENT CAUSE WAS A PREVIOUSLY UNRECOGNIZED STEAM SIDE HEAT TRANSFER ANOMALY IN THE "C" MAIN CONDENSER. A RX TRIP OCCURRED ON HIGH NEGATIVE FLUX RATE FOLLOWING	MANUALLY ISOLATED TO LIMIT RCS COOLDOWN. FEEDWATER ISOLATION TRIPPED MAIN FEEDWATER PUMPS & ISOLATED NORMAL FEEDWATER SUPPLY. AFW STARTED.
COOK 2	10/07/01	316	3	3162001004	38362	OPERATE		THE LOSS OF BOTH ROD CONTROL MG SETS. THE CAUSE WAS A FAILED RESISTOR ON ONE ROD CONTROL MG SET VOLTAGE REGULATOR.	

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DIABLO CANYON 2 10/21/08 323 4 3232008002 44588 OPERATE MAN JELLYFISH. AN ELECTRICAL DISTURBANCE IN THE UNIT 2 12-KV NON-VITAL BUS D RESULTED IN RCP 2-2 AND 2-4 BREAKERS TRIPPING ON UNDERVOLTAGE, RESULTING IN A REACTOR SCRAM. THE RX WAS MANUALLY TRIPPED WHEN A FEEDWATER REGULATING VALVE FAILED CLOSED. THE CAUSE WAS RANDOM FAILURE OF A COIL IN A SOLENOID VALVE WHICH APPEARED TO BE AGE RELATED. THE REACTOR WAS MANUALLY SCRAMMED FOLLOWING LOSS OF FEEDWATER. THE CONDENSATE PREFILTERS ISOLATED EARLIER AND THE BYPASS VALVES SHUT WHEN THE COMPUTER CONTROLLING THE VALVES WAS BEING REPLACED. DRESDEN 2 07/04/06 237 3 2372006004 42685 OPERATE AUTO ORESDEN 2 07/04/06 237 3 2372006004 42685 OPERATE SEARCH STRIPPING ON UNDERVOLTAGE, RESULTING IN A REACTOR SCRAM. THE RX WAS MANUALLY TRIPPED WHEN A FEEDWATER REGULATING VALVE WHICH APPEARED TO BE AGE RELATED. THE REACTOR WAS MANUALLY SCRAMMED FOLLOWING LOSS OF FEEDWATER. THE CONDENSATE PREFILTERS ISOLATED EARLIER AND THE BYPASS VALVES SHUT WHEN THE COMPUTER CONTROLLING THE VALVES WAS BEING REPLACED. A REACTOR SCRAM OCCURRED ON MSIN VALVES WAS BINN SETAM ISOLATION VALVE IA CLOSED DUE TO LOSS OF AIR SUPPLY. A RX SCRAM OCCURRED ON MSIN VALOSURE FOLLOWING MAIN STEAM ISOLATION VALVE IA CLOSED DUE TO LOSS OF AIR SUPPLY. A RX SCRAM OCCURRED ON MSIN VALOSURE FOLLOWING MAIN STEAM LINE HIGH FLOW. THE CAUSE WAS AN INCREASE IN ELECTRICAL RESISTANCE BETWEEN PINS ON A TURBINE EHC SYSTEM CIRCUIT CARD THAT RESULTED IN OPENING THE TURBINE BYPASS									PRESSURE ACROSS THE CIRC WATER TRAVELING SCREENS. THE CAUSE	<u> </u>
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DIABLO CANYON 2 12/12/06 323 4 3232006004 43047 OPERATE AUTO UNDERVOLTAGE, RESULTED IN RCP 2-2 AND 2-4 BREAKERS TRIPPING ON UNDERVOLTAGE, RESULTING IN A REACTOR SCRAM. THE RX WAS MANUALLY TRIPPED WHEN A FEEDWATER REGULATING VALVE FAILED CLOSED. THE CAUSE WAS RANDOM FAILURE OF A COIL IN A SOLENOID VALVE WHICH APPEARED TO BE AGE RELATED. THE REACTOR WAS MANUALLY SCRAMMED FOLLOWING LOSS OF FEEDWATER. THE CONDENSATE PREFILTERS ISOLATED EARLIER AND THE BYPASS VALVES SHUT WHEN THE COMPUTER CONTROLLING THE VALVES WAS BEING REPLACED. DRESDEN 2 05/04/07 237 3 2372006004 42685 OPERATE MAN VALVES WAS BEING REPLACED. A RESULTED IN RCP 2-2 AND 2-4 BREAKERS TRIPPING ON UNDERVOLTAGE, RESULTING IN A REACTOR SCRAM. THE RX WAS MANUALLY TRIPPED WHEN A FEEDWATER REGULATING VALVE WHICH APPEARED TO BE AGE RELATED. THE REACTOR WAS MANUALLY SCRAMMED FOLLOWING LOSS OF FEEDWATER. THE CONDENSATE PREFILTERS ISOLATED EARLIER AND THE BYPASS VALVES SHUT WHEN THE COMPUTER CONTROLLING THE VALVES WAS BEING REPLACED. A REACTOR SCRAM OCCURRED WHEN MAIN STEAM ISOLATION VALVE 1A CLOSED DUE TO LOSS OF AIR SUPPLY. A RX SCRAM OCCURRED ON MSIV CLOSURE FOLLOWING MAIN STEAM LINE HIGH FLOW. THE CAUSE WAS AN INCREASE IN ELECTRICAL RESISTANCE BETWEEN PINS ON A TURBINE EHC SYSTEM CIRCUIT CARD THAT RESULTED IN OPENING THE TURBINE BYPASS	DIABLO CANTON 2	10/21/08	323	4	3232008002	44588	OPERATE	IVIAIN	JELLYFISH.	+
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FEEDWATER. THE CONDENSATE PREFILTERS ISOLATED EARLIER AND THE BYPASS VALVES SHUT WHEN THE COMPUTER CONTROLLING THE VALVES WAS BEING REPLACED. ORESDEN 2 O7/04/06 237 3 2372006004 42685 OPERATE AUTO VALVE 1A CLOSED DUE TO LOSS OF AIR SUPPLY. A RX SCRAM OCCURRED ON MSIV CLOSURE FOLLOWING MAIN STEAM INCREASE IN ELECTRICAL RESISTANCE BETWEEN PINS ON A TURBINE EHC SYSTEM CIRCUIT CARD THAT RESULTED IN OPENING THE TURBINE BYPASS	DIVIDEO CANTOIN 2	02/03/02	323	•	3232002002	30007	OT ETO TTE	1017 (14	INVISCENCE VILLE WHICH AND TO BE NOT REDUIED.	
THE BYPASS VALVES SHUT WHEN THE COMPUTER CONTROLLING THE VALVES WAS BEING REPLACED. A REACTOR SCRAM OCCURRED WHEN MAIN STEAM ISOLATION ORESDEN 2 O7/04/06 237 3 2372006004 42685 OPERATE AUTO VALVE 1A CLOSED DUE TO LOSS OF AIR SUPPLY. A RX SCRAM OCCURRED ON MSIV CLOSURE FOLLOWING MAIN STEAM LINE HIGH FLOW. THE CAUSE WAS AN INCREASE IN ELECTRICAL RESISTANCE BETWEEN PINS ON A TURBINE EHC SYSTEM CIRCUIT CARD THAT RESULTED IN OPENING THE TURBINE BYPASS										
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A RX SCRAM OCCURRED ON MSIV CLOSURE FOLLOWING MAIN STEAM LINE HIGH FLOW. THE CAUSE WAS AN INCREASE IN ELECTRICAL RESISTANCE BETWEEN PINS ON A TURBINE EHC SYSTEM CIRCUIT CARD THAT RESULTED IN OPENING THE TURBINE BYPASS	DDECDEN 3	07/04/06	227	3	2272000004	42005	ODEDATE			
STEAM LINE HIGH FLOW. THE CAUSE WAS AN INCREASE IN ELECTRICAL RESISTANCE BETWEEN PINS ON A TURBINE EHC SYSTEM CIRCUIT CARD THAT RESULTED IN OPENING THE TURBINE BYPASS	DKESDEN Z	07/04/06	23/	3	23/2006004	42085	OPERATE	AUTU		+
CIRCUIT CARD THAT RESULTED IN OPENING THE TURBINE BYPASS										
	DRESDEN 2	03/24/05	237	3	2372005002	41517	OPERATE	AUTO		

						Murdber		ion	
	& /				ent Repo	nt Motification		AM Scram Cause I Description	
PLANTIN	AME EVENT	DATE	SCHET REC	JON Licensee	Enc.	nt Notification	MODE SCR	and Scram Cause	MOTES
,	The state of the s			<u> </u>				A RX SCRAM OCCURRED ON AN MSIV CLOSURE. THE ISOLATION	
								CONDENSER WAS MANUALLY INITIATED FOR PRESSURE CONTROL. THE CAUSE WAS INADEQUATE DRAINAGE OF THE MAIN STEAM LEAD	THE ISOLATION CONDENSER WAS DECLARED INOPERABLE
DRESDEN 2	04/24/04	237	3	2372004002	40702	OPERATE	AUTO	DRAIN SYSTEM.	IN RE 40703.
								THE RX WAS MANUALLY TRIPPED WHEN A SPURIOUS TRIP OF THE	
								"2A" RX RECIRCULATION MG SET AND PUMP PUT THE PLANT IN A RESTRICTED REGION OF THE POWER TO FLOW MAP. THE CAUSE WAS	
DRESDEN 2	04/28/04	237	3	2372004004	40713	OPERATE		A FAILED RX RECIRCULATION PUMP MOTOR.	
								A RX TRIP OCCURRED ON LOW RX VESSEL WATER LEVEL AFTER A RX	
DRESDEN 2	09/30/03	237	3	2372003003	40209	OPERATE		FEEDPUMP TRIPPED. THE CAUSE WAS A FAULT ON ONE PHASE OF THE RX FEEDPUMP CABLE.	
	03/30/03				.0200				
								THE RX WAS MANUALLY SCRAMMED AFTER AN UNEXPECTED STATOR	
								WATER COOLING RUNBACK ON HIGH STATOR COOLING WATER SYTEM TEMPERATURE. THE CAUSE WAS A FAILED TEMPERATURE	
DRESDEN 2	12/11/03	237	3	2372003007	40388	OPERATE	MAN	CONTROL VALVE TEMPERATURE CONTROLLER.	
								THE RX WAS MANUALLY TRIPPED ON A RECIRCULATION PUMP TRIP WHILE THE UNIT WAS IN SINGLE LOOP OPERATION. THE CAUSE WAS	
								INADEQUATE SYSTEM DESIGN THAT DOES NOT PROVIDE FOR	
DDECDEN 3	0.4 /0.2 /0.4	227	2	2272004002	27007	ODEDATE		STARTING THE STANDBY OIL PUMP WHEN THE OPERATING OIL PUMP	
DRESDEN 2	04/03/01	237	3	2372001002	3/88/	OPERATE	MAN	TRIPS.	+
								A SCRAM RESULTED FROM HIGH TURBINE FIRST STAGE PRESSURE	
								WITH THE TURBINE STOP VALVES CLOSED DURING TURBINE SHELL WARMING ACTIVITIES. THE CAUSE WAS PERSONNEL ERROR IN THAT	
DRESDEN 2	11/07/01	237	3	2372001005	38478	STARTUP		PRESSURE WAS INADEQUATELY MONITORED.	
								A RX SCRAM OCCURRED FOLLOWING A GENERATOR LOAD REJECT. A BUS TO PHASE DIFFERENTIAL TRIP WAS RECEIVED WHILE CLOSING A	
								MAIN GENERATOR OUTPUT BREAKER, CAUSING BOTH OUTPUT	
DRESDEN 2	11/30/00	227	2	2272000004	27550	ODEDATE		BREAKERS TO OPEN. THE CAUSE WAS IMPROPER RESTORATION FOLLOWING BREAKER MAINTENANCE.	
DRESDEN 2	11/30/00	237	3	2372000004	3/338	OPERATE	AUTU	THE REACTOR TRIPPED WHILE SWITCHING THE "A" RPS BUS FROM	<u> </u>
								THE NORMAL TO THE RESERVE POWER SUPPLY. BEFORE THE	
								EXPECTED HALF SCRAM SIGNAL COULD BE RESET A POWER SUPPLY FAILURE OCCURRED IN THE OPRM SYSTEM ON THE OPPOSITE RPS	
DRESDEN 3	10/11/10	249	3	2492010001	46325	OPERATE		DIVISION.	
								THE REACTOR TRIPPED DUE TO A REACTOR WATER LEVEL LOW-LOW SIGNAL ALONG WITH A GROUP 1 MSIV CLOSURE. THE ISOLATION	
								SIGNAL WAS MOST LIKELY CAUSED BY A PRESSURE TRANSIENT	
DRESDEN 3	10/03/09	249	3	2492009001	45409	OPERATE	AUTO	RESULTING FROM THE RESTORATION OF RWCU.	
								A TURBINE/RX TRIP OCURRED DURING MAIN TURBINE TESTING. THE	
								CAUSE WAS A MALFUNCTION OF THE MAIN TURBINE MASTER TRIP	
DRESDEN 3	01/24/04	249	3	2492004001	40474	OPERATE	AUTO	SOLENOID VALVES RESULTING FROM IMPROPER DESIGN.	<u> </u>
								A TURBINE/RX TRIP OCCURRED ON LOW MAIN TURBINE LUBE OIL PRESSURE WHILE SWAPPING LUBE OIL COOLERS. THE CAUSE WAS	
		_						INADEQUATE PROCEDURAL GUIDANCE FOR SWAPING MAIN TURBINE	
DRESDEN 3	01/30/04	249	3	2492004002	40491	OPERATE	AUTO	LUBE OIL COOLERS.	

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PLANTMAN	ik Event	DATE	SCHET PAR	atom licensee	Event Repo	nt Multiples tion	MODE	Scram Cause Description	NOTES
₹ ^V		/ 00	/ Pt	, iju	\ \\ \xi_{\text{3}}		<u> </u>	A SCRAM OCCURRED ON A MAIN GENERATOR LOAD REJECT AND	MIC NO.
DRESDEN 3	05/05/04	249	3	2492004003	40727	OPERATE	ALITO	LOOP THAT OCCURRED WHEN A 345 KV SWITCHYARD BREAKER WAS OPENED TO SUPPORT TESTING AN OFFSITE LINE. THE CAUSE WAS AN EQUIPMENT FAILURE IN THE "C" PHASE OF THE 345 KV CIRCUIT BREAKER	
DICESSEIV 5	03/03/04	243		2432004003	40727	OT ENVITE	_	A TURBINE TRIP/RX SCRAM OCCURRED ON LOW DISCHARGE	
DRESDEN 3	07/21/02	249	3	2492002002	39080	OPERATE	AUTO	PRESSURE FROM THE TURBINE SHAFT BEARING OIL PUMP. THE CAUSE WAS DEGRADATION OF THE ROTOR GEAR COUPLING INSULATION RESULTING IN CURRENT FLOW THROUGH THE GEAR SHAFTS AND ACCELERATED WEAR OF THE BEARINGS.	
DDECDEN 2	04/27/01	240	2	2402001002	27049	ODEDATE		A RX SCRAM OCCURRED ON LOW RX WATER LEVEL RESULTING DURING FLOW AND POWER OSCILLATIONS FROM A RX RECIRCULATION PUMP. THE CAUSE WAS DEBRIS IN THE RX RECIRCULATION MC SET SCOOD TURE POSITIONER MOTOR	
DRESDEN 3	04/27/01	249	3	2492001002	37948	OPERATE	AUTU	RECIRCULATION MG SET SCOOP TUBE POSITIONER MOTOR.	
DRESDEN 3	07/05/01	249	3	2492001003	38116	OPERATE		THE RX WAS MANUALLY SCRAMMED DUE TO INCREASING DRYWELL PRESSURE. THE CAUSE WAS A LOSS OF CONTAINMENT COOLING AFTER A COMPONENT COOLING WATER TEMPERATURE CONTROL VALVE DISK AND STEM SEPARATED.	
	21,20,22							A RX SCRAM OCCURRED DURING THE TRANSFER OF RPS BUS POWER	
DRESDEN 3	05/02/00	249	2	2402000002	26050	ODERATE		SUPPLIES FOLLOWING PREVENTIVE MAINTENANCE. WHILE TRANSFERRING BUS "B", BUS "A" ALSO LOST POWER. THE ASSOCIATED MG SET DRIVE MOTOR BREAKER TRIPPED BECAUSE OF PERSONNEL ERROR DURING THE MAINTENANCE.	
DRESDEN 3	05/03/00	249	3	2492000002	30939	OPERATE	AUTU	PERSONNEL ERROR DORING THE MAINTENANCE.	
DRESDEN 3	05/04/00	249	2	2492000003	36075	ODERATE	MAN	THE RX WAS MANUALLY SCRAMMED ON DECREASING CONDENSER VACUUM AND INCREASING CONDENSATE TEMPERATURE. THE CAUSE WAS FAILURE TO FOLLOW PROCEDURES DURING POST MODIFICATION TESTING OF THE SYSTEM.	
DRESDEN 5	03/04/00	243	3	2492000003	30973	OPERATE	IVIAIN	THE REACTOR TRIPPED FOLLOWING A TURBINE TRIP. THE TURBINE	
FERMI 2	03/25/10	341	3	3412010001	45789	OPERATE	AUTO	TRIP WAS CAUSED BY A SHORTED CURRENT TRANSFORMER WIRE IN THE MAIN GENERATOR Z PHASE LINE TERMINAL BUSHING ENCLOSURE.	
FERMI 2	06/06/10	3/11	3	3/12010002	15979	OPERATE	ALITO	FOLLOWING A PARTIAL LOSS OF OFFSITE POWER DUE TO SEVERE WEATHER, THE REACTOR TRIPPED FOLLOWING A TRIP OF THE MAIN TURBINE GENERATOR. THE TURBINE TRIPPED DUE TO FAST CLOSURE OF A TURBINE CONTROL VALVE.	
I LIMII Z	00/00/10	341		3412010002	43373	OFERATE	AOTO	OF A TORBINE CONTROL VALVE.	
FERMI 2	10/24/10	341	3	3412010003	46359	OPERATE	AUTO	THE REACTOR TRIPPED FOLLOWING A TURBINE TRIP DUE TO LOSS OF CONDENSER VACUUM. THE LOSS OF VACUUM WAS CAUSED BY EROSION OF A STEAM JET AIR EJECTOR STEAM SUPPLY FIRST STAGE NOZZLE, WHICH RESULTED IN LOSS OF EJECTOR CAPACITY.	
FERMI 2	03/28/09	341	2	3412009001	44942	OPFRATF		WHILE REDUCING POWER FOR SHUTDOWN, THE MAIN TURBINE #1 BEARING EXPERIENCED HIGH VIBRATIONS. THE OPERATORS MANUALLY TRIPPED THE REACTOR. THE CAUSE OF THE HIGH VIBRATIONS WAS ATTRIBUTED TO HIGH PRESSURE TURBINE RUB TRANSVERSING BEARING 1.	
FERMI 2	09/30/09			3412009002				THE REACTOR WAS MANUALLY TRIPPED IN RESPONSE TO HYDROGEN GAS IN-LEAKAGE INTO THE STATOR COOLING WATER SYSTEM FROM THE MAIN TURBINE GENERATOR. THE IN-LEAKAGE WAS CAUSED BY A HOLE WORN INTO THE COPPER STATOR WATER BAR.	

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PLANT WANT	EVENT	DA	SCHE! REC	310M licensee		nt work Inst	MODE SC	AM Scram Cau	Moits
- Qv		/ 0	/ Rv				/ 50	THE REACTOR WAS MANUALLY TRIPPED FOLLOWING THE TRIP OF	
								BOTH REACTOR RECIRC PUMPS. THE RECIRC PUMPS TRIPPED DUE TO AN INTERMITTENT FAILURE OF THE 65G BUS UNDERVOLTAGE TRIP	
FERMI 2	01/31/08	341	3	3412008001	43948	OPERATE	MAN	LOGIC.	
								AN ALTERNATE ROD INSERTION/RECIRC PUMP TRIP INITIATED DUE TO AN INVALID REACTOR WATER LEVEL SIGNAL. A MANUAL SCRAM	
								WAS PERFORMED. THE INVALID LEVEL SIGNAL RESULTED FROM AN OPERATOR PERFORMING A SAFETY TAG-OUT OF THE REACTOR LEVEL	
FERMI 2	11/15/07	341	3	3412007002	43784	STARTUP		REFERENCE LEG.	
								A TURBINE TRIP/RX SCRAM OCCURRED ON MAIN TRANSFORMER OIL	
								HIGH TEMP FOLLOWED BY GENERATOR DIFFERENTIAL RELAYING DURING A MAIN TRANSFORMER CLEANING ACTIVITY. THIS EVENT	
								WAS CAUSED BY AN INTERNAL FAULT TO GROUND ON THE	
FERMI 2	06/15/06	341	3	3412006002	42643	OPERATE	AUTO	TRANSFORMER'S HIGH VOLTAGE WINDING.	
EEDMA 2	07/20/06	244	2	244200000	42720	ODEDATE		A REACTOR SCRAM OCCURRED BECAUSE OF A PARTIAL LOSS OF	
FERMI 2	07/29/06	341	3	3412006003	42/38	OPERATE	AUTO	FEEDWATER THAT RESULTED FROM LOSS OF DIVISION 1 POWER. THE RX WAS MANUALLY SCRAMMED ON INDICATIONS OF	
								UNIDENTIFIED RX COOLANT LEAKAGE GREATER THAN TEN GPM. THE LEAKAGE WAS LATER DISCOVERED TO BE FROM THE RX BUILDING	
								CLOSED COOLING WATER SYSTEM VIA A FAILED END BELL GASKET ON	
FERMI 2	01/24/05	341	3	3412005001	41354	OPERATE	MAN	DRYWELL COOLER NUMBER FOUR.	
								A TURBINE/RX TRIP OCCURRED WHEN AN AUTOMATIC VOLTAGE	
								REGULATOR TRIP RELAY CAUSED A MAIN GENERATOR TRIP. THE CAUSE WAS A FAILED ELECTRONIC COMMUNICATION SYSTEM IN THE	
FERMI 2	09/03/04	341	3	3412004002	41017	OPERATE	AUTO	MAIN GENERATOR EXCITATION SYSTEM. A TURBINE/RX TRIP OCCURRED ON A MAIN GENERATOR TRIP FROM	
								AN AUTO VOLTAGE REGULATOR TRIP. THE CAUSE WAS THE	
								INSTALLATION OF THREE NEW ELECTRONIC CARDS IN THE GENERATOR EXCITER THAT WERE INCOMPATIBLE WITH THE	
FERMI 2	12/04/04	341	3	3412004004	41243	OPERATE		ORIGINAL SYSTEM DESIGN.	
								A TURBINE TRIP/RX SCRAM OCCURRED DURING ELECTRICAL GRID VOLTAGE FLUCTUATIONS. THE CAUSE WAS A MAJOR GRID	
FERMI 2	08/14/03	341	3	3412003002	40075	OPERATE	AUTO	DISTURBANCE AND BLACKOUT.	
								A TURBINE TRIP/RX SCRAM OCCURRED WHEN CONDENSER PRESSURE INCREASED ABOVE THE TURBINE TRIP SETPOINT. CONDENSER	
								VACUUM WAS LOST WHEN CIRCULATING PUMP NUMBER TWO FAILED. THE CAUSE WAS A SEPARATION OF THE MOTOR AND PUMP	DECAY HEAT WAS REMOVED USING ONE RFP THROUGH
FERMI 2	10/02/02	341	3	3412002004	39239	OPERATE		FROM FATIGUE FAILURE OF THE BOLTS.	THE TURBINE BYPASS VALVES TO THE MAIN CONDENSER.
								THE RX WAS MANUALLY SCRAMMED DUE TO THE INABILITY TO DRIVE	
FERMI 2	12/29/02	341	2	3412002006	20/176	ODEBVIE		IN CONTROL RODS. THE CAUSE WAS A FAULTY VOLTAGE REGULATOR ASSOCIATED WITH THE MASTER POWER UNIT.	
I LINIVII Z	12/29/02	541	3	3412002000	334/0	OFERAIL	IVIAIN		
								THE RX WAS MANUALLY SCRAMMED FOLLOWING THE LOSS OF STATOR WATER COOLING. A HEAT EXCHANGER VENT LINE BROKE	
								OFF WHILE TAKING A STATOR WATER SAMPLE. THE CAUSE WAS	
FERMI 2	12/06/01	341	3	3412001004	38542	OPERATE		INADEQUATE PROBLEM RESOLUTION DATING BACK TO 1996 AND INADEQUATE ORIGINAL VENT LINE DESIGN.	

					Repa	nt humber		Description	
PLANTMANT	EVENT	DATE	SCHET RE	GION licensee	Event Eve	nt hotification	MODE SCR	Ann Scram Cause I Description	Mortes
								THE RX WAS MANUALLY SCRAMMED AFTER A RX RECIRC PUMP WAS TRIPPED BECAUSE OF SPEED FLUCTUATIONS. LACKING SPECIFIC PROCEDURAL GUIDANCE CONCERNING LOW POWER SINGLE RECIRC	
FERMI 2	04/01/00	341	3	3412000004	36854	OPERATE	MAN	PUMP OPERATIONS, OPERATORS SCRAMMED THE PLANT. THE REACTOR TRIPPED AT 8% POWER, WHEN THE MODE SWITCH	
								WAS PLACED IN RUN. THE TRIP WAS CAUSED BY UPSCALE TRIP	
								SIGNALS FROM THE INTERMEDIATE RANGE NUCLEAR INSTRUMENTS.	
LIATCH 1	05 /4 0 /00	221	,	2242000004	45053	ODEDATE		THE UPSCALE TRIP SIGNALS WERE CAUSED BY AN ELECTRICAL NOISE	
HATCH 1	05/10/09	321		3212009004	45052	OPERATE	AUTO	THE REACTOR TRIPPED FOLLOWING A TURBINE TRIP. THE CAUSE OF	
								THE TURBINE TRIP WAS DUE TO MODIFICATIONS TO THE TURBINE	
								ELECTRO-HYDRAULIC CONTROLLER SUCH THAT A LOW PRESSURE	
								WAS SENSED IN THE EHC DURING TESTING, RESULTING IN A TURBINE	
HATCH 1	07/04/08	321	. 2	3212008003	44337	OPERATE		A CONDENSATE BOOSTER PUMP TRIPPED ON LOW SUCTION	
								PRESSURE CAUSING BOTH FEEDWATER PUMPS TO TRIP. THE	
								REACTOR WAS MANUALLY TRIPPED. THE CAUSE OF THE LOW	
								SUCTION PRESSURE WAS FAILURE OF THE DC POWER SUPPLY FOR	
HATCH 1	11/22/08	321	2	3212008004	44679	OPERATE		THE STEAM JET AIR EJECTOR DP CONTROLLER.	
								A TURBINE TRIP/RX SCRAM OCCURRED ON A MAIN TRANSFORMER INTERNAL FAULT WHICH RESULTED IN A MAIN GENERATOR NEUTRAL	
HATCH 1	10/29/05	321	2	3212005002	42096	OPERATE		GROUND OVERCURRENT LOCKOUT.	
								THE RX WAS MANUALLY SCRAMMED ON DEGRADING CONDENSER	
								VACUUM AFTER THE INSERVICE STEAM JET AIR EJECTOR WAS	
								REMOVED FROM SERVICE DUE TO HIGH HYDROGEN OFFGAS	
HATCH 1	02/08/02	321	2	3212002001	38686	OPERATE		CONCENTRATION. THE CAUSE WAS BLOCKED DRAIN LINES IN THE OFFGAS SYSTEM.	
	02/00/02		_	0111001001	30000	0		A TURBINE TRIP/RX TRIP OCCURRED FOLLOWING THE LOSS OF A UNIT	
								AUXILIARY TRANSFORMER. THE CAUSE WAS AN INTERNAL	
HATCH 1	03/28/01	321	2	3212001002	37869	OPERATE		TRANSFORMER FAULT.	
								A RX SCRAM OCCURRED ON LOW RX WATER VESSEL WATER LEVEL. THE INADVERTENT CLOSURE OF A HIGH PRESSURE FEEDWATER	
								HEATER INLET VALVE ISOLATED ONE OF TWO FEEDWATER	
								LINES. THE CAUSE WAS ATTRIBUTED TO A FAILED VALVE CONTROL	
HATCH 1	01/26/00	321	2	3212000002	36625	OPERATE			
								A TURBINE TRIP/RX SCRAM RESULTED FROM AN INVALID TURBINE BEARING HIGH VIBRATION TRIP SIGNAL. THE TURBINE BEARING	
HATCH 1	07/10/00	321	2	3212000004	37155	OPERATE		VIBRATION INSTRUMENT FAILED.	
	, ==, ==		<u> </u>	123331					
								THE RX WAS MANUALLY SCRAMMED ON DECREASING RX WATER	
								LEVEL FOLLOWING A LOW SUCTION PRESSURE TRIP OF THE	
								OPERATING RX FEED PUMP. THE CAUSE WAS AIR INTRODUCED INTO THE CONDENSATE PUMP SUCTION HEADER THROUGH A LEAKING	
HATCH 1	09/29/00	321	2	3212000011	37390	OPERATE		PUMP SUCTION ISOLATION VALVE.	
								A MAIN GENERATOR RUNBACK OCCURRED DUE TO THE RECEIPT OF A MAIN GENERATOR HIGH TEMPERATURE SIGNAL. A HIGH REACTOR PRESSURE SCRAM OCCURRED DURING THE RUNBACK. THE CAUSE OF THE HIGH GENERATOR TEMPERATURE SIGNAL WAS IMPROPER SET-	
HATCH 2	06/20/09	366	2	3662009003	45145	OPERATE	AUTO	UP OF THE CONTROL INSTRUMENT.	

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			/		Repo	or Multiples ation		Ann Scram Cause I Description	
PLANT MAN	EVENT	DATE			Event.	nt Notification	MODE SCR	Cause L	
PLANT	EVENT	1	SCHET PER	310M Licensee	Eve	nt. Unit	`\	Ann Scram Co	NOTES
						ĺ		THE REACTOR AUTOMATICALLY TRIPPED FOLLOWING A MAIN	
								TURBINE TRIP. THE TURBINE TRIPPED DUE TO HIGH REACTOR WATER	
								LEVEL. THE CAUSE OF THE TRANSIENT WAS A FAILED CAPACITOR IN THE INTERNAL POWER SUPPLY OF THE REACTOR WATER LEVEL	
HATCH 2	06/23/09	366	2	3662009004	45148	OPERATE	AUTO	CONTROLLER.	
	1 1, 1, 1							THE REACTOR TRIPPED ON LOW REACTOR LEVEL FOLLOWING A LOSS	
								OF FEEDWATER. THE FEEDWATER LOSS WAS CAUSED BY LOSS OF THE	
								CONDENSATE DEMINERALIZERS CONTROL DUE TO A PERSONNEL	
HATCH 2	03/07/08	366	2	3662008002	44046	OPERATE	AUTO	ERROR DURING SOFTWARE TESTING.	
								THE REACTOR TRIPPED ON LOW REACTOR WATER LEVEL. THE CAUSE OF THE TRIP WAS A PARTIAL LOSS OF CONDENSATE CAUSED BY LOSS	
								OF NON-VITAL 2D 4160V STATION SERVICE BUS. THE CAUSE OF THE	
								BUS TRIP WAS DETERMINED TO BE INEFFECTIVE EXECUTION OF I&C	
HATCH 2	08/07/07	366	2	3662007008	43552	OPERATE	AUTO	RELAY CALIB.	
								A SCRAM OCCURRED ON A TURBINE CONTROL VALVE FAST CLOSURE	
HATCH 2	04/05/06	266	2	2662006002	12171	ODEDATE	ALITO	RESULTING FROM A POWER LOAD IMBALANCE. THE LICENSEE IS INVESTIGATING THE CAUSE.	
TATCH 2	04/05/06	366		3662006002	424/1	OPERATE	_	CONDENSER TUBE LEAK CAUSED BAD WATER CHEMISTRY. SHUTTING	-
								DOWN FROM 100%, MANUALLY SCRAMMED AT 57%. VOID	
								COLLAPSE RESULTED IN GROUP 2 PCIS ISOLATION. LEVEL RECOVERED	
HATCH 2	05/23/05	366	2	3662005003	41725	OPERATE	MAN	WITH FEEDWATER PUMPS.	
								A SCRAM OCCURRED ON APRM HIGH FLUX FOLLOWING A RAPID	
								INCREASE, AFTER AN UNEXPECTED DECREASE, IN RECIRCULATION PUMP FLOW. THE CAUSE WAS A FAILED AMPLIFIER BOARD IN THE	
HATCH 2	10/26/01	366	2	3662001002	38432	OPERATE		SCOOP TUBE POSITIONER CIRCUIT.	
	10/20/01	300	_	3002001002	30 132	0. 2.0.1.2	7.0.0	JOSEP POR PORTON EN COMPONIO	
								A RX SCRAM OCCURRED ON HIGH NEUTRON FLUX FOLLOWING A	
								RAPID PRESSURE INCREASE RESULTING FROM A SUDDEN MSIV	
HATCH 2	12/25/01	366	2	3662001003	38592	OPERATE		CLOSURE. THE MSIV STEM FAILED FROM HIGH CYCLE FATIGUE.	
								A TURBINE TRIP/REACTOR SCRAM OCCURRED DUE TO A FALSE TURBINE MOISTURE SEPARATOR HIGH WATER LEVEL SIGNAL. THE	
								FALSE SIGNAL WAS MOST LIKELY CAUSED BY A TURBINE TRIP SWITCH	THE CAUSE OF THE SCRAM WAS DO TO A FALSE TURBINE
								BEING BUMPED BY PERSONNEL ERECTING A SCAFOLD IN THE SAME	MOISTURE SEPARATOR HIGH WATER LEVEL SIGNAL,
FORT CALHOUN	12/23/10	285	4	2852010006	46506	OPERATE	AUTO	GENERAL AREA.	WHICH CAUSED A TURBINE TRIP.
								WITH POWER REDUCED TO 85% BECAUSE OF A TURBINE CONTROL VALVE OSCILLATION PROBLEM, THE TURBINE CONTROL VALVES	
FORT CALHOUN	03/15/08	285	4	2852008001	44066	OPERATE		WENT CLOSED AND CAUSED A SUBSEQUENT REACTOR TRIP.	REACTOR TRIPPED ON TURBINE CONTROL VALVE CLOSURE
	03/13/00						7.0.0	A RX TRIP OCCURRED ON LOSS OF LOAD AFTER POWER ROSE RAPIDLY	
								FROM 12 TO 16 PERCENT WITH ALL TURBINE STOP VALVES CLOSED	
								AND TURBINE TESTING IN PROGRESS. THE CAUSE WAS A FEEDWATER	
FORT CALLIQUE	02/26/25	305		2052005001	4444	ODER 4 TE	A 1 1 T C	TRANSIENT RESULTING FROM INADEQUATE PROCEDURES FOR LOW	
FORT CALHOUN	02/26/05	285	4	2852005001	41446	OPEKATE	AUTU	POWER OPERATIONS. THE RX WAS MANUALLY TRIPPED DUE TO UNANTICIPATED NEGATIVE	+
								AXIAL SHAPE INDEX THAT BEGAN TO APPROACH THE RPS TRIP	THE TRIP HAD BEEN BRIEFED BUT WAS NOT PART OF ANY
FORT CALHOUN	09/12/03	285	4	2852003003	40156	OPERATE		SETTINGS.	WRITTEN PREPLANNED SEQUENCE.
								THE REACTOR TRIPPED ON DECREASING REACTOR WATER LEVEL. THE	
								DECREASING LEVEL WAS CAUSED BY A REACTOR FEED PUMP MIN	
								FLOW VALVE FAILING OPEN DUE TO AN ERRONEOUS FLOW SIGNAL	
GRAND GUIF	03/08/10	<u>/</u> 116	1	4162010001	<u>45752</u>	OPERATE		AND THE RFP TRIPPING DUE TO A SPEED DEMAND MIS-MATCH CAUSED BY A LINKAGE BINDING	
GRAND GULF	03/08/10	416	4	4162010001	45753	OPERATE	AUTO	CAUSED BY A LINKAGE BINDING.	

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						A MUTT		Scram Cause Description	
				/ / /	Repu	t Modification		Descri	
MARINE		PATE	/, ,	/. / .	Event	otifical	ODE	/ ause 1	
PLANTHAM	EVENT	DOC.	NET PEC	ion censel	, e	t Wolfica Unit	Me	Scram Co	Martes
P.	/ 🖓	/ 00/	/ RE	/ Lit	\ \\ \xi_{A_1}	JI.	/ 50		, NC
								THE REACTOR WAS MANUALLY SCRAMMED DUE TO DEGRADED COOLING ON THE MAIN TRANSFORMERS. AN ELECTRICAL FAULT ON	
								THE B PHASE POWER CABLE RESULTED IN LOSS OF TRANSFORMER	
GRAND GULF	01/12/08	416	4	4162008001	43899	OPERATE	MAN	COOLING SYSTEM.	
								THE REACTOR TRIPPED FOLLOWING A TURBINE STOP AND CONTROL	
GRAND GULF	03/21/08	416	4	4162008002	44086	OPERATE		VALVE FAST CLOSURE. THE PROBABLE CAUSE WAS A C PHASE DIFFERENTIAL TRIP OF THE MAIN TRANSFORMER.	
G. ii 12 GG 2.	03/21/00					0. 1		A TURBINE TRIP AND SUBSEQUENT REACTOR TRIP OCCURRED	
								FOLLOWING A TURBINE CONTROL VAVE FAST CLOSURE. THE FAST	
								CLOSURE WAS CAUSED BY FAILURE OF THE MAIN GENERATOR	
GRAND GULF	10/26/08	416	4	4162008005	44601	OPERATE	AUTO	VOLTAGE REGULATOR. A REACTOR FEED PUMP SPEED DECREASED TO ZERO RESULTING IN A	
								REACTOR TRIP ON LOW REACTOR LEVEL. THE CAUSE OF THE	
								FEEDWATER FLOW LOSS WAS ACCIDENTAL ISOLATION OF THE STEAM	
GRAND GULF	10/23/08	416	4	4162008004	44595	OPERATE	AUTO	INLET VALVES BY AN OPERATOR.	
								THE REACTOR TRIBBER BUILT TO A TURBUNE TRIB CALLEER BY LOSS OF	
								THE REACTOR TRIPPED DUE TO A TURBINE TRIP CAUSED BY LOSS OF CONDENSER VACUUM. THE LOSS OF VACUUM WAS FROM LEAKS IN	
GRAND GULF	05/19/07	416	4	4162007002	43376	OPERATE	AUTO	THE HIGH PRESSURE CONDENSER EXPANSION JOINT.	
								WITH THE IC TECH GROUP WORKING IN A FEEDWATER CONTROL	
								PANEL, THE "A" FEEDWATER PUMP CONTROLLER FAILED	
CDAND CITIE	09/21/07	416	4	4162007002	42504	ODEDATE		DOWNSCALE, RESULTING IN A LOW REACTOR LEVEL SCRAM. NO	
GRAND GULF	08/21/07	416	4	4102007003	43384	OPERATE	AUTU	DEFINITVE CAUSE HAS BEEN DETERMINED.	
								A RX SCRAM OCCURRED ON LOW RX WATER LEVEL FOLLOWING A	
								LOSS OF FEEDWATER. A PARTIAL LOSS OF OFFSITE POWER OCCURRED	
								WHEN A RACOON SHORTED TWO PHASES OF A SERVICE	
GRAND GULF	02/11/05	416	1	4162005001	41405	ODEDATE	ALITO	TRANSFORMER. THE CAUSE WAS AN ANIMAL INTRUSION FENCE THAT HAD BEEN LEFT DEENERGIZED.	
GRAND GOLF	02/11/05	410	4	4102003001	41403	OPERATE	AUTU	THE RX WAS MANUALLY SCRAMMED ON DECREASING VESSEL WATER	
								LEVEL FOLLOWING A LOSS OF FEED. THE CAUSE WAS AN ELECTRICAL	
								SHORT DURING MAINTENANCE WHICH RESULTED IN ISOLATION OF	
	04 /00 /00	44.6		44.62002004	20540	ODEDATE		ALL OPERATING CONDENSATE DEMINERALIZERS AND THE LOSS OF	
GRAND GULF	01/30/03	416	4	4162003001	39548	OPERATE	MAN	A TURBINE TRIP/RX SCRAM OCCURRED ON A LOSS OF LOAD	
								FOLLOWING A PARTIAL LOSS OF OFFSITE POWER. THE CAUSE WAS A	
GRAND GULF	04/24/03	416	4	4162003002	39793	OPERATE	AUTO	SWITCHYARD FAULT FROM HIGH WINDS.	
								A SCRAM OCCURRED ON A TURBINE CONTROL VALVE FAST CLOSURE	
								FOLLOWING A GROUND FAULT ON THE SECONDARY SIDE OF A SERVICE TRANSFORMER. THE CAUSE WAS A RACCOON BRIDGING THE	
GRAND GULF	06/22/02	416	4	4162002003	39012	OPERATE		34.5 KV PHASE "B" TO A GROUNDED STANCHION.	
								A TURBINE TRIP/SCRAM OCCURRED AS THE RESULT OF A GENERATOR	
CDANID CLII 5	00/07/03	44.5		44.52024.225	20125	00554=-		LOAD TRANSIENT. THE CAUSE WAS THE FAILURE OF A 500 KV	ANI CCE WAS ALSO CODED FOR THIS SHEET (SOCIETY
GRAND GULF	08/07/01	416	4	4162001003	38189	OPERATE	AUIO	DISCONNECT IN AN OFFSITE SWITCHYARD. A RX SCRAM OCCURRED ON A TURBINE CONTROL VALVE FAST	AN SSF WAS ALSO CODED FOR THIS EVENT (EOC-RPT).
								CLOSURE SIGNAL. THE SIGNAL RESULTED FROM A GENERATOR LOAD	
								TRANSIENT CAUSED BY THE FAILURE OF A 500 KV CIRCUIT BREAKER	
GRAND GULF	09/15/00	416	4	4162000005	37325	OPERATE		IN AN OFFSITE SWITCHYARD.	
								LOSS OF 4KV BUS 5 DUE TO A FIRE RESULTED IN LOSS OF REACTOR	
								COOLANT SYSTEM PUMP B AND A SUBSEQUENT REACTOR AND TURBINE TRIP. THE INITIAL FAULT WAS CAUSED BY THE FAILURE OF A	
ROBINSON 2	03/28/10	261	2	2612010002	45799	OPERATE	AUTO	FEEDER CABLE SUPPLYING 4KV BUS 5.	

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						t Munder Unit		And Scram Cause Description	
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PLANT MANNE EVENT	DAT	' /	/ & /		Ener /	Motific	MODE SCR	an Cause	
DIAM! EVEN!	`/	DOC	REG	icense license	Ever	it. UNIT	`_&	and Setam Co	NOTES
				*				THE REACTOR TRIPPED FOLLOWING THE RECEIPT OF AN	
								"OVERTEMPERATURE DELTA-T" SIGNAL. THE CAUSE OF THE	
								OVERTEMPERATURE SIGNAL WAS FAILURE OF THE TURBINE ELECTRO- HYDRAULIC CONTROL SYSTEM, WHICH CAUSED THE FOUR TURBINE	THE REACTOR TRIPPED ON AN OVERTEMPERATURE DELTA-
ROBINSON 2 09/09/10	2	61	2	2612010007	46238	OPERATE	AUTO	· ·	T SIGNAL.
								THE REACTOR TRIPPED WHEN A MOTOR FAULT OCCURRED ON A	
								REACTOR COOLANT PUMP CAUSING A SINGLE LOOP LOW FLOW TRIP. THE ROOT CAUSE OF THIS EVENT WAS INADEQUATE END WINDING	
ROBINSON 2 10/07/10	2	61	2	2612010009	46313	OPERATE	AUTO	BRACING ON THE "C" RCP.	
								THE REACTOR WAS MANUALLY TRIPPER BUE TO GLOSURE OF A MAIN	
								THE REACTOR WAS MANUALLY TRIPPED DUE TO CLOSURE OF A MAIN FEEDWATER REGULATING VALVE. THE CLOSURE WAS CAUSED BY THE	
ROBINSON 2 11/06/09	2	61	2	2612009003	45483	OPERATE	MAN	FAILURE THE FLOW ERROR SIGNAL SUMMATOR POWER SUPPLY.	
								WHILE LOWERING POWER DUE TO INCREASED MAIN-TURBINE	
								VIBRATIONS, THE REACTOR WAS MANUALLY TRIPPED AT 78% POWER, WHEN BEARING VIBRATIONS REACHED THE TRIP CRITERION.	
								MULTIPLE PROBABLE CAUSES FOR THE VIBRATIONS WERE	
ROBINSON 2 11/17/08	2	61	2	2612008002	44660	OPERATE	MAN	IDENTIFIED.	
								THE REACTOR TRIPPED DUE TO A TURBINE TRIP. THE CAUSE OF THE	
ROBINSON 2 05/15/07	2	61	2	2612007001	43364	OPFRATE	AUTO	TURBINE TRIP WAS THE GENERATOR DIFFERENTIAL PROTECTION CIRCUITRY.	
35, 25, 6,									
				2512225				THE REACTOR WAS MANUALLY TRIPPED WHEN THE OPERATORS	
ROBINSON 2 10/25/06	2	61	2	2612006001	42933	OPERATE	MAN	OBSERVED INDICATIONS OF A 100% LOAD REJECTION. THE RX WAS MANUALLY TRIPPED DUE TO AN UNISOLABLE EHC	
								SYSTEM OIL LEAK. THE TUBING FAILURE WAS CAUSED BY CORROSION	
								FATIGUE INITIATED AT A DEFECT ON THE OUTER DIAMETER SURFACE	
ROBINSON 2 06/21/00	2	61	2	2612000001	37098	OPERATE	MAN	OF THE TUBE. THE REACTOR WAS MANUALLY SCRAMMED DUE TO FAILURE OF THE	
								TURBINE AUXILARY COOLING SYSTEM. THE CAUSE OF THE LOSS WAS	
								FAILURE OF A SOLENOID VALVE ON THE TACS SUPPLY ISOLATION	
HOPE CREEK 01/17/09	3	54	1	3542009001	44784	OPERATE	MAN	VALVES.	
								THE REACTOR AUTOMATICALLY TRIPPED ON THE REACTOR VESSEL LEVEL TWO SECONDS PRIOR TO THE MODE SWITCH BEING PLACED IN	
								SHUTDOWN DUE TO MULTIPLE CONTROL RODS DRIFTING. THE	
								CONTROL RODS WERE DRIFTING DUE TO AN AIR LEAK IN A	
HOPE CREEK 05/17/09	3	54	1	3542009004	45074	OPERATE	AUTO	HYDRAULIC CONTROL UNIT. AN AUTOMATIC SCRAM OCCURRED DUE TO LOW REACTOR WATER	
								LEVEL. THE LOW LEVEL WAS CAUSED BY THE REACTOR FEED PUMP	
								MINIMUM FLOW RECIRCULATION VALVE OPENING IN RESPONSE TO	
HOPE CREEK 01/29/07	3	54	1	3542007001	43132	OPERATE	AUTO	A FAILED INSTRUMENT TAP WELD.	
								AN ELECTRICAL TRANSIENT RESULTED IN LOSS OF THE REACTOR FEED PUMPS. THE REACTOR WAS MANUALLY TRIPPED DUE TO LOWERING	
HOPE CREEK 05/29/07	3	54	1	3542007002	43395	OPERATE	MAN	REACTOR LEVEL.	
		T	Ţ					THE RX WAS MANUALLY SCRAMMED WHEN DRYWELL FLOOR DRAIN	
								LEAKAGE INCREASED TO GREATER THAN 10 GPM. THE CAUSE WAS A 285 DEGREE CIRCUMFERENTIAL CRACK IN THE POSITION INDICATING	
HOPE CREEK 06/07/05	3	54	1	3542005003	41753	OPERATE	MAN	TUBE FOR THE RHR CHECK VALVE.	
								THE RX WAS MANUALLY SCRAMMED WHEN TWO INBOARD MSIVS	
								WERE OBSERVED DRIFTING CLOSED FROM A LOSS OF PNEUMATIC PRESSURE AS A RESULT OF AN INVALID CONTAINMENT ISOLATION	
								SIGNAL. THE CAUSE WAS A LOOSE RADIATION MONITOR ELECTRICAL	
HOPE CREEK 01/12/04	. 3	54	1	3542004001	40437	OPERATE	MAN	CONTACT.	

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					200	A MIL		Scram Cause Description	
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PLANT WAN	he Event	DAI	(KET	GION licensee		A MOETH	MODE	and Arcaus	<u> </u>
PLAT	EVEL	14	OCHET RE	Gi liceil	Eng.	JMI.	ر چرو	Scram Co	MOTES
								THE RX WAS MANUALLY SCRAMMED DUE TO A STEAM LEAK IN THE	
HOPE CREEK	10/10/04	354	1	3542004010	/11109	OPERATE	ΜΔΝ	TURBINE BUILDING. THE CAUSE WAS FAILURE OF A MOISTURE SEPARATOR DUMP LINE TO THE CONDDENSER.	
HOTE CHEEK	10/10/04	334		3342004010	41103	OFLINATE	IVIAIN	SELAKATOR DOWN LINE TO THE CONDDENSER.	+
								A RX SCRAM OCCURRED ON LOW RX WATER LEVEL FOLLOWING A	
								PARTIAL LOSS OF OFFSITE POWER AND THE LOSS OF TWO OF THREE RFP'S. THE CAUSE WAS SALT DEPOSITS IN THE SWITCHYARD	
HOPE CREEK	09/19/03	354	1	3542003007	40185	OPERATE		RESULTING IN A FLASH-OVER OF A 500 KV INSULATOR.	
								THE RX WAS MANUALLY SCRAMMED DUE TO AN EHC SYSTEM OIL	
								LEAK ASSOCIATED WITH A COMBINED INTERMEDIATE CONTROL	
HOPE CREEK	10/04/03	354	1	3542003008	40224	OPERATE	MAN	VALVE. THE VALVE WAS NOT PROPERLY REASSEMBLED FOLLOWNG MAINTENANCE.	
								A RX SCRAM/TURBINE TRIP OCCURRED ON HIGH MOISTURE	
								SEPARATOR LEVEL THAT RESULTED FROM THE TRIP OF A SECONDARY	
								CONDENSATE PUMP AND INTERMEDIATE RUNBACK OF THE RX RECIRCULATION PUMPS. A FAILED LOGIC CARD CAUSED THE	
HOPE CREEK	06/22/02	354	1	3542002004	39010	OPERATE		CONDENSATE PUMP TRIP.	
								THE REACTOR TRIPPED FOLLOWING A MAIN GENERATOR TRIP. THE MAIN GENERATOR TRIP WAS DUE TO LOSS OF EXCITATION CAUSED	
								BY A SERIES OF PERSONNEL ERRORS WHEN ISOLATING ONE OF THE	
INDIAN POINT 2	01/11/10	247	1	2472010001	45624	OPERATE	+	RECTIFIERS FOR MAINTENANCE.	
								WHILE REDUCING POWER FOR SHUTDOWN, THE REACTOR AUTOMATICALLY SCRAMMED FOLLOWING A TURBINE TRIP DUE TO	
								HIGH STEAM GENERATOR LEVEL. THE ROOT CAUSE OF THE TRIP WAS	
								INADEQUATE DESIGN CONTROL OF THE SETTINGS OF CRITICAL PLANT	
INDIAN POINT 2	09/03/10	247	1	2472010007	46229	OPERATE	AUTO	CONTROLLERS. AN EXPLOSION IN THE 21 MAIN TRANSFORMER RESULTED IN A	<u> </u>
								TURBINE TRIP AND REACTOR TRIP. THE EXPLOSION WAS CAUSED BY	
								A LOW IMPEDANCE GROUND FAULT ON THE TRANSFORMER PHASE B	;
INDIAN POINT 2	11/07/10	247	1	2472010009	46400	OPERATE	AUTO		
								THE REACTOR WAS MANUALLY TRIPPED FROM 100% POWER FOLLOWING THE LOSS OF A MAIN BOILER FEED PUMP. FOLLOWING	
								THE MBFP TRIP, THE TURBINE RUNBACK CIRCUIT DID NOT ACTUATE	
INIDIANI DOINT 2	0.4/02/00	245		2.472000000	44067	0050475		AS EXPECTED. THE MBFP FAILED DUE TO A TUBING FAILURE IN THE	
INDIAN POINT 2	04/03/09	247		24/2009002	44967	OPERATE	IVIAN	AUTOSTOP OIL TUBING. THE REACTOR TRIPPED FOLLOWING A MAIN TURBINE TRIP. THE	+
								TURBINE TRIPPED DUE TO A GENERATOR LOCKOUT RELAY	
	44/02/00	24-		2.472000005	45.47.4	0050475		ACTUATION. THE LOCKOUT RELAY ACTUATION WAS DUE TO A HIGH	
INDIAN POINT 2	11/02/09	247	1 1	24/2009005	45474	OPERATÉ	AUIO	RESISTANCE GROUND ON THE POWER SUPPLY. THE REACTOR WAS MANUALLY TRIPPED DUE TO LOSS OF SPEED	+
								CONTROL ON A MAIN BOILER FEED PUMP RESULTED IN LOWERING	
INDIAN POINT 2	03/23/08	247	1	2472008001	44089	OPERATE	MAN	STEAM GENERATOR LEVELS.	
								WHILE ASCENDING POWER AT 37%, A MAIN TURBINE RUNBACK RESULTED IN DECREASING STEAM GENERATOR LEVELS. THE	
								OPERATOR MANUALLY TRIPPED THE REACTOR. THE CAUSE OF THE	
	0 - /- /-							MAIN TURBINE RUNBACK WAS A FAILED BISTABLE IN THE RUNBACK	
INDIAN POINT 2	04/21/08	247	<u>' 1</u>	2472008003	44153	OPERATE	MAN	CIRCUIT.	+
								THE REACTOR WAS MANUALLY SCRAMMED ON LOWERING STEAM	
								GENERATOR LEVELS. A FAILED PRESSURE TRANSMITTER IN THE	
								COMMON MAIN FEEDWATER SUPPLY HEADER CAUSED A CUTBACK OF BOTH MAIN FEEDWATER PUMPS, RESULTING IN DECREASING	
INDIAN POINT 2	02/28/07	247	, 1	2472007004	43199	OPERATE	MAN	STEAM GENERATOR LEVELS.	
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					, epo	A MUT		25cithion.	
lam	k /	ate			Event Re	atification	ODE	nuse I De	
PLANT MAN	k Euent	0.	SCHE! PER	GION Licensee	Eve	thumber of the state of the sta	MODE	And Scram Cause I Description	MOTES
		•						THE RX WAS MANUALLY TRIPPED ON INDICATION OF TWELVE DROPPED RODS. A MANUAL DISCONNECT SWITCH FOR THE RODS	
								POWER SUPPLY WAS INADVERTENTLY OPENED DURING AREA	
INDIAN POINT 2	03/01/06	247	1	2472006001	42378	OPERATE	MAN	SCAFFOLD WORK.	
								THE REACTOR WAS MANUALLY TRIPPED AT 68% WHILE REDUCING POWER FROM 100% DUE TO PRIMAARY POWER AND SECONDARY	
								LOAD MISMATCH. THE EVENT WAS INITIATED WHEN HEATER DRAIN	
INDIAN DOINT 2	09/22/06	247	1	2472006003	42707	ODEDATE	NAANI	TANK PUMPS 21 AND 22 TRIPPED DUE TO FAILURE OF THE	
INDIAN POINT 2	08/23/06	247	1	2472006003	42/9/	OPERATE	1	AUTOMATIC HEATER DRAIN LEVEL CONTROL. WHILE TROUBLESHOOTING THE MAIN GENERATOR EXCITER POWER	
INDIAN POINT 2	44 /45 /06	247		2472000005	42002	0050475		SUPPLY, AN ELECTRICAL SPIKE RESULTED IN A TURBINE TRIP, WHICH	
INDIAN POINT 2	11/15/06	247	1	2472006005	42993	OPERATE	AUTO	CAUSED A REACTOR SCRAM.	
								THE RX WAS MANUALLY TRIPPED ON DEGRADING FEEDWATER FLOW	
								AND SG LEVEL CONDITIONS AFTER A FEEDWATER REGULATING VALVE BEGAN OPERATING ERRATICALLY. THE CAUSE OF THE VALVE	
INDIAN DOINT 2	00/01/04	247	1	2472004001	41002			FAILURE WAS THE VALVE CAGE BECAME LOOSE DUE TO INADEQUATE	
INDIAN POINT 2	09/01/04	247	1	2472004001	41003	OPERATE	IVIAN	MAINTENANCE PROCEDURE GUIDE.	
								THE RX WAS MANUALLY TRIPPED ON DEGRADING FW FLOW AND SG	
								WATER LEVEL AFTER A MAIN FW REGULATING VALVE FAILED SHUT. THE CAUSE WAS DISCONNECTED WIRING FROM THE VALVES	
INDIAN POINT 2	09/24/04	247	1	2472004002	41066	OPERATE	MAN	SOLENOID OPERATOR DUE TO IMPROPER SOLENOID ORIENTATION.	
								A RX/TURBINE TRIP OCCURRED FOLLOWING A LOSS OF STATOR	
								WATER COOLING. THE CAUSE WAS AN INCORRECT PRESSURE SWITCH	
INDIAN POINT 2	11/26/04	247	1	2472004005	41227	OPERATE		SETTING RESULTING FROM INADEQUATE PROCEDURES AND INADEQUATE TESTING FOLLOWING EXTENSIVE MODIFICATIONS.	
								A TURBINE/RX TRIP OCCURRED DURING A PARTIAL LOSS OF OFFSITE	ALL 3 EDGS STARTED AND THE NONSAFETY BUSES 2A AND
								POWER AFTER OUTPUT BREAKER "9" OPENED. THE CAUSE WAS A GRID DISTURBANCE FOLLOWED BY A SWITCHYARD RELAY	3A WERE MANUALLY ENERGIZED BY EDG 22. THE SAFETY BUSES 5A AND 6A REMAINED ENERGIZED FROM OFFSITE
INDIAN POINT 2	04/28/03	247	1	2472003003	39804	OPERATE	_		SOURCES.
								A TURBINE/RX TRIP OCCURRED DURING A LOSS OF ALL LOAD DUE TO AN OFFSITE ELECTRICAL DISTURBANCE INITIATED BY A LIGHTNING	
INDIAN POINT 2	08/03/03	247	1	2472003004	40045	OPERATE	_		
								A RX SCRAM OCCURRED ON LOW RX COOLANT LOOP FLOW FOLLOWING A LOSS OF OFFSITE POWER. THE CAUSE WAS A MAJOR	
INDIAN POINT 2	08/14/03	247	1	2472003005	40067	OPERATE		GRID DISTURBANCE AND BLACKOUT.	
								A TURBINE/RX TRIP OCCURRED ON A LOSS OF LOAD. THE CAUSE WAS FAILURE OF AN OFFSITE BLOCKING RELAY AND RESULTING GRID	
								DISTURBANCE ON THE NORTH 345 KV RING BUS AT THE BUCHANAN	
INDIAN POINT 2	12/26/01	247	1	2472001007	38593	OPERATE		SWITCHYARD. THE RX WAS MANUALLY TRIPPED FOLLOWING A SG TUBE RUPTURE.	
INDIAN POINT 2	02/15/00	247	1	2472000001	36695	OPERATE		THE FAULTED SG WAS ISOLATED.	
								THE REACTOR WAS MANUALLY TRIPPED FOLLOWING INDICATION OF	
INDIAN POINT 3	09/09/10	286	1	2862010002	46241	OPERATE	MAN	A SERVICE WATER LEAK IN THE MAIN GENERATOR EXCITER HOUSING.	
								THE REACTOR WAS MANUALLY TRIPPED WHEN A MAIN FEED	
								REGULATING VALVE FAILED OPEN AND COULD NOT BE CORRECTED.	
								THE LOSS OF FEED REG VALVE CONTROL WAS CAUSED BY A DISCONNECTED VALVE POSITION FEEDBACK LINK THAT FAILED DUE	
INDIAN POINT 3	05/15/09	286	1	2862009003	45069	OPERATE		TO AN INADEQUATE MAINTENANCE PROCEDURE	

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PLANT NAME	(DATE			Event.	t Motification	NODE /	Cause	
PLANT	EVENT	700	CHET	ilOM licensee	Ever	it M UNIT	MODE	Scramco	NUTES
								WHILE LOWERING POWER DUE TO EXCESSIVE FEEDWATER PUMP	
								VIBRATIONS, A TURBINE TRIP AND SUBSEQUENT REACTOR TRIP OCCURRED DUE TO HIGH LEVEL IN A STEAM GENERATOR. THE CAUSE	
INDIAN POINT 3	05/28/09	286	1	2862009004	4E008	ODEDATE		OF THE STEAM GENERATOR LEVEL EXCURSION WAS DUE TO A FWRV CONTROLLER SATURATION.	
INDIAN FOINT 3	03/28/09	200	1	2802003004	43036	OFLINATE	AOTO	CONTROLLER SATURATION.	
								THE REACTOR TRIPPED FOLLOWING A TURBINE TRIP DURING A THUNDERSTORM. THE CAUSE OF THE TURBINE TRIP WAS ACTUATION	
INDIAN POINT 3	08/10/09	286	1	2862009006	45255	OPERATE		OF THE GENERATOR PROTECTION PRIMARY LOCKOUT RELAY.	
								THE REACTOR TRIPPED FOLLOWING A TURBINE TRIP. THE CAUSE OF THE TURBINE TRIP WAS LOSS OF TURBINE AUTOSTOP OIL PRESSURE.	
								THE LOSS OF OIL WAS CAUSED BY A FAILED FITTING IN THE LINE	
INDIAN POINT 3	08/27/09	286	1	2862009007	45306	OPERATE		CONNECTING THE AUTOSTOP OIL TO THE TURBINE TRIP SOLENIOD TRIP DEVICE.	
INDIANT OINT S	08/27/03	200		2002003007	43300	OFLICATE	7010	THE REACTOR WAS MANUALLY TRIPPED DURING BOILER FEED PUMP	
								MAINTENANCE WHEN LOW STEAM GENERATOR LEVELS OCCURRED. WITH ONE PUMP DEENERGIZED FOR MAINTENANCE, THE LOGIC	
								CONTROL FOR THE RUNNING PUMP FAILED DUE TO A LOGIC POWER	
INDIAN POINT 3	04/03/07	286	1	2862007001	43272	OPERATE		SUPPLY FAILURE. AN EXPLOSION AND FIRE IN THE MAIN TRANSFORMER RESULTED IN A	
								LOAD REJECTION OF THE MAIN GENERATOR AND A REACTOR TRIP.	
INDIAN POINT 3	04/06/07	200	1	2002007002	42205	ODEDATE		THIS EVENT WAS CAUSED BY A FAULT IN THE TRANSFORMER'S 345KV	
INDIAN POINT 3	04/06/07	286	1	2862007002	43283	OPERATE		PHASE B BUSHING. A RX TRIP OCCURRED ON GENERATOR PHASE 'B' DIFFERENTIAL	
INDIAN DOINT 2	07/06/06	200	1	2002000001	42007	ODEDATE		CURRENT. THE EVENT WAS CAUSED BY A SHORT CIRCUIT IN A MAIN	
INDIAN POINT 3	07/06/06	286	1	2862006001	42687	OPERATE		GENERATOR JUNCTION BOX. SCAFFOLDING ERECTED IN THE VICINITY OF THE MAIN TURBINE	
								GENERATOR CAUSED ARCING FROM THE GENERATOR PHASES A&B.	
INDIAN POINT 3	07/21/06	286	1	2862006002	42720	OPERATE	MAN	THIS RESULTED IN THE OPERATOR MANUALLY TRIPPING THE REACTOR.	
								A RX TRIP OCCURRED ON A STEAM FLOW/FEED FLOW MISMATCH	
								SIGNAL WHEN THE CONDENSATE POLISHER POST FILTER BYPASS VALVE CLOSED DURING TROUBLESHOOTING ACTIVITIES. THE CAUSE	
INDIAN POINT 3	05/06/05	286	1	2862005002	41673	OPERATE	AUTO	WAS A MISPOSITIONED SWITCH.	
								THE RX WAS MANUALLY TRIPPED DUE TO A SERVICE WATER LEAK IN	
INDIAN DOINT 2	06/40/05	200	1	2002005004	41762	ODEDATE		THE MAIN GENERATOR EXCITER. THE CAUSE WAS A SPLIT GASKET ON	
INDIAN POINT 3	06/10/05	286	1	2862005004	41/62	OPERATE	IVIAN	THE EXCITER COOLER DUE TO OVERTIGHTENED BOLTS.	
								THE RX WAS MANUALLY TRIPPED ON HIGH DIFFERENTIAL PRESSURE	
								BETWEEN CONDENSER SECTIONS FOLLOWING THE LOSS OF BOTH CIRC WATER PUMPS IN ONE CONDENSER SECTION. ONE PUMP WAS	
INDIAN DOINT 2	01/12/02	200	4	2062002004	20500			OUT OF SERVICE FOR MAINTENANCE WHEN THE OTHER TRIPPED	
INDIAN POINT 3	01/13/03	286	1	2862003001	39506	OPEKATE	IVIAN	FROM A SHORTED DC EXCITER LEAD. THE RX WAS MANUALLY TRIPPED DUE TO A CLASS B FIRE AT THE	
								SOUTH END OF THE HIGH PRESSURE TURBINE. THE CAUSE WAS HEAT	
INDIAN POINT 3	04/29/03	286	1	2862003002	39808	OPERATE		OF THE TURBINE CASING IGNITING LUBE OIL THAT HAD LEAKED AND SOAKED TURBINE INSULATING PADS.	
								A TUDDINE /DY TOID OCCUIDDED AFTER A CENERATOR TRUE A CALUT	
								A TURBINE/RX TRIP OCCURRED AFTER A GENERATOR TRIP. A FAULT OCCURRED WHILE ATTEMPTING TO CLOSE THE 345 KV CIRCUIT	
								BREAKER NUMBER THREE FOLLOWING MAINTENANCE. THE CAUSE WAS MOISTURE OR CONTAMINATION COMPROMISED THE BREAKER	
INDIAN POINT 3	06/22/03	286	1	2862003003	39955	OPERATE		DIELECTRIC GAS.	

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P. LAWI MANN	k EVENT	DATE	CKET REC	JON licensee	Event Repo	At Multiple to The Market State of The State	MODE SC	ARM Scram Cause I Description	, is
PLAT	EVE	\ \dol{\phi}{\phi}	DE PER	iicer.	Ene,	JMI.	ر چر	scis.	MOTES
								A RX TRIP OCCURRED ON LOW RCS FLOW FOLLOWING A LOSS OF	
	00/44/00	200		20020000	40000	0050475		OFFSITE POWER. THE CAUSE WAS A MAJOR GRID DISTURBANCE AND	
INDIAN POINT 3	08/14/03	286	1	2862003005	40069	OPERATE	AUTO	BLACKOUT.	
								A RX TRIP OCCURRED ON A GENERATOR LOCKOUT AFTER A 345 KV	
								MAIN OUTPUT BREAKER FAILED OPEN. THE BREAKER	
								CATASTROPHICALLY FAILED DUE TO HIGH CONTACT RESISTANCE	
INDIAN POINT 3	11/15/02	286	1	2862002003	39375	OPERATE	AUTO	CAUSED BY MISALIGNMENT FROM POOR VENDOR WORKMANSHIP.	
								A RX TRIP OCCURRED ON A LOW SG WATER LEVEL FOLLOWING A	
								FEEDWATER TRANSIENT AND TURBINE TRIP. A LICENSED OPERATOR	
								FAILED TO PROPERLY CONTROL FEEDWATER PUMP SPEED WHILE	
								DIRECTING AN OPERATOR TRAINEE WHO WAS CONTROLLING THE	
INDIAN POINT 3	06/04/00	286	1	2862000007	37054	OPERATE	AUTO	FEEDWATER REGULATING VALVES.	
								A TURBINE TRIP/RX TRIP OCCURRED FOLLOWING A MAIN	
								GENERATOR TRIP AND LOCKOUT. THE CAUSE WAS LOW INSULATION RESISTANCE BETWEEN SEVERAL CONDUCTORS IN A CABLE ROUTED	
INDIAN POINT 3	06/09/00	286	1	2862000008	27071	ODEDATE	ALITO	BETWEEN THE SITE AND THE BUCHANAN SUBSTATION.	
INDIAN FOINT 3	00/03/00	200	1	2802000008	3/0/1	OFLINATE	AUTU	HIGH WINDS RESULTED IN DEBRIS CAUSING LOWERING INTAKE	
								CANAL LEVEL DUE TO PLUGGING OF THE TRAVELING SCREENS AND	
								TRASH BASKETS. THE OPERATOR BEGAN A RAPID POWER	
								REDUCTION. THE REACTOR WAS MANUALLY TRIPPED WHEN THE	
FITZPATRICK	09/12/07	333	1	3332007002	43635	OPERATE	MAN	INTAKE LEVEL DROPPED TO 240 FEET.	
								THE REACTOR WAS MANUALLY SCRAMMED WHEN THE TRAVELING	
FITZPATRICK	10/28/07	333	1	3332007002	43752	OPERATE	MAN	WATER SCREENS BECAME BLOCKED WITH DEBRIS.	
								A SCRAM OCCURRED ON LOW RX VESSEL LEVEL FOLLOWING A	
								MOMENTARY LOSS OF UPS AND RESULTING LOCKOUT OF THE RX	
								FEED PUMP CONTROLS. THE CAUSE WAS OPERATOR ERROR	
EITZD A TOLOK	00/44/05	222	4	2222005005	44007	0050475		RESPONDING TO THE TRANSIENT WITH CONTRIBUTION FROM AN	
FITZPATRICK	09/14/05	333	1	3332005005	41987	OPERATE	AUTU	INADEQUATE ABNORMAL OPERATING PROCEDURE. A RX SCRAM OCCURRED ON A TURBINE CONTROL VALVE FAST	+
								CLOSURE. THE CAUSE WAS A MAJOR GRID DISTURBANCE AND	
FITZPATRICK	08/14/03	333	1	3332003001	40072	OPERATE	AUTO	BLACKOUT.	
								A RX SCRAM OCCURRED ON A MANUAL TURBINE TRIP DUE TO	
								DECREASING CONDENSER VACUUM. DURING RECOMBINER	
								MAINTENANCE, THE BYPASS VALVE FAILED CLOSED, ISOLATING THE	
								OFF GAS SYSTEM. THE CAUSE WAS AN AGE-RELATED FAILURE OF THE	
FITZPATRICK	04/01/00	333	1	3332000003	36853	OPERATE	AUTO	ASSOCIATED SOLENOID OPERATED VALVE.	
								THE REACTOR TRIPPED FROM 100% POWER. A FAULT IN THE	
								SWITCHYARD RESULTED IN A VOLTAGE DROP THAT CAUSED A LOSS OF BREAKER POSITION INDICATION. THIS RESULTED IN THE REACTOR	
								TRIPPING ON AN RCP BREAKER OPEN SIGNAL, EVEN THOUGH THE	
FARLEY 1	11/19/08	348	2	3482008004	44666	OPERATE	AUTO	·	
	,_5,55				1350		1		†
								A TURBINE/RX TRIP OCCURRED ON HIGH SG WATER LEVEL	
								FOLLOWING A FEED SYSTEM TRANSIENT. THE LEAD LAG CARD IN THE	
								SG FEEDWATER PUMP MASTER SPEED CONTROL CIRCUIT FAILED,	
FARLEY 1	03/01/04	348	2	3482004001	40558	OPERATE	AUTO	CAUSING A RAMP INCREASE IN THE SPEED OF BOTH SG FEED PUMPS.	

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OLANT.	EVENT		SCHE! REC	ilOM licensee	cye.	AL INT	MODE	general Secretarios Michies
		/ V		,	/ V		/ 3	
								A RX TRIP OCCURRED ON INDICATED LOSS OF RCS FLOW WHEN THE
								"B" RCP BUS UNDERVOLTAGE RELAYS DROPPED OUT DUE TO A SHORTED POWER LEAD AND THE "A" RCP BUS UNDERVOLTAGE
								RELAYS WERE TRIPPED FOR TESTING. THE POWER LEAD WAS
FARLEY 1	05/03/02	348	2	3482002001	38895	OPERATE	AUTO	INADVERTENTLY SHORTED DURING REPAIR.
								THE RX WAS MANUALLY TRIPPED WHEN A ROD DROPPED 24 STEPS.
FARLEY 1	10/15/02	240		3482002002	20201	OPERATE	NAANI	THE CAUSE WAS AN OPEN FAILURE OF THE MOVABLE GRIPPER COIL AFW AUTO STARTED IN RESPONSE TO THE FEED PUMPS TRIP.
FARLEY I	10/15/02	348	2	3482002002	39291	OPERATE	IVIAIN	THE RX WAS MANUALLY TRIPPED ON DECREASING SG WATER LEVEL
								AFTER ALL MAIN FEEDWATER PUMP CONTROL VALVES CLOSED. THE
								CAUSE WAS A LOSS OF CONTROL POWER TO THE FEEDWATER PUMPS
								FROM UNINTENTIONAL SWITCH CONTACT BY PLANT FACILITIES
FARLEY 1	12/10/02	348	2	3482002004	39433	OPERATE	MAN	PERSONNEL.
1								A RX TRIP OCCURRED ON LOW SG LVL. DURING A TURBINE
								BALANCING EVOLUTION, EHC PRESSURE DROPPED BELOW THAT
								REQUIRED FOR MFP OPERATION. SG LVL WAS STABILIZED WITH AUX
								FEED PUMPS. HOWEVER, THE STEAM DUMPS CLOSED AND SG LVL
FARLEY 1	05/28/00	348	2	3482000006	37041	OPERATE	AUTO	
								THE REACTOR WAS MANUALLY TRIPPED ON LOWERING STEAM GENERATOR LEVEL WHEN POWER AND CONTROL TO A FEED REG
								VALVE WAS LOST. THE CAUSE OF THE FAILURE WAS FAILURE OF A
								CONTROLLER DRIVER CARD IN THE FEED REG VALVE CONTROLLER
FARLEY 2	05/22/10	364	. 2	3642010002	45946	OPERATE	MAN	CIRCUIT.
								THE REACTOR TRIPPED DUE TO LOSS OF A REACTOR COOLANT PUMP
								BREAKER INDICATION. THE NON-VITAL BUS WAS LOST DUE TO THE
FARLEY 2	10/03/07	364	. 2	3642007001	43687	OPERATE	AUTO	STARTUP TRANSFORMER TRIPPING. UNIT 1 WAS PERFORMING RELAY TESTING AT THE TIME.
7,1112.1.2	10/03/07	- 50 .	_	3012007001	13007	0. 2.0.1.2	7.0.0	A RX TRIP OCCURRED ON A SOURCE RANGE HIGH FLUX SIGNAL
								RESULTING FROM THE INTERMITTENT FAILURE OF A UNIVERSAL
								LOGIC CARD IN THE "B" TRAIN SOLID STATE PROTECTION SYSTEM.
EADLEV 2	04/11/04	264		2642004004	10666	CTARTUR	ALITO	THE CAUSE WAS NOT DISCOVERED UNTIL A SECOND TRIP OCCURRED
FARLEY 2	04/11/04	364		3642004004	40000	STARTUP	AUTU	ON 4/12/04.
								A RX TRIP OCCURRED ON AN INVALID SOURCE RANGE HIGH FLUX
								TRIP SIGNAL DURING LOW POWER PHYSICS TESTING. THE CAUSE
								WAS THE INTERMITTENT FAILURE OF A UNIVERSAL LOGIC CARD IN
FARLEY 2	04/12/04	364	2	3642004004	40667	STARTUP	AUTO	THE "B" TRAIN SSPS. THIS IS THE SECOND OF TWO SIMILAR EVENTS.
								A RX TRIP OCCURRED ON AN INDICATED (NOT ACTUAL) RCP BREAKER OPEN POSITION SIGNAL. ALL THREE RCPS REMAINED RUNNING. THE
								CAUSE WAS A MOMENTARY LOSS OF VOLTAGE ON THE "2A" 120 VAC
FARLEY 2	11/10/03	364	. 2	3642003001	40309	OPERATE	AUTO	VITAL INSTRUMENT BUS INVERTER.
								A TURBINE/RX TRIP RESULTED FROM A MAIN GENERATOR
								OVERCURRENT TRIP. THE GENERATOR NEUTRAL TRANSFORMER ELECTRICAL CONNECTION BOLT HAD BEEN OVERTORQUED AND
								SUBSEQUENTLY FAILED. THE CAUSE WAS A COMBINATION OF
FARLEY 2	06/23/01	364	. 2	3642001001	38089	OPERATE	AUTO	PERSONNEL ERROR AND INADEQUATE PROCEDURE.

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PLANTHAME	EVENT	DATE	CHET PE	310M licensee	Ever	t Mumber Unit	MODE SCR	And Scram Cause Description	MOTES
								A TURBINE/RX TRIP OCCURRED WHEN THE TURBINE LATCH PUSH	
								BUTTON WAS DEPRESSED AND RELEASED DURING REPLACEMENT.	
								THE LATCH MECHANISM OVER TRAVELED PAST THE NEUTRAL POSITION TO THE TRIP POSITION. THE CAUSE WAS AN EQUIPMENT	
FARLEY 2	06/26/01	364	2	3642001002	38095	OPERATE		DEFICIENCY IN THE LATCH MECHANISM.	
								A TURBINE/RX TRIP OCCURRED ON HIGH SG LEVEL DURING A	
								FEEDWATER TRANSIENT. THE TRANSIENT WAS INITIATED BY A FAILED FWP SPEED CONTROL CIRCUIT. AN OPERATOR TOOK MANUAL	
								CONTROL OF MFPS, BUT DUE TO SLUGGISH FRV RESPONSE, ONE SG	
FARLEY 2	11/16/00	364	2	3642000004	37527	OPERATE		WAS SUBSEQUENTLY OVERFED.	
								WHILE PERFORMING MONTHLY TURBINE TRIP MECHANISM TESTING, THE TURBINE TRIPPED RESULTING IN A REACTOR SCRAM. THE CAUSE	
								OF THE TURBINE TRIP WAS LOSS OF AUTO STOP OIL PRESSURE TO	
KEWAUNEE	01/12/07	305	3	3052007001	43096	OPERATE		THE INTERFACE VALVE.	
								A DEACTOR TRIP OCCURRED DURING SURVEULANCE TESTING OF THE	A REACTOR TRIP OCCURRED DURING SURVEILLANCE
								A REACTOR TRIP OCCURRED DURING SURVEILLANCE TESTING OF THE NUCLEAR POWER RANGE INSTRUMENTS. THE TRIP WAS CAUSED BY	THE TRIP WAS CAUSED BY A FAILED RELAY CONTACT IN
								FAILED RELAY CONTACTS IN THE RPS MATRIX ASSOCIATED WITH THE	THE RPS MATRIX ASSOCIATED WITH NUCLEAR
KEWAUNEE	02/27/07	305	3	3052007004	43196	OPERATE		NUCLEAR INSTRUMENTATION.	INSTRUMENTATION.
								THE RX WAS MANUALLY TRIPPED AFTER THE ONLY OPERATING FEEDWATER PUMP TRIPPED AND AN AUTOMATIC TURBINE TRIP DID	
								NOT OCCURR AS EXPECTED. AN ERRONEOUS PUMP RUNNING INPUT	
KEWAUNEE	04/26/06	305	3	3052006001	42530	OPERATE	MAN	WAS THE CAUSE.	
								LOSS OF INSTRUMENT BUS 1 DURING MAINTENANCE RESULTED IN	
								AN AUTOMATIC REACTOR TRIP SIGNAL ON STEAM FLOW/FEED FLOW	
								MISMATCH COINCIDENT WITH LOW SG LEVEL. THIS EVENT WAS	
KEWAUNEE	10/30/06	305	3	3052006012	12017	ODERATE		CAUSED BY LOSS OF AN INSTRUMENT BUS INVERTER DURING PREVENTIVE MAINTENANCE.	
REWAUNCE	10/30/00	303		3032000012	42347	OFERATE		WHILE SHUTTING DOWN AT 10% POWER WITH ONE NI LOW RANGE	
								HIGH POWER TRIP BISTABLE TRIPPED FOR AN UNRELATED FAILURE, A	
KEWAUNEE	11/10/06	305	2	2052006012	12082	ODEDATE		SPURIOS TRIP OF THE OTHER BISTABLE RESULTED IN AN AUTOMATIC REACTOR TRIP.	
REWAUNEE	11/10/06	303	3	303200013	42303	OPERATE	AUTU	REACTOR TRIP.	
								A RX TRIP OCCURRED ON LOW SG WATER LEVEL AFTER A MAIN	
KEWAUNEE	11/28/05	305	2	2052005016	12172	ODEDATE		FEEDWATER PUMP TRIPPED ON OVER CURRENT. THE CAUSE WAS A SHORT TO GROUND IN ALL THREE PHASES OF THE MOTOR.	
REWAUNEE	11/20/03	303	3	3032003010	421/3	OPERATE	AUTU	SHORT TO GROUND IN ALL THREE PHASES OF THE MICTOR.	
								A RX TRIP OCCURRED ON STEAM FLOW FEED FLOW MISMATCH	
								COINCIDENT WITH A LOW STEAM GENERATOR WATER LEVEL. A	
KEWAUNEE	06/20/01	305	3	3052001004	38080	OPERATE		FEEDWATER REGULATING VALVE FAILED CLOSED WHEN THE ASSOCIATED AIR VOLUME BOOSTER DIAPHRAGM TORE.	
	, ,,==			. : 5=33				THE RX WAS MANUALLY TRIPPED ON AN INVALID HIGH RCP BEARING	
KENAJALINIEE	00/00/00	205		205200000	27000	ODEDATE		TEMPERATURE INDICATION. THE CAUSE WAS A FAILED RESISTANCE	
KEWAUNEE	06/06/00	305	3	3052000009	3/063	OPEKATE	IVIAN	TEMPERATURE DETECTOR. THE REACTOR WAS MANUALLY TRIPPED FOLLOWING THE LOSS OF	
								BOTH RECIRC PUMPS. THE RECIRC PUMPS TRIPPED DUE TO LOSS OF	
								THEIR MG SETS, FOLLOWING THE LOSS OF THE 114A LOAD CENTER,	
LIMERICK 1	06/23/10	352	1	3522010001	46042	OPERATE		CAUSED BY THE TRIP OF ITS SUPPLY BREAKER DUE TO A FAILED 13KV CABLE.	
LIVILITIEN I	00/23/10	332	 	3322010001	70042	OI LIMIL	IVICIN	THE REACTOR TRIPPED FOLLOWING A TURBINE TRIP. THE CAUSE OF	
								THE TURBINE TRIP WAS A DEFECTIVE RELAY IN THE MAIN	
LIMERICK 1	03/22/08	352	1	3522008002	44088	OPERATE	AUTO	GENERATOR PROTECTION LOGIC.	

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			/	///	Repo	rion sion		AM Scram Cause Description	
PLANT WAN	AE EVENT	DATE		On See	Event	A Motification	MODE	M Cause 1	<i>(</i> 5)
PLAN	EVEN	00	CHET	GION Licensee	Eve	INIT	ر کری	AM Scram Ca	Motes
							_	A TURBINE TRIP/RX SCRAM OCCURRED ON AN INVALID MAIN	
								GENERATOR LOCKOUT RELAY ACTUATION. THE CAUSE WAS A CORRODED DISCONNECT POSITION SWITCH AND CONCURRENT	
								GROUND ON THE BALANCE OF PLANT DC POWER DISTRIBUTION	
LIMERICK 1	07/18/05	352	1	3522005003	41848	OPERATE	AUTO	SYSTEM.	
								A RX SCRAM OCCURRED ON LOW RX VESSEL WATER LEVEL	
								FOLLOWING A LOSS OF FEEDWATER. THE FEEDPUMPS TRIPPED ON	
								LOW SUCTION PRESSURE FOLLOWING THE CLOSURE OF THE CONDENSATE DEEP BED DEMINERALIZER INLET HEADER BLOCK	
LIMERICK 1	04/23/03	352	1	3522003003	39784	OPERATE	AUTO	VALVE FROM INADVERTENT PERSONNEL CONTACT.	
								A RX SCRAM/TURBINE TRIP OCCURRED ON TURBINE THRUST	
								BEARING WEAR DETECTOR ACTUATION DURING TURBINE COMBINED INTERMEDIATE VALVE TESTING. THE CAUSE WAS MOST LIKELY	
								LOOSENESS IN THE STRUCTURE THAT HOLDS THE THRUST BEARING	
LIMERICK 1	05/19/02	352	1	3522002003	38927	OPERATE			
								A TURBINE TRIP/RX SCRAM OCCURRED FOLLOWING A GENERATOR LOCKOUT. THE CAUSE WAS AN INADEQUATE ELECTRICAL	
								CONNECTION ON THE MAIN TRANSFORMER, RESULTING FROM AN	
LIMERICK 1	05/01/00	352	1	3522000002	36947	OPERATE	AUTO	INADEQUATE WORK PACKAGE.	
								THE REACTOR WAS MANUALLY TRIPPED AFTER THE RECIRCULATION	
								PUMPS TRIPPED. THE RECIRCULATION PUMPS TRIPPED DUE TO A	
LIMERICK 2	02/25/11	353	1		46641	OPERATE	MAN	MAIN GENERATOR STATOR WATER COOLANT RUNBACK. THE CAUSE OF THE RUNBACK IS UNDER INVESTIGATION.	
								AN AUTOMATIC REACTOR SCRAM OCCURRED DUE TO THE TRIP OF THE MAIN TURBINE. THE TURBINE TRIP WAS CAUSED BY A PHASE TO	
								GROUND FAULT ON THE MAIN TRANSFORMER LOW VOLTAGE	
LIMERICK 2	02/01/08	353	1	3532008002	43949	OPERATE	AUTO	BUSHING CONNECTION TO THE ISO-PHASE BUS.	
								THE REACTOR TRIPPED ON LOW REACTOR WATER LEVEL, THIS EVENT	
								WAS CAUSED BY FAILURE OF A REDUNDANT REACTIVITY CONTROL	
LIMERICK 2	04/24/07	353	1	3532007003	 43315	OPERATE		SYSTEM CARD COINCIDENT WITH SURVEILLANCE TESTING OF THE FEEDWATER CONTROL SYSTEM.	
IIIIIIIII Z	3 1/2 7/07	555		3332007003	.5515	J. LIVIIL	,	A RX SCRAM OCCURRED ON HIGH APRM FLUX WHEN THE TURBINE	
								CONTROL VALVES CLOSED FOLLOWING A FAILURE IN THE EHC	
LIMERICK 2	10/12/05	353	1	3532005004	42054	OPERATE	AUTO	SYSTEM. THE MOST LIKELY CAUSE WAS A TRANSIENT MALFUNCTION OF A CIRCUIT CARD.	
							+	A RX SCRAM OCCURRED FOLLOWING A GENERATOR LOCKOUT AND	
								ELECTRICAL YARD MANIPULATION. THE CAUSE WAS A FAILED 500 KV CIRCUIT BREAKER AND CONCURRENT FAILURE OF A CURRENT	
								TRANSFORMER ASSOCIATED WITH A DIFFERENT 500 KV CIRCUIT	
LIMERICK 2	06/22/04	353	1	3532004001	40832	OPERATE	AUTO	BREAKER.	
								A RX SCRAM OCCURRED ON A MANUAL TURBINE TRIP DUE TO	
								ELEVATED MAIN TURBINE VIBRATION LEVELS. THE CAUSE WAS	
LIMERICK 2	03/03/03	353	1	3532003001	39632	OPERATE	ALITO	INADEQUATE OIL DEFLECTOR GAPS ON THE MAIN TURBINE AND INADEQUATE LOW PRESSURE TURBINE GLAND SEAL CLEARANCES.	
LAVIENCE Z	03/03/03	223		3332003001	33032	OI LIVATE	7.010	THE RX WAS MANUALLY SCRAMMED ON DECREASING CONDENSER	+
								VACUUM WHEN THE CONDENSER AIR REMOVAL SYSTEM FAILED DUE	
								TO TEMPERATURE IN THE STEAM JET AIR EJECTOR CONDENSER EXCEEDING THE DESIGN LIMIT. THE CAUSE WAS INADEQUATE	
LIMERICK 2	07/23/02	353	1	3532002001	39085	OPERATE	MAN	OPERATING PROCEDURES.	

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RLAW WAS	ne event	DATE	CKET RE	GOM licensee	Event Ret	nt Matification	MODE SCO	Scram Cause Description	MOTES
				,				THE RX WAS MANUALLY TRIPPED WHEN A SAFETY RELIEF VALVE OPENED WHILE PERFORMING A PLANNED PLANT SHUTDOWN. THE CAUSE WAS EROSION AND OXIDATION OF THE STELLITE DISC	
LIMERICK 2	02/23/01	353	1	3532001001	37778	OPERATE	MAN	MATERIAL IN THE FIRST STAGE PILOT VALVE.	
LIMERICK 2	06/26/01	353	1	3532001002	38097	OPERATE		A TURBINE TRIP/RX SCRAM OCCURRED ON A GENERATOR LOCKOUT. THE CAUSE WAS A FAILED WIRE LUG IN THE ALTERREX PHASE DIFFERENTIAL CURRENT PROTECTIVE RELAY SYSTEM.	
								A RX SCRAM OCCURRED FOLLOWING A MAIN GENERATOR LOCKOUT/TURBINE TRIP FROM A GROUND ON A PLANT SERVICES TRANSFORMER ALARM CIRCUIT. THE GROUND WAS CAUSED BY AN EXPOSED SPARE WIRE ON THE TRANSFORMER LOW LIQUID LEVEL	
LIMERICK 2	01/08/00	353	1	3532000001	36573	OPERATE	AUTO	SWITCH.	
								THE REACTOR TRIPPED ON THROTTLE CONTROL VALVE FAST CLOSURE FOLLOWING A MAIN POWER TRANSFORMER TRIP AND SUBSEQUENT LOAD REJECTION. THE ROOT CAUSE WAS DETERMINED TO BE	
LASALLE 1	02/01/11	373	3	3732011001	46582	OPERATE	AUTO	EXTERNAL BUSHING FLASHOVER DUE TO MOIST SNOW AND ICE BUILDUP ALONG THE BUSHING SKIRT.	
								THE REACTOR TRIPPED DUE TO A FAULT ON THE MAIN POWER TRANSFORMER. THE FAULT WAS CAUSED BY A FAILED SURGE ARRESTOR. THE SURGE ARRESTOR FAILED DUE TO A	THE REACTOR AUTOMATICALLY TRIPPED DUE TO A MAIN
LASALLE 1	05/21/09	373	3	3732009001	45087	OPERATE	AUTO		POWER TRANSFORMER FAULT.
								A RX SCRAM OCCURRED ON LOW RCS PRESSURE AFTER A TURBINE CONTROL SYSTEM MALFUNCTION RESULTED IN OPENING ALL MAIN TURBINE BYPASS VALVES DURING A NORMAL SHUTDOWN. THE CAUSE WAS A FAILED POWER SUPPLY IN THE MAIN TURBINE EHC	
LASALLE 1	02/20/06	373	3	3732006001	42348	OPERATE	AUTO		
LASALLE 1	11/27/03	373	3	3732003005	40357	OPERATE	MAN	THE RX WAS MANUALLY SCRAMMED ON DECREASING RX WATER LEVEL WHILE PERFORMING A POWER REDUCTION AND TRANSFER FROM THE TURBINE TO MOTOR DRIVEN RX FEED PUMP. THE CAUSE WAS A STUCK OPEN TURBINE DRIVEN FEED PUMP DISCHARGE CHECK VALVE.	
LASALLE 1	01/31/01			3732001001				A TURBINE TRIP/RX SCRAM RESULTED FROM A PHASE-TO-GROUND FAULT BETWEEN THE MAIN POWER TRANSFORMER AND THE SWITCHYARD. THE CAUSE WAS A BUILDUP OF BIRD EXCREMENT ON A TRANSMISSION LINE SUPPORT INSULATOR.	
LASALLE 2	08/15/09	374	3	3742009001	45265	OPERATE		THE REACTOR SCRAMMED FOLLOWING A TURBINE TRIP. THE TURBINE TRIPPED DURING WEEKLY TURBINE TRIP TESTING. THE CAUSE OF THE TURBINE TRIP WAS FAILURE OF A CARD IN THE ELECTRO-DIGITAL CONTROL SYSTEM.	
LASALLE 2	01/10/03	374	3	3742003001	39500	OPERATE	MAN	THE RX WAS MANUALLY SCRAMMED ON LOWERING VESSEL WATER LEVEL FOLLOWING THE LOSS OF A CONDENSATE PUMP AND THE "2A & 2C" HEATER DRAIN PUMPS WHICH RESULTED IN A LOSS OF BOTH TURBINE DRIVEN FEED PUMPS. THE CONDENSATE PUMP "B" PHASE MOTOR LUG FAILED.	
LASALLE 2	07/07/03	374	3	3742003004	39982	OPERATE		A RX SCRAM/TURBINE TRIP OCCURRED ON A MAIN GENERATOR LOCKOUT. THE CAUSE WAS A FAULT ON ONE PHASE OF THE MAIN POWER DISCONNECT IN THE SWITCHYARD.	
LASALLE 2	04/06/01	374	3	3742001001	37895	OPERATE		A TURBINE/RX TRIP OCCURRED ON HIGH RX WATER LEVEL. THE CAUSE WAS A BLOWN FUSE IN THE FEEDWATER CONTROL SYSTEM WHICH CAUSED THE RX RECIRCULATION PUMPS TO DOWN SHIFT.	

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								A TURBINE TRIP/RX SCRAM RESULTED FROM HIGH TURBINE VIBRATION DURING TURBINE CONTROL VALVE (TCV) TESTING. THE		
								CAUSE WAS A HIGH RESISTANCE CONNECTION IN THE TCV #3		
LASALLE 2	05/27/01	374	3	3742001002	38034	OPERATE	AUTO	POSITION INDICATION CIRCUITRY.		
								THE RX WAS MANUALLY SCRAMMED FOLLOWING THE LOSS OF		
								POWER TO THE FEEDWATER CONTROL SYSTEM. THE CAUSE WAS		
								FAILED FUSES IN THE POTENTIAL TRANSFORMER PORTION OF THE		
LASALLE 2	09/03/01	374	3	3742001003	38262	OPERATE	MAN	DIVISION "1" UNDER VOLTAGE PROTECTIVE CIRCUIT.		
								THE RX WAS MANUALLY SCRAMMED FOLLOWING THE LOSS OF TWO		
								LOW PRESSURE FEEDWATER HEATER STRINGS. THE CAUSE WAS		
								INADEQUATE PROCEDURES THAT ALLOWED THE HEATER DRAINS TO		
LASALLE 2	09/07/01	374	3	3742001004	38269	OPERATE	MAN	BE LINED UP INCORRECTLY FOR EXISTING PLANT CONDITIONS.		
								A RX SCRAM OCCURRED ON LOW RX WATER LEVEL WHEN A TURBINE		
								DRIVEN RX FEED PUMP WAS LOST. THE CAUSE WAS THE INTRUSION		
								OF WEAR PRODUCTS INTO THE HIGH PRESSURE CONTROL OIL PRESSURE REGULATING RELIEF VALVE WHICH CAUSED THE FEED		
LASALLE 2	06/22/00	374	3	3742000003	37102	OPERATE	ΔΙΙΤΟ	PUMP CONTROL VALVE TO CLOSE.		
L/IJ/ILLE Z	00/22/00	374	3	37 42000003	37102	OT LIVITE	7.010	TOWN CONTINUE VALVE TO CLOSE.		
								A TURBINE TRIP/RX SCRAM OCCURRED ON HIGH RX VESSEL WATER		
								LEVEL WHILE PLACING THE TURBINE DRIVEN RX FEEDWATER PUMP		
								IN SERVICE. THE CAUSE WAS INADEQUATE EVOLUTION PREPARATION		
	/ /	a=.		.=				COMBINED WITH SLUGGISH RESPONSE FROM THE FEEDWATER AND		
LASALLE 2	12/01/00	374	3	3742000006	37562	OPERATE	AUTO	RX LEVEL CONTROL SYSTEM.		
								THE REACTOR WAS MANUALLY TRIPPED WHILE SHUTTING DOWN, WHEN THE SECOND MAIN FEEDWATER PUMP TRIPPED FOLLOWING		
MCGUIRE 1	01/20/11	369	2	3692011002	46559	OPERATE	MAN	THE FIRST MFW PUMP BEING SECURED.		
	01/20/11			0001011001	10000	0. 1		WITH POWER REDUCED TO 44% DUE TO A DROPPED CONTROL ROD,		
								THE REACTOR WAS MANUALLY TRIPPED ON INDICATION OF A		
								SECOND DROPPED CONTROL ROD. THE DROPPED RODS WERE		
	l							CAUSED BY A DEGRADED SOLDER JOINT IN A POWER CABINENT		
MCGUIRE 1	06/12/10	369	2	3692010003	46003	OPERATE	MAN	REGULATING CARD.		
								THE REACTOR TRIPPED FROM 100% POWER DUE TO THE TRIP OF THE 1B REACTOR COOLANT PUMP. THE OVER CURRENT RELAYS WERE		
								PICKED UP ON THE SAFETY BKR AND THE 6900V SUPPLY BREAKER.		
								THE TRIP WAS ULTIMATELY CAUSED BY A FAILED PUMP MOTOR		
MCGUIRE 1	06/26/08	369	2	3692008002	44318	OPERATE	AUTO	SURGE SUPPRESSING CAPACITOR.		
								A TURBINE/RX TRIP OCCURRED ON HIGH SG WATER LEVEL WHICH		
								RESULTED FROM A FAILED FEED FLOW CHANNEL. THE CAUSE WAS		
MACCHURE 4	42/47/05	260	2	2602005006	42244	ODEDATE	ALITO	INTERMITTENT DEGRADED VOLTAGE TO THE SG FLOW		
MCGUIRE 1	12/17/05	369	2	3092005006	42211	OPEKATE	AUTO	TRANSMITTER. THE RX WAS MANUALLY TRIPPED ON DECREASING SG WATER LEVEL		—
								AFTER A FEEDWATER REGULATING VALVE AND ITS BYPASS VALVE		
								FAILED CLOSED. THE CAUSE WAS A LOSS OF NORMAL AND BACKUP		
								ELECTRICAL POWER TO THE CONTROL CIRCUITRY FOR THE VALVES		
MCGUIRE 1	03/04/02	369	2	3692002001	38748	OPERATE	MAN	WHEN A CAPACITOR FAILED.		
								A RX TRIP OCCURRED ON LOW SG LEVEL DURING A FEEDWATER		
								TRANSIENT. THE TRANSIENT RESULTED FROM A LOSS OF VITAL 120		
MCGLUPE 1	05/25/00	360	3	2602000004	27022	ODEDATE	ALITO	VOLT AC POWER DUE TO THE MECHANICAL-RELATED FAILURE OF A		
MCGUIRE 1	05/25/00	369		3092000004	3/032	OPERATE	AUTU	VITAL INVERTER OUTPUT SWITCH.	1	

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								THE RX WAS MANUALLY TRIPPED IN RESPONSE TO A FIRE IN A HYDROGEN DRYER IN THE HYDROGEN SUPPLY TO THE TURBINE	
								GENERATOR WHEN A PIPE PLUG FAILED AND BLEW OUT. THE CAUSE WAS INADEQUATE MAINTENANCE AND WORK PRACTICES THAT	
MCGUIRE 2	08/22/02	370	2	3702002002	39145	OPERATE	MAN	RESULTED IN THREAD DAMAGE. A RX TRIP OCCURRED ON OTDT FOLLOWING THE CLOSURE OF ALL	
								MSIVS. DURING A CALIBRATION PROCEDURE, A STEAMLINE	
								PRESSURE CHANNEL WAS PLACED IN TEST, BUT THE WRONG PRESSURE TRANSMITTER WAS ISOLATED AND VENTED. THE CAUSE	
MCGUIRE 2	07/16/01	370	2	3702001001	38143	OPERATE		WAS PERSONNEL ERROR. THE RX WAS MANUALLY TRIPPED FOLLOWING AN INVALID TURBINE	
								RUNBACK WHICH WOULD NOT CLEAR. THE OVER-POWER DELTA- TEMP AND OVER-TEMP DELTA-TEMP LOGIC ACTUATED WHEN A	
MCCLUPE 2	11/15/00	270	2	2702000002	27524	ODEDATE		POWER SUPPLY CIRCUIT BREAKER OPENED FOR UNKNOWN	
MCGUIRE 2	11/15/00	370		3702000002	3/524	OPERATE		WITH THE 1R TRANSFORMER OUT FOR MAINTENANCE, THE 2R	
MONTICELLO	09/11/08	263	3	2632008005	44484	OPERATE		TRANSFORMER EXPERIENCED A LOCKOUT RESULTING IN LOSS OF OFFSITE POWER, WHICH RESULTED IN A REACTOR TRIP.	
								A REACTOR SCRAM OCCURRED AT 87% POWER WHILE PERFORMING	
MONTICELLO	01/10/07	263	3	2632007001	43088	OPERATE		TURBINE VALVE TESTING. THE CAUSE WAS FAILURE OF THE SUPPORTS FOR THE TURBINE CONTROL VALVE ENCLOSURE.	
								A RX SCRAM OCCURRED ON A TURBINE CONTROL VALVE FAST	
								CLOSURE (LOAD REJECT) SIGNAL RESULTING FROM FAILURE OF THE	CODED RPS AND EQUIP SYSTEM AS TURBINE STEAM
								MAIN TURBINE PRESSURE CONTROL SYSTEM. THE CAUSE WAS FAILURE OF THE MECHANICAL PRESSURE REGULATOR CAUSED BY A	BYPASS CONTROL SYSTEM. I BELIEVE THIS IS THE TURBINE PRESSURE CONTROL SYSTEM. PLEASE CORRECT ME IF
MONTICELLO	01/21/02	263	3	2632002001	38642	OPERATE	AUTO	DAMAGED RATE FEEDBACK BELLOWS.	WRONG. NO CHANGES PER REV 1.
MONTICELLO	10/23/01	263	3	2632001011	38420	OPERATE		A RX SCRAM OCCURRED ON AN MSIV ISOLATION WHEN MSIV ISOLATION INSTRUMENTATION WAS INADVERTENTLY BUMPED.	
								THE REACTOR WAS MANUALLY TRIPPED FOLLOWING THE TRIP OF A	
								CIRC WATER PUMP. THE CIRC WATER PUMP TRIPPED ON HIGH DELTA PRESSURE ACROSS ITS SCREENS. THIS OCCURRED WHILE ANOTHER	
MILLSTONE 2	02/26/10	336	1	3362010001	45729	OPERATE		CIRC WATER PUMP WAS UNAVAILABLE DUE TO MAINTENANCE.	
								FOLLOWING OSCILLATIONS IN A FEED REG VALVE, THE REACTOR WAS MANUALLY TRIPPED WHEN STEAM GENERATOR LEVEL BEGAN RISING	
								AND COULD NOT BE CONTROLLED. THE FRV FAILURE WAS CAUSED BY VIBRATION INDUCED WEAR OF THE VALVE POSITIONER BEAM	
MILLSTONE 2	05/22/10	336	1	3362010002	45945	OPERATE	MAN	SCREW.	
								WITH ONE CIRC WATER PUMP OUT FOR MAINTENANCE, THE OTHER PUMP TRIPPED RESULTING IN LOW CONDENSER VACUUM. THE MAIN	
								TURBINE AND REACTOR TRIPPED. THE CIRC WATER PUMP TRIP WAS CAUSED BY PERSONNEL ERROR AND THE PROCEDURE USED FOR	
MILLSTONE 2	11/28/10	336	1	3362010003	46441	OPERATE		BACKWASHING THE WATERBOX	
								THE REACTOR TRIPPED ON HIGH PZR PRESSURE FOLLOWING CLOSURE OF THE MAIN TURBINE STOP VALVES. THE CAUSE OF THE	
								TURBINE STOP VALVES CLOSING IS THOUGHT TO BE A BRIEF LOSS OF THE 115-KV LINE RESULTING IN A FLUCTUATION OF 24V DC POWER	
MILLSTONE 2	07/03/09	336	1	3362009001	45183	OPERATE	AUTO	TO THE EHC SYSTEM.	

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								AN AUTOMATIC REACTOR SCRAM OCCURRED WHEN LIGHTNING	
NAULICTONIC 2	05 /22 /00	226	1	2262000002	44224	ODEDATE		STRIKES CAUSED A GRID DISTURBANCE WHICH CAUSED THE TURBINE	
MILLSTONE 2	05/22/08	336	1	3362008003	44234	OPERATE	AUTU	TO TRIP AND ACTUATION OF THE REACTOR PROTECTION SYSTEM. LOSS OF OFFSITE POWER DUE TO FAILURE OF THE RESERVE STATION	LIGHTNING STRIKES.
MILLSTONE 2	05/24/08	336	1	3362008004	44238	STARTUP		SERVICE TRANSFORMER RESULTED IN A REACTOR SCRAM FROM <1%	
WILLSTONE 2	03/24/00	330		330200000+	77230	31711(101		THE REACTOR WAS MANUALLY TRIPPED FOLLOWING THE LOSS OF	
								BOTH FEEDWATER PUMPS. THE CAUSE OF THE LOSS OF THE FEEDWATER PUMPS WAS INEFFECTIVE CONFIGURATION CONTROL	
								OF PARTS ALLOWED PARTS TO BE INSTALLED THAT CAUSED THE LC	
MILLSTONE 2	06/28/08	336	1	3362008005	44326	OPERATE	MAN	SYSTEM TO OPERATE INCORRECTLY. THE RX WAS MANUALLY TRIPPED FOLLOWING A LOSS OF MAIN	
NAULICTONIC 2	02/22/06	226	1	2262006002	42267	ODEDATE		FEEDWATER. THE CAUSE WAS AN INSTRUMENT AIR LINE FAILURE	
MILLSTONE 2	02/23/06	336	1	3362006002	42307	OPERATE	IVIAIN	DURING A MAINTENANCE ACTIVITY.	
								THE RX WAS MANUALLY TRIPPED AFTER A FEEDPUMP TRIPPED UNEXPECTEDLY AND WOULD NOT RESET. THE CAUSE WAS	
MILLSTONE 2	03/06/04	336	1	3362004001	40570	OPERATE	MAN	AGITATION OF A RELAY IN THE FEEDWATER PUMP CONTROL SYSTEM.	
								A RX TRIP OCCURRED ON LOW SG WATER LEVEL FOLLOWING THE	
								SPURIOUS LOSS OF A MAIN FEED PUMP DURING A OVERSPEED	
MILLSTONE 2	03/15/04	336	1	3362004002	40591	OPERATE	AUTO	LOCKOUT TEST. THE CAUSE IS BELIEVED TO BE THE USE OF A PROBLEMATIC LOCKOUT CONTROL SWITCH FOR THE TESTING.	
								A RX TRIP OCCURRED DURING RPS TESTING DUE TO A FAULT IN THE	
								TEST CIRCUITRY. THE CAUSE WAS POOR WORKMANSHIP OF THE	
MILLSTONE 2	03/07/03	336	1	3362003002	39644	OPERATE		ORIGINAL RPS MATRIX TEST MODULE WHICH CAUSED STRAIN FAILURE OF THE WIRING AT THE SWITCH TERMINAL JOINT.	
								THE RX WAS MANUALLY TRIPPED ON HIGH TURBINE VIBRATION WHILE ATTEMPTING TO ROLL THE TURBINE FOLLOWING	
								INSTALLATION OF A NEW TURBINE ROTOR. THE CONSTRUCTION OF	
MILLSTONE 2	11/27/03	336	1	3362003006	40358	OPERATE	MAN	THE NEW MONOBLOCK ROTOR MADE IT MORE SENSITIVE TO RUBBING.	
	11/2//03	- 555		000200000		0		THE RX WAS MANUALLY TRIPPED ON HIGH MAIN TURBINE	
								VIBRATION. THE VIBRATIONS WERE ANTICIPATED DUE TO A NEWLY INSTALLED TURBINE ROTOR. THE CONSTRUCTION OF THE NEW	
MILLSTONE 2	11/28/03	336	1	3362003006	40361	OPERATE	MAN	ROTOR MADE IT MORE SENSITIVE TO RUBBING.	
								A TURBINE/RX TRIP OCCURRED WHEN A TEMPERATURE SWITCH IN	
								THE STATOR WATER COOLING SYSTEM TRIPPED ON A HIGH VALUE. THE SWITCH WAS FOUND WITH A TRIP SETPOINT LOWER THAN THE	
								ACCEPTANCE CRITERIA. THE CAUSE WAS EITHER EQUIPMENT FAILURE	
MILLSTONE 2	04/19/02	336	1	3362002002	38864	OPERATE		OR CALIBRATION ERROR. A RX TRIP OCCURRED ON LOW SG WATER LEVEL RESULTING FROM	
								FEEDWATER REVERSE FLOW THROUGH THE "B" SG FEEDPUMP	
MILLSTONE 2	08/07/02	336	1	3362002005	39115	OPERATE		DISCHARGE CHECK VALVE. THE VALVE FAILED DUE TO AN INADEQUATE ANTI-ROTATION WELD.	
	_							A TURBINE/RX TRIP OCCURRED ON DEGRADED CONDENSER VACUUM FOLLOWING THE LOSS OF BOTH CIRCULATING WATER PUMPS. THE	
								CAUSE WAS INADEQUATE PROCEDURES WHICH DID NOT INCLUDE	
MILLSTONE 2	04/29/01	336	1	3362001003	37952	OPERATE	AUTO	THE CORRECT INFORMATION OR REQUIRE THE CORRECT VERIFICATIONS FOR LIFTING LEADS.	
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,				, ,				THE RX WAS MANUALLY TRIPPED AFTER THE ONLY OPERATING "A" CONDENSOR CIRC PUMP TRIPPED. THE OTHER CIRC PUMP AND BOTH	
								TRAVELING SCREENS WERE TAGGED OUT FOR DIVING OPERATIONS.	
MILLSTONE 2	05/07/01	336	1	3362001004	37969	OPERATE	MAN	TRAVELING SCREEN D/P EVENTUALLY REACHED THE CIRC PUMP TRIP SETPOINT.	
								THE RX WAS MANUALLY TRIPPED ON RAPIDLY DECREASING SG WATER LEVEL. A TRANSIENT IN THE FEEDWATER HEATER DRAIN	
MILLSTONE 2	01/27/00	336	1	3362000001	36633	OPERATE	MAN	SYSTEM ULTIMATLEY RESULTED IN A TOTAL LOSS OF FEEDWATER	
WILLSTONE Z	01/27/00	330		330200001	30033	OT ENVITE		THE RX WAS MANUALLY TRIPPED AFTER TWO CONTROL RODS	
								DROPPED INTO THE CORE. THE CAUSE OF THE FIRST DROP WAS A CIRCUIT GROUND BETWEEN INTERPOSING CABLING AND THE COIL	
MILLSTONE 2	02/11/00	336	1	3362000003	36682	OPERATE	MAN	STACK. THE SECOND DROP WAS CAUSED BY FAILED RELAYS IN THE UPPER GRIPPER CIRCUIT.	
								A TURBINE TRIP/RX TRIP OCCURRED DURING SURVEILLANCE TESTING	
NAULICTONIC 2	06/04/00	226		2262000010	27052	ODEDATE		OF THE MAIN TURBINE. THE CAUSE WAS A COMPONENT FAILURE	
MILLSTONE 2	06/04/00	336		3362000010	37053	OPERATE		RELATED TO THE POWER LOAD UNBALANCE TEST PUSH BUTTON. A FEEDWATER TRANSIENT RESULTED IN A LOW STEAM GENERATOR	
								WATER LEVEL, WHICH CAUSED THE REACTOR TO TRIP. THE FEEDWATER TRANSIENT WAS CAUSED BY THE FAILURE OF THE FEED	
MILLSTONE 3	05/17/10	423	1	4232010002	45931	OPERATE		REG BYPASS VALVE TO CONTROL LEVEL IN AUTO OR MANUAL DUE TO INADEQUATE DESIGN.	
								THE REACTOR TRIPPED FOLLOWING A MAIN TURBINE TRIP CAUSED BY A GENERATOR ELECTRICAL FAULT. THE ELECTRICAL FAULT WAS	
								MOST PROBABLY DUE TO A GROUND FAULT IN THE "C" PHASE MAIN	
MILLSTONE 3	12/19/09	423	1	4232009002	45583	OPERATE	AUTO	GENERATOR ISOPHASE DUCTING. WHILE REDUCING POWER FOR PLANNED SHUTDOWN, A SG LEVEL	
								INCREASED CAUSING A TURBINE TRIP AND FEEDWATER ISOLATION WHICH CAUSED THE REACTOR TO TRIP ON LOW SG LEVEL. THE CAUSE	
MILLSTONE 3	10/11/08	423	1	4232008003	44564	OPFRATE		OF THE SG OSCILLATIONS WAS PERSONNEL ERROR IN REMOVING FW COMPONENTS FROM SERVICE.	
WILLD FORKE 5	10/11/00	3		123200000	1.301	0.2.02		A RX TRIP OCCURRED ON AN INADVERTANT SSPS STEAM LINE	
								PRESSURE LOW SIGNAL THAT ALSO CLOSED THE MSIVS AND STARTED	
MILLSTONE 3	04/17/05	423	1	4232005002	41607	OPERATE	AUTO	ONE TRAIN OF ECCS. THE CAUSE WAS A FAILED SSPS LOGIC CARD. THE RX WAS MANUALLY TRIPPED ON THE LOSS OF TWO OF SIX CIRC	
								WATER PUMPS ON HIGH DIFFERENTIAL PRESSURE ACROSS THE TRAVELING SCREENS. THE CAUSE WAS HIGH WIND AND WAVE	
MILLSTONE 3	09/29/05	423	1	4232005003	42024	OPERATE	MAN	ACTION THAT RESULTED IN SEA WEED AND RELATED DEBRIS BUILDUP AT THE INTAKE STRUCTURE.	
THE STORE S	03/23/03	723	1	.232003003	72024	OI LIMIL	_	A RX TRIP OCCURRED ON LOW SG WATER LEVEL RESULTING FROM A	
								TURBINE TRIP TRANSIENT DURING A POWER REDUCTION FOR CONTAINMENT ENTRY. THE MANUAL TURBINE TRIP WAS DUE TO	
MILLSTONE 3	12/01/05	423	1	4232005005	42180	OPERATE	-	HIGH VIBRATION. A TURBINE/RX TRIP RESULTED FROM A MAIN GENERATOR BACKUP	
								RELAY PROTECTION TRIP DUE TO A GENERATOR STATOR GROUND FAULT ON PHASE "A". THE CAUSE WAS A GENERATOR STATOR	
MILLSTONE 3	12/23/02	423	1	4232003001	39467	OPERATE	ΔΙΙΤΟ	COOLING WATER PIN HOLE LEAK IN THE BRAZE MATERIAL OF A	
	,	123			33 107	J. 2.W.II		THE REACTOR WAS MANUALLY TRIPPED DURING PHYSICS TESTING	
NORTH ANNA 1	10/22/10	338	2	3382010004	46352	STARTUP	MAN	DUE TO A PROBLEM WITH THE CONTROL ROD IN-HOLD-OUT SWITCH.	

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			,		Repo	nt Multication		Scram Cause Description	
PLANT MAN	event.	DATE		A Section 1	Event	A Notification	MODE SCR	Cause I	
PLAN	EVEN	\Q	SCHET RE	310M Licensee	Eve	nt JANT	`/৻ৢ৻	Scram Co	NOTES
								FAILURE OF A PROCESS RACK CARD CAUSED THE "B" MAIN FEED	
								REGULATION VALVE TO FAIL CLOSED. THIS RESULTED IN A STEAM FLOW - FEED FLOW MISMATCH REACTOR TRIP COINCEDENT WITH	
NORTH ANNA 1	01/03/07	338	2	3382007001	43072	OPERATE	AUTO	STEAM GENERATOR LOW LEVEL.	
								THE RX WAS MANUALLY TRIPPED FOLLOWING A MAIN TURBINE LUBE	
								OIL LEAK WHICH CAUSED THE TURBINE CONTROL VALVES TO DRIFT SHUT. THE LEAK WAS THROUGH THE DIAPHRAGM ON THE EHC	
								INTERFACE VALVE RESULTING IN A LOSS OF EHC FLUID TO THE	
NORTH ANNA 1	04/19/03	338	2	3382003003	39773	OPERATE	MAN	TURBINE CONTROL SYSTEM.	
								A RX/TURBINE TRIP OCCURRED ON A MAIN TRANSFORMER LOCKOUT. AN UNUSED ELECTRICAL LEAD DISENGAGED FROM THE NO-	
								LOAD TAP CHANGER AND CAME IN CONTACT WITH THE	
		222						TRANSFORMER CASING. THE CAUSE WAS IMPROPER ASSEMBLY	
NORTH ANNA 1	06/11/03	338	2	3382003004	39923	OPERATE	AUTO	DURING MANUFACTURING.	
								A TURBINE/RX TRIP OCCURRED ON A GENERATOR LOCKOUT	
	0= 10= 100	220		22222222	26070	0050475		RESULTING FROM A GENERATOR OUTPUT BREAKER MALFUNCTION.	
NORTH ANNA 1	05/07/00	338	2	3382000004	36978	OPERATE	AUTO	THE CAUSE WAS A GROUND ON ONE PHASE OF THE BREAKER. WHILE TESTING THE MAIN GENERATOR AUTOMATIC VOLTAGE	
								REGULATOR, A GENERATOR LOCKOUT AND TURBINE TRIP	
NORTH ANNA 2	04/27/10	339	2	3392010001	45877	OPERATE	AUTO	OCCURRED. THIS RESULTED IN A REACTOR TRIP.	
								LOSS OF THE B STATION SERVICE BUS RESULTED IN A REACTOR TRIP DUE TO LOSS OF THE B REACTOR COOLANT PUMP. THE CAUSE OF THE	
								LOSS OF THE SERVICE BUS WAS A LIGHTNING STRIKE IN THE	
NORTH ANNA 2	05/28/10	339	2	3392010002	45960	OPERATE	AUTO	SWITCHYARD.	
								DURING A LIGHTNING STORM THE REACTOR TRIPPED ON TWO CHANNELS OF "OVER TEMPERATURE DELTA T". THE CAUSE WAS A	
									THE REACTOR TRIPPED ON TWO CHANNELS OF "OVER
NORTH ANNA 2	06/16/10	339	2	3392010004	46020	OPERATE	AUTO	THE PROTECTED AREA.	TEMPERATURE DELTA T"
								FOLLOWING LOSS OF THE C RSST, THE UNIT 2 G BUS FAILED TO	
								TRANSFER TO THE B RSST. THIS RESULTED IN THE LOSS OF UNIT 2	
NODTH ANNA 2	42/00/00	220		220200004	45556	0050475	41170	CIRC WATER AND A SUBSEQUENT TURBINE TRIP ON LOW VACUUM.	
NORTH ANNA 2	12/09/09	339	2	3382009004	45556	OPERATE	AUTO	THE REACTOR TRIPPED FOLLOWING THE TURBINE TRIP. A SPURIOUS "B" TRAIN SI SIGNAL RESULTED IN A TURBINE TRIP AND	
NORTH ANNA 2	06/29/07	339	2	3392007003	43462	OPERATE	AUTO	SUBSEQUENT REACTOR TRIP.	
								THE REACTOR TRIPPED DUE TO A TRIP OF THE B RCP. THE REACTOR	
NORTH ANNA 2	12/25/07	339	2	3392007004	43866	OPERATE	AUTO	COOLANT PUMP TRIPPED DUE TO A PHASE B TO GROUND FAULT ON THE RCP MOTOR.	
								FAILURE OF AN ISOLATION CARD CAUSED THE B MAIN FEED REG	
								VALVE TO CLOSE RESULTING IN AN AUTOMATIC REACTOR TRIP ON	
NORTH ANNA 2	11/16/06	339	2	3392006001	42996	OPERATE	AUTO	LOW STEAM GENERATOR LEVEL COINCIDENT WITH STEAM FLOW/FEED FLOW MISMATCH.	
								·	
								A RX TRIP OCCURRED ON OVER TEMPERATURE DELTA TEMPERATURE TRIP SIGNAL THAT WAS CAUSED BY A LIGHTNING STRIKE. AN OVER	
NORTH ANNA 2	08/05/05	339	2	3392005001	41898	OPERATE	AUTO	TEMPERATURE DELTA TEMPERATURE CONDITION DID NOT EXIST.	
								A DV TRID O COURDED TO THE TOTAL THE TOTAL TO THE TOTAL THE TOTAL TO T	
								A RX TRIP OCCURRED DURING TESTING DUE TO AN INCORRECT CONFIGURATION OF A CELL SWITCH ON A RX BYPASS BREAKER. THE	
								CAUSE WAS INADEQUATE WORK PRACTICES DURING A	
NORTH ANNA 2	06/10/04	339	2	3392004004	40804	OPERATE	AUTO	REPLACEMENT PROCESS AND INADEQUATE TESTING PROCEDURES.	

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PLANT HAN	ik Event	700	CHET RE	licensee	Eve	nt Notification	and sco	Scram	NOTES
								A RX TRIP OCCURRED ON STEAM FLOW GREATER THAN FEED FLOW	
								COINCIDENT WITH A LOW SG LEVEL AFTER A FEEDWATER	
								REGULATING VALVE FAILED CLOSED. THE CAUSE WAS A FAILED	
	00/01/00	200						DRIVER CARD IN THE SG WATER LEVEL CONTROL SYSTEM RESULTING	
ORTH ANNA 2	03/31/03	339	2	3392003001	39715	OPERATE	AUTO	FROM A BLOWN FUSE.	
								A RX TRIP OCCURRED FOLLOWING A FAILURE IN THE EHC POWER	
								SUPPLY SYSTEM. THE FAILURE CAUSED A LOSS OF LOAD TRANSIENT	
								THAT RESULTED IN THE RX TRIPPING ON LOW SG LEVEL.	
ODTH ANNA 2	12/22/01	220	٦	2202001005	20500	ODEDATE	ALITO	COMPONENTS HAD FAILED IN BOTH THE NORMAL AND BACKUP EHC	
IORTH ANNA 2	12/22/01	339		3392001005	38590	OPERATE	AUTO	POWER SUPPLIES. A TURBINE TRIP/RX TRIP RESULTED FROM THE ACTUATION OF A	
								•	
								STATION SERVICE LOCKOUT RELAY. THE CAUSE WAS A FAULT ON A SECONDARY FEEDER CABLE FROM A STATION SERVICE	
ORTH ANNA 2	04/03/00	339	2	3392000001	26057	ODEDATE	ΔΙΙΤΟ	TRANSFORMER TO A STATION SERVICE BUS.	
ONTH ANNA 2	04/03/00	339	۷	3392000001	30637	OPERATE	AUTO	THE RX WAS MANUALLY TRIPPED DUE TO THE LOSS OF A RCP WHEN	
								THE RESERVE STATION TRANSFORMER DEENERGIZED. THE CAUSE	
								WAS PERSONNEL ERROR WHEN THE INCORRECT POTENTIAL	
								TRANSFORMER FUSE DRAWER WAS OPENED WHILE RECOVERING A	
ORTH ANNA 2	04/04/00	339	2	3392000002	36864	OPERATE	ΜΔΝ	STATION SERVICE BUS.	SEE ALSO LER 3382000002.
ORTH ANNA 2	04/04/00	333		3332000002	30004	OFERATE	IVIAIN	THE REACTOR WAS MANUALLY TRIPPED AT 17% DUE TO HIGH	3EE AL30 EEN 3302000002.
								VIBRATIONS ON TWO REACTOR COOLANT PUMPS. THE HIGH RCP	
								VIBRATION SIGNAL WAS A FALSE SIGNAL DUE TO A FAILED POWER	
CONEE 1	08/07/10	269	2	2692010002	46159	OPFRATE	MAN	SUPPLY WITHIN THE CONTROL MODULE.	
	00,01,10		_					UNITS 1 AND 2 TRIPPED AUTOMATICALLY FOLLOWING A GRID	
								DISTURBANCE. THE CAUSE OF THE TRIPS WAS A WIRING DESIGN	
								ERROR ON THE LOSS-OF-EXCITATION RELAYS THAT CAUSED A	
								GENERATOR LOCK-OUT. BOTH REACTORS TRIPPED BY THE REACTOR	
CONEE 1	02/15/07	269	2	2692007001	43169	OPERATE	AUTO	COOLANT PUMP MONITORS.	
								A TURBINE/RX TRIP OCCURRED WHEN THE GENERATOR DISCONNECT	
								SWITCH ON THE "Z" PHASE FAILED. THE FAILURE WAS CAUSED FROM	
								HIGH OPERATING TEMPERATURE RESULTING FROM EITHER	
								INADEQUATE AIRFLOW OR INADEQUATE CAPACITY OF THE	
CONEE 1	09/12/01	269	2	2692001002	38281	OPERATE	AUTO	DISCONNECT SWITCHES.	
								THE REACTOR TRIPPED DUE TO A TURBINE TRIP. THE TURBINE	
								TRIPPED ON LOW CONDENSER VACUUM DURING MAINTENANCE ON	
CONEE 2	03/31/08	270	2	2702008001	44109	OPERATE	AUTO	THE CONDENSER VACUUM INSTRUMENTATION.	
								UNITS 1 AND 2 TRIPPED AUTOMATICALLY DUE TO A GRID	
								DISTURBANCE. THE CAUSE OF THE TRIPS WAS A WIRING DESIGN	
								ERROR ON THE LOSS-OF-EXCITATION RELAYS THAT CAUSED THE	
								GENERATOR TO LOCK-OUT. THE REACTORS WERE TRIPPED BY THE	
CONEE 2	02/15/07	270	2	2692007001	43169	OPERATE	AUTO	REACTOR COOLANT PUMP MONITORS.	
								A RX TRIP OCCURRED ON A FLUX/FLOW/IMBALANCE AFTER THE TRIP	
								OF A RCP. TECHNICIANS TESTING AN RCP PUMP POWER	
						 		TRANSDUCER CAUSED A LOSS OF ISOLATION WITH THE OPERATING	
CONEE 2	04/12/06	270	2	2702006001	42493	OPERATE	AUTO		
								THE REACTOR AUTOMATICALLY TRIPPED AT 42% POWER DUE TO A	
								GENERATOR PHASE DIFFERENTIAL LOCKOUT. THE ROOT CAUSE OF	
				00-00-0		05== :==		THE TRIP WAS INCORRECT RELAY TAP SETTINGS FOLLOWING	SCRAM CAUSED BY RPS ACTUATION OF THE GENERATOR
OCONEE 3	05/21/09	287	2	2872009002	45088	OPERATE	AUTO	PREVENTIVE MAINTENANCE.	PHASE DIFFERENTIAL LOCKOUT.

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				/ .	A Municipation	/	Scram Cause Description	
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PLANT HAME	EVENT	DATE	JON See	EME	A Motifie	MODE SCO	and Acause	
PLAN	EVER	DOCKET	AEGION Licensee	Eve	JMIT JMIT	/ 50	ScramCo	MOTES
							THE REACTOR TRIPPED DUE TO RPS ACTUATION. THE CAUSE OF THE	
							RPS ACTUATION WAS LOSS OF THE ROD POWER SUPPLY, WHICH RESULTED IN THE CONTROL RODS DROPPING. THE CAUSE OF THE	SCRAM CAUSED BY RPS ACTUATION DUE TO LOSS OF THE
0001155 3	44/07/00	207	207200004	44620	ODEDATE		POWER SUPPLY LOSS WAS AN IMPROPER CLOCK SIGNAL INPUT TO	SINGLE ROD POWER SUPPLY, WHICH RESULTED IN THE
OCONEE 3	11/07/08	287	2 2872008001	44638	OPERATE	AUTO	THE CRD PROCESSORS. A RX TRIP OCCURRED WHEN POWER TO THE CONTROL ROD DRIVE	CONTROL RODS DROPPING.
							SYSTEM WAS INTERRUPTED DURING TESTING. THE CAUSE WAS A	
OCONEE 3	08/31/05	287	2 2872005002	41966	OPERATE		CONTROL ROD DRIVE DESIGN DEFICIENCY INTRODUCED DURING A MODIFICATION IN 2004.	
							A TURBINE/RX TRIP OCCURRED WHEN A SMALL PIECE OF FOREIGN	
							MATERIAL CLOGGED THE HYDRAULIC FLUID ENTRY PORT OF A TURBINE STOP VALVE, CAUSING ALL FOUR STOP VALVES TO CLOSE.	
							THE CAUSE WAS INATTENTION TO DETAIL BY TWO MAINTENANCE	
OCONEE 3	02/26/04	287	2 2872004001	40548	OPERATE	AUTO	TECHNICIANS.	
							A MAIN TURBINE/RX TRIP OCCURRED ON HIGH MOISTURE	
							SEPARATOR DRAIN TANK LEVEL. THE CAUSE WAS THREE SEPARATE EQUIPMENT FAILURES. TWO DIGITAL VALVE CONTROLLERS FAILED	
OCONEE 3	11/14/02	287	2 2872002001	39369	OPERATE		AND A HIGH LEVEL SWITCH BECAME STUCK.	
							A RX TRIP RESULTED FROM A MANUAL TURBINE TRIP. THE TURBINE	
							WAS TRIPPED BECAUSE OF HIGH STATOR TEMPERATURE DURING A	
							STATOR COOLING RUNBACK TRANSIENT. THE CAUSE WAS A FAILED TEMPERATURE CONTROLLER FOR THE STATOR COOLING SYSTEM	
OCONEE 3	01/03/00	287	2 2872000001	36557	OPERATE	AUTO	PROPORTIONING VALVE.	
							WHILE PERFORMING LO-LO LEVEL TESTING, TWO OF THE MSIVS	
							WENT CLOSED. THIS RESULTED IN A REACTOR TRIP. THE MSIV CLOSURE WAS CAUSED BY MISALIGNED CONNECTOR PINS IN THE	
NUMERALIE DT. 1	11/10/10	220	1 2202010001	46400	ODEDATE	ALITO	MSIV CHANNEL 11 SOLENOID VALVES AND A MISALIGNED CHANEL 12	
NINE MILE PT. 1	11/10/10	220	1 2202010001	46409	OPERATE	AUTO	LOGIC RELAY DURING TESTING.	
							THE REACTOR WAS MANUALLY SCRAMMED DUE TO FAILURE OF THE	
							FEEDWATER LEVEL CONTROL SYSTEM. THE CAUSE OF THE FAILURE WAS A PROGRAMMING ERROR IN THE FIRMWARE THAT CONTROLS	
NINE MILE PT. 1	10/05/09	220	1 2202009003	45412	OPERATE	MAN	THE FEEDWATER PUMP FLOW CONTROL VALVE.	
							THE REACTOR WAS MANUALLY TRIPPED WHEN IT WAS DETERMINED	
							THAT THE ELECTRONIC PRESSURE REGULATOR WAS NOT	
							FUNCTIONING PROPERLY AND WOULD NOT ALLOW TRANSFER TO THE BACKUP REGULATER. THE CAUSE OF THE FAILURE WAS DEBRIS	
NINE MILE PT. 1	10/23/08	220	1 2202008002	44598	OPERATE	MAN	PLUGGING THE INTERNAL EPR SERVO FILTER.	
							A TURBINE TRIP/RX SCRAM OCCURRED FOLLOWING A SPURIOUS ACTUATION OF THE MOISTURE SEPARATOR TANK LEVEL SWITCH. THE	
							CAUSE WAS A SHORT CIRCUIT RESULTING FROM WATER INTRUSION	
NINE MILE PT. 1	03/07/05	220	1 2202005001	41464	OPERATE	AUTO	INTO A JUNCTION BOX. A SCRAM OCCURRED ON LOSS OF A POWER BOARD WHICH RESULTED	
							IN A HALF SCRAM SIGNAL WHILE A HALF SCRAM SIGNAL ALREADY	
							EXISTED DUE TO TESTING. THE CAUSE WAS INADVERTANT MECHANICAL RELAY JARRING WHICH OCCURRED DURING A	
NINE MILE PT. 1	08/18/05	220	1 2202005003	41927	OPERATE		MAINTENANCE ACTIVITY.	
							THE RX WAS MANUALLY SCRAMMED WHEN AN ELECTROMATIC RELIEF VALVE STUCK OPEN AND FAILED TO CLOSE DURING POST	THE SYSTEM AT NMP1 REFERED TO AS HPCI IS NOT AN ESF
NINE MILE PT. 1	05/02/04	220	1 2202004001	40719	OPERATE	MAN	MAINTENANCE TESTING.	SYSTEM PER CODING MANUAL.

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					at Repo	t humber Just		AM Scram Cause I Description	
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								THE RX WAS MANUALLY SCRAMMED ON OSCILLATING RX VESSEL	
								WATER LEVEL AFTER A FEEDWATER LEVEL CONTROL VALVE BEGAN OPERATING ERRATICALLY. THE CAUSE WAS A RUPTURED	
								DIAPHRAGM IN THE OUTPUT PILOT VALVE FOR THE "13" FEEDWATER	
NINE MILE PT. 1	08/30/04	220	1	2202004004	40998	OPERATE	MAN	FLOW CONTROL VALVE POSITIONER.	
								A TURBINE TRIP/RX SCRAM OCCURRED ON A LOAD REJECT. THE	
NINE MILE PT. 1	08/14/03	220	1	2202003002	40071	OPERATE		CAUSE WAS A MAJOR GRID DISTURBANCE AND BLACKOUT.	
								A TURBINE TRIP/RX SCRAM OCCURRED FOLLOWING A MAIN	
								GENERATOR LOAD REJECT RESULTING FROM A GRID PERTURBATION COUPLED WITH A MALFUNCTION OF THE NEGATIVE PHASE	
								SEQUENCE CURRENT RELAY. THE CAUSE WAS A DESIGN FLAW IN THE	
NINE MILE PT. 1	08/22/01	220	1	2202001001	38225	OPERATE	AUTO	RELAY.	
								THE RX WAS MANUALLY SCRAMMED AFTER A MAIN STEAM	
								ELECTROMATIC RELIEF VALVE OPENED AND COULD NOT BE SHUT.	
								THE CAUSE WAS A BENT PILOT VALVE STEM COMBINED WITH	
NINE MILE PT. 1	10/02/00	220	1	2202000004	37396	STARTUP	MAN	PARTIAL DISENGAGEMENT OF THE DISC AND STEM ASSEMBLY.	
								DURING MAINTENANCE ACTIVITIES ON THE RHR SYSTEM, THE	
								REACTOR AUTOMATICALLY SCRAMMED ON AN INVALID LOW	
AUAU 5 DT 2	04/07/40	440		44.0204.0004	45.64.0	0050475		REACTOR WATER LEVEL SIGNAL. TRANSMITTER VENTING OF A	
NINE MILE PT. 2	01/07/10	410	1	4102010001	45612	OPERATE	_	COMMON INSTRUMENT LINE WAS THE CAUSE OF THE TRIP SIGNAL. A TURBINE TRIP/RX SCRAM OCCURRED ON A LOSS OF CONDENSER	+
								VACUUM. THE CAUSE WAS A LOSS OF SEALING STEAM WHEN	
								MECHANICAL LINKAGE FOR THE PRESSURE INDICATING CONTROLLER	
NINE MILE PT. 2	03/09/06	410	1	4102006001	42403	OPERATE	AUTO	BECAME DISCONNECTED.	
								A RX SCRAM OCCURRED ON POWER OSCILLATIONS AFTER A POWER	
								SUPPLY TO THREE OF FOUR MAIN STEAM LINE FLOW INSTRUMENTS	
l	12 - 12 -		_					FOR THE FEEDWATER LEVEL CONTROL SYSTEM FAILED. THE CAUSE	
NINE MILE PT. 2	07/24/03	410	1	4102003001	40014	OPERATE	AUTO	WAS AGE RELATED FAILURE OF INTERNAL COMPONENTS.	
								A RX SCRAM RESULTED FROM A TURBINE CONTROL VALVE FAST	
								CLOSURE SIGNAL THAT WAS GENERATED AS THE EHC SYSTEM	
NINE MILE PT. 2	09/14/02	410	1	4102003002	40066	ODEDATE		ATTEMPTED TO CONTROL TURBINE SPEED AND RX PRESSURE IN RESPONSE TO A SEVERE DISTURBANCE IN THE ELECTRIC GRID.	
ININE WILL P1. 2	08/14/03	410		4102003002	40000	OPERATE	-	A RX SCRAM OCCURRED ON HIGH RX PRESSURE AFTER AN MSIV	
								FAILED CLOSED. THE MSIV DISC SEPARATED FROM ITS STEM	
								ALLOWING THE DISC/PISTON ASSEMBLY TO DROP INTO THE VALVE	
NINE MILE PT. 2	11/11/02	410	1	4102002004	39362	OPERATE		SEAT. THE CAUSE WAS DEFICIENT DESIGN, INADEQUATE STEM TO DISC THREAD LOADING.	
WINE WILL I I. Z	11/11/02	710		4102002004	33302	OT LIVATE	7.010	DISC TIMENO LONDING.	1
								A RX SCRAM OCCURRED ON HIGH RX PRESSURE FOLLOWING A LOSS	
								OF MAIN GENERATOR STATOR WATER COOLING AND TURBINE RUNBACK. THE STATOR WATER COOLING TEMPERATURE	
								CONTROLLER MECHANICAL LINKAGE CONNECTION FAILED FROM	
NINE MILE PT. 2	12/16/02	410	1	4102002006	39450	OPERATE	AUTO	VIBRATION INDUCED FATIGUE FAILURE.	
NUME NAME OF C	05/46/04			4402004004	27000	0055475		A TURBINE/RX TRIP RESULTED FROM THE FAILURE OF A RELAY IN THE	
NINE MILE PT. 2	05/16/01	410		4102001001	3/994	OPERATE	AUTO	ELECTRO HYDRAULIC CONTROL SYSTEM.	
								A SCRAM OCCURRED WHEN THE MSIVS FAST CLOSED WHILE	
								RESTORING A STEAM FLOW TRANSMITTER FOLLOWING TESTING. THE	
NINE MILE PT. 2	10/15/01	410	1	4102001004	38389	OPERATE	AUTO	CAUSE WAS AN INADEQUATE SURVEILLANCE PROCEDURE.	

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								THE RX WAS MANUALLY SCRAMMED ON DECREASING RX WATER	
								LEVEL FOLLOWING THE LOSS OF A FEEDWATER PUMP. THE FEEDWATER PUMP MOTOR FAILED AS A RESULT OF A FAULTY DESIGN	
NINE MILE PT. 2	12/02/01	410	1	4102001006	38531	OPERATE		THAT LED TO CORONA INDUCED DAMAGE.	
								THE RX WAS MANUALLY SCRAMMED WHEN THE PRIMARY SYSTEM	
								UNIDENTIFIED LEAK RATE EXCEEDED FIVE GPM. THE CAUSE WAS FAILED PACKING IN A RX COOLANT SYSTEM GATE VALVE DUE TO AN	
								INADEQUATE TORQUE SPECIFICATION FROM THE PACKING	
NINE MILE PT. 2	12/15/01	410	1	4102001007	38574	OPERATE		PROGRAM.	
								WHILE PERFORMING A NORMAL PLANT SHUTDOWN, THE RX WAS	
								MANUALLY SCRAMMED DUE TO THE POTENTIAL LOSS OF THE ONLY OPERATING FEED PUMP. OPERATORS WERE CONCERNED ABOUT THE	
								PUMP DUE TO LOW SEAL INJECTION FLOW, HIGH PRESSURE	
NINE MILE PT. 2	03/03/00	410	1	4102000002	36753	OPERATE	MAN	INDICATIONS, AND A STEAM LEAK.	AN SSF IS CODED FROM THIS LER.
								A TURBINE TRIP/RX TRIP RESULTED FROM HIGH TURBINE BEARING	
								VIBRATION. THE CAUSE WAS OIL WHIP/WHIRL (MOVEMENT OF THE OIL WEDGE BETWEEN THE TURBINE SHAFT AND BEARING SLEEVE).	
								LOW LUBE OIL TEMP MADE CONDITIONS FAVORABLE FOR OIL	
NINE MILE PT. 2	09/17/00	410	1	4102000014	37335	OPERATE	AUTO	WHIP/WHIRL.	
								DURING STARTUP, WITH THE REACTOR CRITICAL AT 0%, THE	
								REACTOR TRIPPED ON A LOW CONDENSER VACUUM SIGNAL. THE TRIP WAS CAUSED BY A PROCEDURAL ERROR THAT DID NOT ENSURE	
								ALL REQUIREMENTS WERE MET PRIOR TO EXCEEDING 500-PSIG	
OYSTER CREEK	12/23/10	219	1	2192010002	46507	STARTUP	AUTO	REACTOR PRESSURE.	
OYSTER CREEK	02/01/09	219	1	2102000001	11022	ODEDATE	ALITO	THE REACTOR TRIPPED FROM FULL POWER DUE TO A FIRE IN THE MAIN TRANSFORMER.	THE REACTOR TRIPPED DUE TO LOSS OF THE MAIN TRANSFORMER.
OTSTER CREEK	02/01/09	219	1	2192009001	44022	OPERATE	AUTU	THE REACTOR WAS MANUALLY TRIPPED WHEN COOLING WAS LOST	TRAINSFORIVIER.
								TO ONE OF THE MAIN TRANSFORMERS. POWER TO THE COOLING	
0,46750 00554	0.4/25/00	240		240200000	45004	0050475		SYSTEM WAS LOST WHEN THE CONTROL POWER TRANSFER TO THE	
OYSTER CREEK	04/25/09	219		2192009003	45021	OPERATE	MAN	COOLING SYSTEM FAILED. THE REACTOR TRIPPED FOLLOWING A TURBINE DUE TO LOSS OF	
OYSTER CREEK	07/12/09	219	1	2192009005	45196	OPERATE	AUTO	OFFSITE POWER CAUSED BY LIGHTNING STRIKES.	
								A REACTER SCRAM OCCURRED DUE TO A MAIN TRANSFORMER	
OVETED CDEEK	11/20/00	210		2402000001	14600	ODEDATE	ALITO	FAULT. THE FAULT WAS CAUSED BY AN ELECTRICAL FAULT INTERNAL	
OYSTER CREEK	11/28/08	219	1	2192008001	44688	OPERATE	AUTU	TO THE MAIN TRANSFORMER. THE REACTOR TRIPPED ON LOW REACTOR WATER LEVEL FOLLOWING	
								LOSS OF THE "C" FEEDWATER PUMP. THE FEEDWATER PUMP	
OYSTER CREEK	07/17/07	219	1	2192007001	43495	OPERATE	AUTO	TRIPPED DUE TO AN ELECTRICAL FAULT.	
								WITH REDUCED POWER FOR B REACTOR RECIRC PUMP MAINTENANCE, LOSS OF CONDENSER VACUUM CAUSED A MAIN	
								FEEDWATER PUMP TRIP. THE OPERATOR MANUALLY TRIPPED THE	
OYSTER CREEK	12/19/07	219	1	2192007003	43854	OPERATE	MAN	REACTOR ON LOW REACTOR WATER LEVEL.	
								A THIRDING TOIR /DV CORANA OCCURRED ON A CENTRATOR TOR	
								A TURBINE TRIP/RX SCRAM OCCURRED ON A GENERATOR TRIP FOLLOWING AN OFFSITE ELECTRICAL TRANSIENT ON THE 230 KV	
								TRANSMISSION LINE. THE CAUSE WAS A FAILURE OF LIGHTNING	
OYSTER CREEK	06/01/05	219	1	2192005002	41741	OPERATE	AUTO	ARRESTORS IN THE TRANSMISSION UTILITY SUBSTATION.	
								A RX SCRAM OCCURRED AFTER THE IRMS SPIKED CAUSING SCRAM	
								SIGNALS IN BOTH RPS CHANNELS. THE CAUSE WAS ELECTROMAGNETIC INTERFERENCE AFFECTING THE IRM CHANNELS	
								DUE TO LOOSE CONNECTIONS, DAMAGED CABLING, AND	
OYSTER CREEK	05/27/04	219	1	2192004003	40778	OPERATE	AUTO	GROUNDING DEFICIENCIES.	

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PLANT NAME	EVENT	DATE	LET /	GION licensee	ENC	at Motifi	MODE SCE	and make	
PLAIL	EVER	\ \delta_{C}	CHET	Gi licen	Eng.	IMI!	ر چرف	Scram Co	Mortes
								THE RX WAS MANUALLY SCRAMMED FROM 60% POWER DURING A	
								TECHNICAL SPECIFICATION REQUIRED SHUTDOWN AFTER THE LICENSEE WAS UNABLE TO REMOVE THE SECOND STAGE REHEATERS	
								AND FEEDWATER HEATERS FROM SERVICE. THE CAUSE WAS THE	THE EDG DID NOT START BECAUSE THE FAULT WAS ON THE
OYSTER CREEK	05/20/03	219	1		39862	OPERATE		LOSS OF A 4161 V SAFETY BUS. A TURBINE TRIP/RX SCRAM OCCURRED ON A MAIN GENERATOR	SAFETY BUS.
								LOCKOUT FOLLOWING OFFSITE ELECTRICAL GRID INSTABILITY. THE	
								CAUSE WAS A MAJOR GRID DISTURBANCE HOWEVER, OFFSITE	
OYSTER CREEK	08/14/03	219	1	2192003003	40065	OPERATE		POWER REMAINED AVAILABLE. A TURBINE TRIP/RX SCRAM OCCURRED ON HI MOISTURE SEPARATOR	
								WATER LEVEL. THE CAUSE WAS SPURIOUS ACTUATION OF THE	
OYSTER CREEK	08/22/03	219	1	2192003004	40095	OPERATE	AUTO	MOISTURE SEPARATOR HI LEVEL SWITCH.	
								THE RX WAS MANUALLY SCRAMMED WHEN MULTIPLE RX	
								RECIRCULATION PUMPS TRIPPED DURING SURVEILLANCE TESTING.	
OYSTER CREEK	01/21/00	219	1	2192000001	26612	OPERATE		AS A RESULT OF PERSONNEL ERROR, THE RECIRCULATION PUMP TRIP SYSTEM WAS NOT PROPERLY RESET.	
OTSTER CREEK	01/21/00	219		2192000001	30012	OPERATE	IVIAIN	STSTEW WAS NOT PROPERLY RESET.	
								THE RX WAS MANUALLY SCRAMMED AFTER THREE RECIRCULATION	
								PUMPS TRIPPED FROM A LOSS OF POWER. WHILE SHIFTING ELECTRIC LOADS FROM THE STARTUP TRANSFORMERS TO THE AUX	
								TRANSFORMER, A 4160 VAC BUS LOST POWER. THE ROOT CAUSE	
OYSTER CREEK	03/01/00	219	1	2192000003	36744	OPERATE	MAN	WAS INADEQUATE PROCEDURAL GUIDANCE.	
								A RX SCRAM OCCURRED ON LOW RX WATER LEVEL WHILE WARMING	
								THE MAIN TURBINE. AS A RESULT OF PERSONNEL ERROR, SEVERAL	
								TURBINE BYPASS VALVES OPENED, CAUSING RX LEVEL TO INCREASE. OPERATORS OVERCOMPENSATED WHEN LOWERING FEEDWATER	
OYSTER CREEK	11/15/00	219	1	2192000011	37525	STARTUP		FLOW AND INCREASING LETDOWN.	
								LOCC OF MAIN CENEDATOR LOAD RECUITED IN A MAIN TURRINE TRIP	
								LOSS OF MAIN GENERATOR LOAD RESULTED IN A MAIN TURBINE TRIP AND SUBSEQUENT REACTOR TRIP. THE LOSS OF LOAD WAS CAUSED	
								BY A GROUND FAULT ON THE STATION POWER TRANSFORMER DUE	
PALISADES	01/22/11	255	3	2552011002	46564	OPERATE	AUTO	TO FLAWS IN THE INSULATION OF A MEDIUM VOLTAGE CABLE. THE REACTOR WAS MANUALLY TRIPPED FOLLOWING AN AUTOMATIC	
								TRIP OF THE B MAIN FEEDWATER PUMP. THE CAUSE OF THE MFP	
								TRIP WAS LOW LUBE OIL PRESSURE DUE TO LOSS OF THE SHAFT-	
PALISADES	01/13/08	255	3	2552008001	43900	OPERATE	MAN	DRIVEN LUBE OIL PUMP. THE REACTOR AUTOMATICALLY TRIPPED. THE CAUSE OF THE TRIP	
								WAS RELATED TO A TRIP OF THE 346 NEGATIVE SEQUENCE RELAY	
DALICADEC	05/22/09	255	,	2552000003	44227	ODEDATE		WHICH TRIPPED THE 386C GENERATOR INDEPENDENT LOCKOUT	
PALISADES	05/23/08	255	3	2552008003	4423/	OPERATE	AUTU	INCLAT.	
								THE REACTOR AUTOMATICALLY TRIPPED ON LOW STEAM	
								GENERATOR LEVEL. THE LOW LEVEL RESULTED FROM SPURIOUS CLOSURE OF THE B FEEDWATER REGULATING VALVE DURING THE	
PALISADES	05/08/07	255	3	2552007005	43351	OPERATE		PERFORMANCE OF MFRV MAINTENANCE ACTIVITIES.	
DALICABEC	05/44/05	255	_	255200000	43566	0050475	D 4 A A	THE RX WAS MANUALLY TRIPPED FOLLOWING THE FAILURE OF A	
PALISADES	05/11/06	255	3	2552006005	42569	OPERATE	IVIAN	CONTROL ROD TO WITHDRAW DURING A STARTUP. THE RX WAS MANUALLY TRIPPED ON LOWERING MAIN CONDENSER	
								VACUUM. THE CAUSE WAS THE FAILURE OF AN UNCAPPED LOW	
DALICADES	01/00/05	זרר	_	2552005004	11210	ODEDATE	N // A N I	PRESSURE TURBINE CASING DRAIN LINE THAT WAS ROUTED	
PALISADES	01/09/05	255	3	2552005001	41319	OPERATE	IVIAIN	THROUGH THE MAIN CONDENSER.	

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PLANT NAME	EVENT	DATE			Event	t hotification	MODE SCR	Cause	
PLANT	EVENT	\Q	CHET REC	310M Licensee	Eve	it. July	MC SCR	Schart	Martes
								THE RX WAS MANUALLY TRIPPED DUE TO A HYDROGEN LEAK AT THE	
								MAIN GENERATOR. THE LEAK WAS AT A SOCKET WELD AT A PIPING TEE CONNECTION ON A LEAK DETECTION LINE AND WAS CAUSED BY	
								CYCLIC FATIGUE OF THE WELD DUE TO VIBRATION AND A WELD	
PALISADES	09/01/05	255	3	2552005005	41967	OPERATE	MAN	FLAW. THE RX WAS MANUALLY TRIPPED DUE TO A FIRE IN THE CONDENSATE	
								PUMP "2B" LOWER MOTOR BEARING. THE CAUSE WAS PUMP AND	
PALISADES	08/31/04	255	3	2552004001	41002	OPERATE		MOTOR MISALIGNMENT RESULTING FROM INADEQUATE MAINTENANCE INSTRUCTIONS.	
TALISADES	08/31/04	233	,	2332004001	41002	OFERATE	IVIZIV	MAINTENANCE INSTRUCTIONS.	
								A RX TRIP OCCURRED ON LOSS OF MAIN GENERATOR LOAD RESULTING FROM A SWITCHYARD FAULT. A STATIC LINE ON A 345 KV	
								TRANSMISSION TOWER FELL AND CONTACTED SEVERAL SWITCHYARD	
	10/01/00							·	AFW STARTED AND PLANT PRESSURE/TEMP WAS
PALISADES	12/01/02	255	3	2552002002	39414	OPERATE	AUTO	NON-1E 4160 VOLT AC BUSES.	MAINTAINED ON NATURAL CIRCULATION.
								THE RX WAS MANUALLY TRIPPED FOLLOWING A LOSS OF BOTH MAIN	
								FEED PUMPS. AN EDG OUTPUT BREAKER WAS INADVERTENTLY CLOSED ONTO AN ENERGIZED BUS WITH THE EDG SECURED,	
								MOTORIZING THE EDG. THE RESULTING DEGRADED BUS VOLTAGE	
PALISADES	04/04/00	255	3	2552000003	36863	OPERATE	MAN	CAUSED THE LOSS OF THE FEED PUMPS.	
								AN ELECTRICAL FAULT IN THE 13.8KV NON-CLASS BUSES RESULTED IN	
								AN EXPLOSION AND LOSS OF POWER TO TWO REACTOR COOLANT	
PALO VERDE 1	03/07/10	528	4	5282010001	45748	OPERATE	AUTO	PUMPS. THE REACTOR TRIPPED DUE TO LOSS OF THE RCPS. THE REACTOR AUTO TRIPPED DUE TO THE CORE PROTECTION	
								CALCULATOR GENERATING A LOW DNBR TRIP. THE CAUSE OF THE	
PALO VERDE 1	10/21/06	E 2 0	4	E202006006	42025	ODEDATE		TRIP WAS FLUCTUATIONS IN A CONTROL ELEMENT ASSEMBLY POSITION INDICATOR.	
PALO VERDE I	10/21/06	528	4	5282000000	42925	OPERATE		A SCRAM OCCURRED ON HIGH SG WATER LEVEL DURING A STARTUP	
								WHILE OPERATORS WERE TRANSFERING FROM AFW TO MAIN	
								FEEDWATER. THE CAUSE WAS INDIVIDUAL AND TEAM HUMAN PERFORMANCE DEFICIENCIES AND INADEQUATE RESOLUTION OF	
PALO VERDE 1	08/26/05	528	4	5282005005	41951	STARTUP	AUTO	IDENTIFIED DFWCS ISSUES.	
								THE RX WAS MANUALLY TRIPPED DUE TO A CEA SLIPPING SIX INCHES WHILE PERFORMING LOW POWER PHYSICS TESTING. THE CAUSE WAS	
PALO VERDE 1	05/08/04	528	4	5282004003	40737	STARTUP		A SLUGGISH GRIPPER PROBLEM WITH CEA 89.	
								A RX TRIP OCCURRED ON LOW DNBR IN RESPONSE TO A GRID	
								DISTURBANCE AND LOSS OF OFFSITE POWER. THE CAUSE WAS A GROUND FAULT AND FAILED PROTECTIVE RELAYING IN THE OFFSITE	
PALO VERDE 1	06/14/04	528	4	5282004006	40815	OPERATE			
								THE RX WAS MANUALLY SCRAMMED ON INDICATIONS OF A	
								CONDENSER TUBE RUPTURE AND INCREASING SG SODIUM LEVELS.	
PALO VERDE 1	03/27/03	528	1	5282003002	30705	ODEBVIE		THE CAUSE WAS A DEGRADED TUBE PLUG THAT HAD BEEN INSTALLED PREVIOUSLY TO ISOLATE A LEAKING CONDENSER TUBE.	
TALO VENDE I	03/27/03	340	4	3202003002	39703	OF LINATE	_	THE RX WAS MANUALLY TRIPPED ON HIGH SULFATE	
DALO VEDDE 1	40/04/05	53 0			20222	0050475	D 4 4 5 1	CONCENTRATIONS IN THE SG'S. THE LICENSEE IS INVESTIGATING THE	
PALO VERDE 1	10/31/02	528	4		39333	OPERATE		CAUSE. A RX TRIP OCCURRED ON A LOW DNBR TRIP SIGNAL RESULTING	
								FROM A CONTROL ELEMENT ASSEMBLY (CEA) DEVIATION. THE CAUSE	
PALO VERDE 1	11/10/02	528	1	5282002001	30361	OPFRATE		WAS A FAILED OPTICAL ISOLATION CARD IN THE CONTROL SYSTEM FOR THE CEA.	
I VIO ATURE I	11/10/02	326	L 4	J202002001	73301	OFLINATE	14010	TON THE CEA.	

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PLANT HAN	EVENT.	DAY	SCHET RE	SION Licensee	Ene	nt Motification	MODE SCR	Ann Scram Cause I Description	NOTES
								THE REACTOR WAS MANUALLY TRIPPED DURING LOW POWER	
DALOVEDDE 3	05 /20 /00	F20	_	F202000002	44246	CTARTUR		PHYSICS TESTING WHEN FOUR CONTROL ELEMENT ASSEMBLIES	
PALO VERDE 2	05/28/08	529	4	5292008002	44246	STARTUP	IVIAN	SLIPPED TO FULLY INSERTED. THE OPERATOR MANUALLY TRIPPED THE REACTOR DUE TO HIGH	
								STEAM GENERATOR SODIUM LEVELS. THE HIGH SODIUM LEVELS	
								WERE CAUSED BY A CONDENSER AIR REMOVAL SYSTEM SEAL WATER	
PALO VERDE 2	10/06/07	529	4	5292007003	43697	OPERATE	MAN	COOLER TUBE RUPTURE.	
								FOLLOWING MAINTENANCE ON THE TURBINE CONTROL VALVE,	
								WHILE RESTORING THE SYSTEM, A RAPID INCREASE IN POWER	THE REACTOR TRIPPED DUE TO CORE PROTECTION
PALO VERDE 2	07/26/06	529	4	5292006003	42730	OPERATE		RESULTED IN THE REACTOR TRIPPING ON VARIABLE OVERPOWER.	CALCULATOR HIGH VARIABLE OVERPOWER.
-								A RX TRIP OCCURRED ON LOW DNBR IN RESPONSE TO A GRID	
								DISTURBANCE AND LOSS OF OFFSITE POWER. THE CAUSE WAS A	
								GROUND FAULT AND FAILED PROTECTIVE RELAYING IN THE OFFSITE	
PALO VERDE 2	06/14/04	529	4	5282004006	40814	OPERATE	AUTO	GRID. A RX TRIP OCCURRED ON LOW DNBR FOLLOWING A GENERATOR TRIP	
								AND POWER CUTBACK. THE CAUSE WAS LIGHTNING INDUCED	
PALO VERDE 2	07/14/04	529	4	5292004002	40870	OPERATE	AUTO	DAMAGE IN THE SWITCHYARD.	
	1 , , ,							THE RX WAS MANUALLY SCRAMMED AFTER A PZR SPRAY VALVE	
								OPENED AND FAILED TO CLOSE ON DEMAND. THE SPRAY VALVES AIR	
								OPERATED VALVE POSITIONER BALANCE BEAM WAS FOUND	
	07/20/02	F20		F202002001	40022	ODEDATE		DISENGAGED FROM ITS PIVOT POINT. THE CAUSE WAS INADEQUATE	
PALO VERDE 2	07/29/03	529	4	5292003001	40033	OPERATE	IVIAIN	MAINTENANCE PROCEDURES.	
								A RX TRIP OCCURRED ON LOW DEPARTURE FROM NUCLEATE BOILING	
								RATIO RESULTING FROM THE CLOSURE OF THREE OF FOUR MSIVS.	
								THE CAUSE WAS FAILURE OF A LOGIC BOARD AND PIN CONNECTOR	
PALO VERDE 2	07/13/01	529	4	5292001002	38138	OPERATE	AUTO	IN THE MAIN STEAM AND FEEDWATER ISOLATION SYSTEM.	
								A RX TRIP OCCURRED ON HIGH PZR PRESSURE FOLLOWING THE	
								CLOSURE OF ALL MSIVS. THE CAUSE WAS A POWER SUPPLY FAILURE	
								TO THE "A" TRAIN MAIN STEAM AND FEEDWATER ISOLATION	
PALO VERDE 2	08/26/00	529	4	5292000001	37261	OPERATE	AUTO	ACTUATION SYSTEM LOGIC CONTROL CABINET.	
								A DV TDID OCCUPDED AFTER DEACHING THE CODE REOTECTION	
								A RX TRIP OCCURRED AFTER REACHING THE CORE PROTECTION CALCULATOR AUXILIARY VARIABLE OVERPOWER TRIP SETPOINT. THE	
								CAUSE WAS COGNITIVE PERSONNEL ERROR WHILE PERFORMING	
PALO VERDE 2	11/18/00	529	4	5292000007	37533	OPERATE	AUTO	CONTROL ELEMENT ASSEMBLY MANIPULATIONS.	
								LOSS OF A MAIN FEEDWATER PUMP DUE LOW SUCTION PRESSURE	
								CAUSED BY A MINI-FLOW VALVE FAILING OPEN, RESULTED IN AN	
								AUTOMATIC RUNBACK FROM 100% TO 60%. THE REACTOR THEN TRIPPED ON LOW STEAM GENERATOR LEVEL AS LEVELS CONTINUED	
PALO VERDE 3	01/19/11	530	4	5302011001	46556	OPFRATE	AUTO	TO DECREASE.	
	2-, 23, 21	230	<u> </u>		13000			THE REACTOR WAS MANUALLY TRIPPED DUE TO LOSS OF	
								INSTRUMENT AIR TO THE CONTAINMENT. THE LOSS OF AIR WAS	
	45/:							CAUSED BY THE FAILURE A SOLENOID VALVE ON THE OUTBOARD	
PALO VERDE 3	12/03/09	530	4	5302009001	45537	OPERATE	MAN	CONTAINMENT ISOLATION VALVE.	
								ONE OF THE CEDM MG-SETS WAS SHUT DOWN FOR TROUBLE	
								SHOOTING, THE OTHER MG DID NOT MAINTAIN POWER RESULTING	
								IN A TURBINE TRIP AND REACTOR POWER CUTBACK. SUBSEQUENTLY,	
PALO VERDE 3	09/16/08	530	4	5302008001	44496	OPERATE	MAN	THE REACTOR WAS MANUALLY TRIPPED.	

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PLANTING	the Event	700	CHET	licens	Eve	nt Wolficat	`/ ¿ [©]	Scramco	Martes
				-				WHILE SHUTTING DOWN DUE TO A SECONDARY CHEMICAL	
DALO V/5DD5 2	00/27/00	520		F20200000	44525	0050475		EXCURSION, THE REACTOR WAS MANUALLY TRIPPED WHEN THE	
PALO VERDE 3	09/27/08	530	4	5302008002	44525	OPERATE	MAN	MAIN TURBINE EXPERIENCED HIGH VIBRATIONS. A RX TRIP OCCURRED ON LOW DEPARTURE FROM NUCLEATE BOILING	
								RATIO TRIPS ON ALL FOUR CHANNELS. THE CAUSE WAS AN	
								ELECTRONIC COMPONENT FAILURE ON A CIRCUIT BOARD THAT	
PALO VERDE 3	03/05/06	530	4	5302006002	42387	OPERATE		CAUSED AN INVALID CEA POSITION DEVIATION TO CEAC NUMBER ONE.	
	20,00,00							THE RX WAS MANUALLY TRIPPED DUE TO A LARGE LEAK IN THE	
DALO VEDDE 3	07/04/06	F20	4	F20200C00F	42604	ODEDATE		CONDENSATE SYSTEM. THE SIGHT GLASS FOR A CONDENSATE DEMIN	
PALO VERDE 3	07/01/06	530	4	5302006005	42681	OPERATE	MAN	VESSEL BLEW OUT OF THE VESSEL. THE REACTOR WAS MANUALLY TRIPPED WHEN LOSS OF CONDENSER	
								VACUUM AND A LOWERING HOTWELL LEVEL CAUSED THE TRIP OF	
								TWO CONDENSATE PUMPS. THE LOW CONDENSER VACUUM AND	
PALO VERDE 3	10/19/06	530	4	5302006007	42920	OPERATE		LOWERING HOTWELL WAS CAUSED BY THE HOTWELL DRAW-OFF VALVE FAILING OPEN.	
TALO VENDES	10/13/00	330		330200007	12320	01210112		A RX TRIP OCCURRED ON LOW DNBR AFTER THE MAIN TURBINE	
								INTERCEPT VALVES FAST CLOSED AND THE CONTROL VALVES	
								RAMPED CLOSED. THE CAUSE OF THE MAIN TURBINE VALVE CLOSURE IS BELIEVED TO BE A CONTROL SYSTEM MALFUNCTION IN THE SPEED	
PALO VERDE 3	06/07/04	530	4	5302004002	40795	OPERATE		CONTROL CIRCUIT.	
								A RX TRIP OCCURRED ON HIGH RX POWER FOLLOWING A GRID	
								DISTURBANCE AND LOSS OF OFFSITE POWER. THE CAUSE WAS A GROUND FAULT AND FAILED PROTECTIVE RELAYING IN THE OFFSITE	
PALO VERDE 3	06/14/04	530	4	5282004006	40816	OPERATE			
								A RX TRIP OCCURRED ON LOW DNBR DUE TO REDUCED RCS FLOW WHEN THE MAIN TURBINE TRIPPED DURING A GRID PERTURBATION.	
								THE CAUSE WAS FAILURE OF AUTOMATIC FAST BUS TRANSFER TO	
PALO VERDE 3	07/28/03	530	4	5302003004	40029	OPERATE	AUTO	TRANSFER LOADS BACK TO OFFSITE SOURCES.	
								A RX TRIP OCCURRED ON AN AXIAL SHAPE INDEX (ASI) TRIP FROM THE CORE PROTECTION CALCULATOR. PRIOR TO THE TRIP, THE PLANT	
								HAD REDUCED POWER TO 19% TO PERFORM MAIN TURBINE	
								MAINTENANCE. THE POWER REDUCTION PLAN DID NOT INCLUDE ALL	
PALO VERDE 3	05/19/01	530	4	5302001001	38013	OPERATE	AUTO	FACTORS CONCERNING ASI.	
								THE REACTOR WAS MANUALLY TRIPPED DURING PLANT SHUTDOWN	
								DUE TO LOSS OF CONDENSER VACUUM. THE LOSS OF VACUUM WAS	
POINT BEACH 1	07/26/10	266	3	2662010002	<i>1</i> 6129	OPERATE	ΜΔΝ	CAUSED BY INCORRECTLY POSITIONED TURBINE CROSSOVER STEAM DUMP MOTOR-OPERATED VALVES.	
TOINT BEACHT	07/20/10	200	3	2002010002	40123	OFERATE	IVIAIN	DOM WOTON-OF ENATED VALVES.	
								FAILURE OF A MAIN FEEDWATER REGULATING VALVE RESULTED IN	
POINT BEACH 1	06/05/07	266	2	2662007004	12107	ODEDATE	NAANI	THE OPERATORS MANUALLY TRIPPING THE REACTOR. FAILURE WAS CAUSED BY THE VALVE POSITIONER ARM BECOMING DISCONNECTED.	
ONT BLACE I	00/03/07	200	3	2002007004	+340 /	OI LINATE	IVIZALA	THE RX WAS MANUALLY TRIPPED ON A LOSS OF CONDENSER	
								VACUUM AFTER THE RUNNING CIRCULATING WATER PUMP TRIPPED.	
POINT BEACH 1	12/13/05	266	2	2662005008	<u>4</u> 2100	OPERATE	MAN	THE CAUSE WAS FATIGUE FAILURE OF THE MOTOR TO PUMP COUPLING BOLTS.	
ON BLACE	12/13/03	200	3	2002003000	74177	OI LINATE	IVIZALA	COOT LINE BOLTS.	
								A RX TRIP OCCURRED ON OVER TEMPERATURE DELTA TEMPERATURE	
								FOLLOWING THE LOSS OF A ROD DRIVE MG SET. THE CAUSE WAS A FAILED SURGE SUPPRESSOR COMPONENT IN THE POWER AND	
POINT BEACH 1	07/15/03	266	3	2662003002	39996	OPERATE		FEEDBACK CIRCUIT OF THE VOLTAGE REGULATOR.	

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PLAIN	EVER	100	SCHET PER	licensee	Ene	JIMIT JIMIT	/ 50	AM Scram Co	Motes
								THE RX WAS MANUALLY TRIPPED DUE TO DECREASING LEVEL IN THE	
DOINT DEAGUE	04/04/00	266		2662000004	26640	0050475		CIRCULATING WATER SYSTEM FORE BAY. THE CAUSE WAS ICING OF	
POINT BEACH 1	01/21/00	266	3	2662000001	36610	OPERATE	MAN	THE OFF SHORE INTAKE STRUCTURE. THE RX WAS MANUALLY TRIPPED DUE TO CONCERNS FOR THE	
								SAFETY OF DIVERS WORKING IN THE UNIT 2 SIDE OF THE	
								CIRCULATING WATER PUMP HOUSE. THE CIRCULATING WATER	
								SYSTEM WAS SECURED AND ALL DIVERS WERE REMOVED FROM THE	
POINT BEACH 1	10/27/00	266	3	2662000010	37463	OPERATE	MAN	WATER. NO PERSONNEL WERE INJURED.	
								THE REACTOR WAS MANUALLY TRIPPED FOLLOWING AN AUTOMATIC	
I								TURBINE TRIP CAUSED BY A GENERATOR LOCKOUT SIGNAL. THE	
								GENERATOR LOCKOUT SIGNAL WAS CAUSED BY INCORRECTLY	THE REACTOR WAS SHUTTING DOWN AT 44%, WHEN THE
								CALCULATED GENERATOR PROTECTION THIRD HARMONIC STATOR	GENERATOR TRIPPED. THE REACTOR WAS THEN
POINT BEACH 2	06/19/10	301	3	3012010001	46032	STARTUP	MAN	GROUND TRIP RELAY SETPOINTS.	MANUALLY SCRAMMED AT 0% POWER.
								THE REACTOR WAS MANUALLY TRIPPED DUE TO FAILURE OF THE "A"	
								FEEDWATER REGULATING VALVE. THE CAUSE OF THE FAILURE WAS THE FAILURE OF THE VALVE POSITIONER RANGE DIAPHRAGM	
POINT BEACH 2	07/09/10	301	3	3012010002	46080	OPERATE	MAN		
TOTAL BEACH 2	07/03/10	301		3012010002	10000	OT ETWATE	1717 (17	THE RX WAS MANUALLY TRIPPED WHEN A DIVER BECAME	
								ENTANGLED IN THE INTAKE CRIB. CIRCULATING WATER WAS	
								SECURED WHICH RENDERED THE MAIN CONDENSERS UNAVAILABLE	
POINT BEACH 2	05/15/04	301	3	3012004002	40754	OPERATE	MAN	FOR DECAY HEAT REMOVAL.	
								A DV TDID OCCUPRED ON CTEANA FLOW/FEED FLOW MICHARTOLI	
								A RX TRIP OCCURRED ON STEAM FLOW/FEED FLOW MISMATCH COINCIDENT WITH LOW SG WATER LEVEL AFTER A MAIN FEEDWATER	
								PUMP TRIPPED. THE CAUSE WAS FAILURE OF THE MOTOR STATOR	
POINT BEACH 2	07/10/03	301	3	3012003004	39988	OPERATE		WINDING INSULATION DUE TO AGE RELATED DEGRADATION.	
								A TURBINE/RX TRIP OCCURRED FOLLOWING A MAIN GENERATOR	
								LOCKOUT. THE LOCKOUT RESULTED FROM THE ACTUATION OF A	
								GENERATOR STATOR NEUTRAL GROUND FAULT DETECTION RELAYS.	
DOINT DEACH 2	02/06/01	201	2	2012001001	27722	ODEDATE	ALITO	THE REASON FOR THE RELAY ACTUATION COULD NOT BE DETERMINED.	
POINT BEACH 2	02/06/01	301	3	3012001001	3//22	OPERATE	AUTU	THE RX WAS MANUALLY TRIPPED ON LOW CIRC WATER PUMP BAY	
								LEVEL WHEN A LARGE INFLUX OF SMALL FISH RESULTED IN	
POINT BEACH 2	06/27/01	301	3	3012001002	38100	OPERATE	MAN	BLOCKAGE OF THE INTAKE TRAVELING SCREENS.	
								A RX TRIP OCCURRED DUE TO A FAILED CONTROL POWER FUSE IN AN	
								INTERMEDIATE RANGE NUCLEAR INSTRUMENTATION CHANNEL.	
POINT BEACH 2	12/14/00	301	3	3012000006	3759/	STARTUR		EXTENSIVE TESTING COULD NOT IDENTIFY ANY FAULTED CONDITION THAT WOULD HAVE CAUSED THE FUSE TO FAIL.	
FOINT BLACITZ	12/14/00	301	3	3012000000	37334	STARTOF	AUTU	A TURBINE/RX TRIP RESULTED FROM AN ELECTRICAL FAULT	
								ASSOCIATED WITH THE "C" PHASE OF THE MAIN STEP UP	
								TRANSFORMER. THE CAUSE WAS A FAILED CRIMPED CONNECTION IN	
POINT BEACH 2	12/20/00	301	3	3012000007	37621	OPERATE	AUTO	A CURRENT TRANSFORMER CIRCUIT.	
								A TUDDINE TOID /DV SCDANA OCCURDED VALUENTA FAUED NAVIAL	
								A TURBINE TRIP/RX SCRAM OCCURRED WHEN A FAILED MAIN TURBINE MECHANICAL TRIP VALVE ROUTINE TEST WAS INCORRECTLY	
PEACH BOTTOM 2	07/10/05	277	1	2772005001	41832	OPERATE	AUTO	ABORTED. THE CAUSE WAS FAILURE TO FOLLOW A PROCEDURE.	
	, :,:0			·		<u> </u>		THE RX WAS MANUALLY SCRAMMED ON DEGRADING MAIN	
								CONDENSER VACUUM. THE CAUSE WAS A LEAKING RX FEEDPUMP	
PEACH BOTTOM 2	02/22/04	277	1	2772004001	40537	OPERATE	MAN	TURBINE EXHAUST EXPANSION JOINT.	

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,		·	<u>, </u>					A SCRAM OCCURRED ON MSIV CLOSURE RESULTING FROM LOW	
PEACH BOTTOM 2	12/22/04	277	1	2772004003	41277	OPERATE		MAIN STEAM LINE PRESSURE FOLLOWING A MALFUNCTION OF THE ELECTROHYDRAULIC CONTROL SYSTEM. THE CAUSE WAS A FAILED EHC PRESSURE REGULATOR CIRCUIT CARD.	
								A RX SCRAM OCCURRED ON HIGH RX PRESSURE AFTER AN	
PEACH BOTTOM 2	04/12/03	277	1	2772003001	39752	OPERATE	AUTO	OUTBOARD MSIV CLOSURE. THE CAUSE WAS FATIGUE FAILURE OF A COPPER AIR LINE RESULTING FROM INADEQUATE SUPPORT.	
								A TURBINE TRIP/RX SCRAM OCCURRED FOLLOWING A MAIN GENERATOR PROTECTIVE RELAY ACTUATION. THE CAUSE WAS	
PEACH BOTTOM 2	07/22/03	277	1	2772003003	40010	ODERATE		REMNANTS OF FAILED BUS COOLING FAN BELTS IN THE ISOPHASE BUS DUCT WHICH CAME IN CONTACT WITH A BUS CONDUCTOR.	
TEACH BOTTOW 2	07/22/03	2//	1	2772003003	40010	OFERATE		A SCRAM OCCURRED WITH AN MSIV CLOSURE FOLLOWING THE LOSS OF OFFSITE POWER. THE CAUSE WAS A GRID DISTURBANCE	
PEACH BOTTOM 2	09/15/03	277	1	2772003004	40158	OPERATE		RESULTING FROM FAILURE OF OFFSITE PROTECTIVE RELAYING DURING A LIGHTNING STORM.	
TENON BOTTOM E	03/13/03			2772003001	10233	0. 22		A RX SCRAM OCCURRED ON AN MSIV CLOSURE RESULTING FROM	
PEACH BOTTOM 2	12/21/02	277	1	2772002001	39466	OPERATE		LOW RX PRESSURE. THE CAUSE WAS A TURBINE EHC CIRCUIT CARD FAILURE THAT CAUSED MULTIPLE TURBINE BYPASS VALVES TO OPEN.	
								A TURBINE/RX TRIP OCCURRED DURING TROUBLESHOOTING OF THE TURBINE EHC SYSTEM. THE CAUSE WAS THE FAILURE OF AN EHC	
PEACH BOTTOM 2	07/01/01	277	1	2772001002	38109	OPERATE	AUTO	SYSTEM POWER SUPPLY.	
								A TURBINE TRIP/RX SCRAM OCCURRED ON A MAIN GENERATOR LOCKOUT. AN ISOPHASE BUS GROUND FAULT RESULTED WHEN A	
								DUCTWORK VENTILATION DAMPER DETACHED AND FELL ONTO THE CONDUCTOR. THREE DAMPER MOUNTING SCREWS HAD BEEN	
PEACH BOTTOM 2	10/23/01	277	1	2772001004	38419	OPERATE	AUTO	STRIPPED DURING PREVIOUS MAINTENANCE. THE RX WAS MANUALLY SCRAMMED FOLLOWING AN UNPLANNED	
PEACH BOTTOM 2	09/15/00	277	1	2772000003	37330	OPERATE	MAN	RX RECIRCULATION PUMP TRIP. THE CAUSE WAS IMPROPER TAGOUT COORDINATION.	
								DURING REACTOR SHUTDOWN, THE REACTOR WAS MANUALLY TRIPPED WHEN THE FEEDWATER LEVEL CONTROLLER ADDED	
PEACH BOTTOM 3	09/13/09	278	1	2782009006	45348	STARTUP	MAN	ENOUGH COLD WATER TO CAUSE REACTOR PERIOD TO DROP BELOW 50 SECONDS.	
								A SCRAM OCCURRED WITH AN MSIV CLOSURE FOLLOWING THE LOSS OF OFFSITE POWER. THE CAUSE WAS A GRID DISTURBANCE	
PEACH BOTTOM 3	09/15/03	278	1	2772003004	40158	OPERATE		RESULTING FROM FAILURE OF OFFSITE PROTECTIVE RELAYING DURING A LIGHTNING STORM.	
								A RX SCRAM RESULTED FROM AN INVALID LOW RX WATER LEVEL SIGNAL. THE CAUSE WAS A FAILURE OF A PACKING GLAND	
PEACH BOTTOM 3	08/07/00	278	1	2782000001	37212	OPERATE	AUTO	FOLLOWER, WHICH DEPRESSURIZED THE VARIABLE LEG TO VARIOUS INSTRUMENTS.	
		_						FOLLOWING A LOSS OF OFFSITE POWER DUE TO A TORNADO TOUCHING DOWN IN THE SWITCHYARD, UNIT TWO IS BEING	
PRAIRIE ISLAND 1	04/16/11	282	3		46761	OPERATE		SUPPLIED POWER FROM THE 2EDG AND THE 3EDG. A LOCKOUT TRIP OF A CIRC WATER PUMP RESULTED IN A	
DDAIDIE ICI TATE	07/17/19	25-	-	2022222	450==	0055:==		CONDENSER DIFFERENTIAL PRESSURE TRIP. THIS TRIPPED THE MAIN TURBINE AND REACTOR. THE CAUSE OF THE PUMP TRIP WAS AN AGE-	
PRAIRIE ISLAND 1	05/18/09	282	3	2822009005	45077	OPERATE	AUTO	RELATED FAILURE OF A POWER SUPPLY CABLE.	

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								THE REACTOR SCRAMMED DURING REACTOR PROTECTION SYSTEM TESTING. ONE OVER TEMPERATURE DELTA T CHANNEL WAS IN TEST	REACTOR TRIPPED DURING TESTING WHEN ONE OVER TEMPERATURE DELTA T CHANNEL WAS IN TEST AND A
PRAIRIE ISLAND 1	07/31/08	282	3	2822008002	44377	OPERATE	AUTO	WHEN A CONTROLLER IN THE OTHER CHANNEL FAILED. THE RX WAS MANUALLY TRIPPED FOLLOWING THE TRIP OF A	CONTROLLER IN THE OTHER CHANNEL FAILED.
								CONDENSATE AND FEEDWATER PUMP. THE CAUSE OF THE	
PRAIRIE ISLAND 1	04/14/06	282	3	2822006001	42504	OPERATE		CONDENSATE PUMP TRIP WAS DEGRADED MOTOR INSULATION DUE TO MAINTENANCE PROGRAM DEFICIENCIES.	
								THE RX WAS MANUALLY TRIPPED ON HIGH LEVEL IN A FEEDWATER	
	/ /	202		202200200	20276	0050475		HEATER. THE CAUSE WAS A KNOWN EXISTING PROBLEM WITH AN	
PRAIRIE ISLAND 1	11/15/02	282	3	2822002002	39376	OPERATE	MAN	EXTRACTION BELLOWS IN THE FEEDWATER HEATER.	
								A RX TRIP OCCURRED ON NEGATIVE FLUX RATE AFTER A GROUP OF CONTROL RODS DROPPED INTO THE CORE. THE CAUSE WAS WATER	
								INTRUSION INTO A CONTROL ROD DRIVE POWER SUPPLY CABINET	
PRAIRIE ISLAND 1	08/01/01	282	3	2822001004	38179	OPERATE		WHEN AN OVERHEAD ROOM COOLER DRIP TRAY OVERFLOWED. A TURBINE/RX TRIP OCCURRED FOLLOWING A FIRE IN A 4KV BUS	
								WHILE ALIGNING ELECTRICAL POWER FROM THE RESERVE	
								TRANSFORMER TO THE MAIN TRANSFORMER. THE CAUSE WAS A BREAKER FAILURE RESULTING FROM A POOR BREAKER TO BUS	
PRAIRIE ISLAND 1	08/03/01	282	3	2822001005	38185	OPERATE		ELECTRICAL CONNECTION.	
								WHILE SHUTTING DOWN, THE REACTOR TRIPPED FOLLOWING A	
								TURBINE TRIP. THE TURBINE TRIPPED ON HIGH DIFFERENTIAL	
								PRESSURE BETWEEN THE CONDENSERS. THE CAUSE OF THE HI DP WAS CONDENSATE BLOCKING THE SEALING STEAM TO THE MSR	
PRAIRIE ISLAND 2	04/16/10	306	3	3062010001	45851	OPERATE		SAFETY VALVES CAUSING THEM TO OPEN.	
								THE REACTOR TRIPPED FOLLOWING A MAIN TURBINE TRIP. THE	
DDAIDIE ICLAND 3	05/25/40	206	2	2052040002	45052	0050475		CAUSE OF THE TURBINE TRIP WAS THE LOSS OF THE 21 MAIN	
PRAIRIE ISLAND 2	05/25/10	306	3	3062010002	45952	OPERATE	AUTO	FEEDWATER PUMP DUE TO THE FAILURE OF ITS PRESSURE SWITCH.	
								DURING DYNAMIC ROD WORTH MEASUREMENTS, CONTROL BANK A-	
PRAIRIE ISLAND 2	10/30/08	306	3	3062008002	44615	STARTUP	MAN	1 STOPPED INSERTING WHILE BANK A-2 CONTINUED TO INSERT. THE REACTOR WAS MANUALLY TRIPPED DUE TO ROD MISALIGNMENT.	
								RPS ACTUATION OCCURRED DURING SURVEILLANCE TESTING OF THE	
PRAIRIE ISLAND 2	04/05/07	306	3	3062007001	43280	OPERATE		SAFETY INJECTION SYSTEM DUE TO A SPURIOUS TRIP. THIS RESULTED IN A REACTOR TRIP.	
								A RX TRIP OCCURRED ON A MANUAL TURBINE TRIP FOLLOWING HIGH	
								CONDENSER VACUUM DIFFERENTIAL PRESSURE. THE CAUSE WAS NOT CONCLUSIVELY DETERMINED BUT COULD HAVE BEEN AIR	
PRAIRIE ISLAND 2	05/00/01	306	2	3062001004	27070	ODEDATE		LEAKAGE THROUGH THE MOISTURE SEPARATOR REHEATER RELIEF	
FNAME ISLANU Z	05/09/01	300	3	3002001004	3/3/3	OFERAIL	A010	VALVLJ.	
								THE RX WAS MANUALLY TRIPPED ON INCREASING CONDENSER DIFFERENTIAL PRESSURE WHILE ATTEMPTING TO REPAIR A LEAKING	
								AIR EJECTOR STEAM SUPPLY VALVE. A VALVE ALIGNMENT ERROR	
PRAIRIE ISLAND 2	10/31/01	306	3	3062001005	38448	OPERATE		PROVIDED A PATH TO ATMOSPHERE FROM THE 2A CONDENSER. A TURBINE TRIP/RX TRIP OCCURRED WHILE SHUTTING DOWN FOR	
								REFUELING. THE TRIP WAS INITIATED BY A SPURIOUS FEEDWATER	
								HEATER HI HI LEVEL SIGNAL. IT WAS CONCLUDED THAT THE SIGNAL RESULTED FROM FLASHING IN THE LOWER SENSING LINE OF THE HI	
PRAIRIE ISLAND 2	04/28/00	306	3	3062000001	36942	OPERATE		HI LEVEL SWITCH.	

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								THE REACTOR WAS MANUALLY TRIPPED DUE TO LOSS CONTROL ROD	
PERRY	05/11/10	440	3	4402010003	45918	OPERATE	MAN	DRIVE CHARGING HEADER PUMPS. THE LOSS OF THE PUMPS WAS DUE TO THE LOSS OF POWER ON A DIVISION 2 INSTRUMENT RACK.	
								THE REACTOR TRIPPED FOLLOWING A MAIN TURBINE TRIP. THE	
								CAUSE OF THE TURBINE TRIP WAS AN INVALID MOISTURE	
								SEPARATOR REHEATER HIGH LEVEL SIGNAL. THE INVALID SIGNAL WAS DUE TO INCORRECT ADJUSTMENT OF THE LEVEL SWITCH	
PERRY	06/21/09	440	3	4402009001	45147	OPERATE	AUTO	FOLLOWING MAINTENANCE.	
								WHILE SHUTTING DOWN, A REACTOR RECIRCULATION PUMP	
								TRIPPED WHILE BEING SHIFTED TO SLOW SPEED. THE REACTOR WAS MANUALLY TRIPPED. THIS WAS DIFFERENT THAN THE PLANNED	
PERRY	10/16/09	440	3	4402009004	45440	OPERATE		SHUTDOWN SEQUENCE.	
								DURING DIGITAL FEEDWATER TUNING, THE REACTOR TRIPPED ON	
								LOW REACTOR LEVEL. WITH THE FEEDWATER PUMP IN MANUAL, LEVEL STARTED GOING DOWN, THE OPERATOR WAS UNABLE TO	
								RESTORE SUFFICIENT FLOW. THIS EVENT WAS CAUSED BY AN	
PERRY	05/15/07	440	3	4402007001	43363	OPERATE	AUTO	UNDETECTED DESIGN LOGIC ERROR.	
								THE REACTOR TRIPPED DUE TO A TURBINE CONTROL VALVE FAST	
									THE REACTOR TRIPPED ON A TURBINE CONTROL VALVE
PERRY	11/28/07	440	3	4402007004	43808	OPERATE	AUTO	POWER SUPPLIES IN THE DIGITAL FEEDWATER CONTROL SYSTEM. LOSS OF INSTRUMENT AIR CAUSED A FEEDWATER TRANSIENT WITH	FAST CLOSURE SIGNAL.
								THE REACTOR FEED BOOSTER PUMPS CAVITATING. THE REACTOR	
PERRY	12/13/06	440	3	4402006005	43049	OPERATE	MAN	WAS MANUALLY SCRAMMED.	
								THE RX WAS MANUALLY SCRAMMED ON UNDESIRABLE POWER TO	
								FLOW CONDITIONS AFTER BOTH RX RECIRCULATION PUMPS DOWN-	
								SHIFTED TO SLOW SPEED AND THAN PUMP "A" TRIPPED OFF. THE	
PERRY	01/06/05	440	3	4402005001	41310	OPERATE		CAUSE WAS A FAILED OPTICAL ISOLATOR IN THE RX RECIRCULATION SYSTEM LOGIC CIRCUITRY.	
	0 = 7 0 0 7 0 0				.1010	0. 1		A SCRAM OCCURRED WHEN CORE OSCILLATIONS WERE DETECTED BY	
								THE OPRIM MONITOR AFTER BOTH RECIRC PUMPS DOWNSHIFTED TO	
								SLOW SPEED. THE CAUSE WAS DETERMINED TO BE AN INTERMITTENT FAULTY OPTICAL ISOLATOR IN THE PUMP CONTROL	
PERRY	12/23/04	440	3	4402004002	41290	OPERATE	AUTO		
								A RX SCRAM OCCURRED ON A TURBINE CONTROL VALVE FAST	
PERRY	08/14/03	440	3	4402003002	40063	OPERATE		CLOSURE. THE CAUSE WAS A MAJOR GRID DISTURBANCE AND BLACKOUT.	
								A TURBINE TRIP/RX SCRAM OCCURRED DURING TESTING WHEN THE TURBINE PROTECTION DEVICE TRIP TEST MALFUNCTIONED AND	
								CAUSED THE MAIN TURBINE TO TRIP. THE CAUSE WAS FAILURE OF	
								THE TURBINE TRIP LATCH ASSEMBLY TO RESET AS A RESULT OF TWO	
PERRY	09/22/02	440	3	4402002001	39207	OPERATE	AUTO	MISSING SETSCREWS. THE RX WAS MANUALLY SCRAMMED ON DECREASING MAIN	
								CONDENSER VACUUM AFTER THE GENERATOR WAS TAKEN OFFLINE.	
								THE CAUSE WAS INADEQUATELY TORQUED COVERS ON THE	
PERRY	04/29/01	440	2	4402001001	37951	OPERATE		MOISTURE SEPARATOR DRAIN TANKS WHICH ALLOWED AIR TO ENTER THE CONDENSER.	
	5.,25,01	0			3,331	J. 2.0 (12			
								A RX SCRAM OCCURRED ON LOW RX WATER LEVEL FOLLOWING A	
PERRY	07/11/01	440	3	4402001003	38131	OPERATE	AUTO	LOSS OF FEEDWATER. THE CAUSE WAS A BLOWN FUSE IN A 24 VDC POWER SUPPLY TO FEEDWATER CONTROL INSTRUMENTATION.	
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PERRY	12/15/01	440	3	4402001005	38575	OPERATE		A RX SCRAM OCCURRED ON HIGH RX WATER LEVEL DUE TO AN EXCESSIVE FEEDWATER DEMAND TRANSIENT. THE CAUSE WAS A FAILED LOGIC CARD IN THE FEEDWATER LEVEL CONTROL SYSTEM.	
								THE REACTOR TRIPPED FOLLOWING LOAD REJECTION. THE LOAD REJECTION WAS CAUSED BY A SEVERE WINTER STORM. SNOW AND ICE BUILD-UP ON ACB-105 RESULTED IN A POWER LOSS TO THE	
PILGRIM	12/19/08	293	1	2932008006	44735	OPERATE		SAFEGUARDS PANELS. DURING A POWER REDUCTION TO BACKWASH THE MAIN CONDENSER, THE MAIN TURBINE TRIPPED RESULTING IN A SCRAM. THE CAUSE OF THE TURBINE TRIP LOW CONDENSER VACUUM DUE TO	
PILGRIM	07/10/07	293	1	2932007005	43479	OPERATE	AUTO	A CALIBRATION ERROR OF THE LOW VACUUM TURBINE TRIP MECHANISM.	
PILGRIM	03/13/06	293	1	2932006001	42414	OPERATE	MAN	THE RX WAS MANUALLY SCRAMMED ON HIGH TEMPERATURE IN THE AUGMENTED OFFGAS SYSTEM RECOMBINER. THE CAUSE WAS FAILURE OF THE CONTROLLER OF A PRESSURE CONTROL VALVE.	
								THE RX WAS MANUALLY SCRAMMED AFTER A RECIRC PUMP RUNBACK CAUSED CONFLICTING INDICATIONS THAT CORE FLOW COULD BE IN THE PROHIBITED REGION OF THE POWER TO FLOW MAP. A POST TRIP REVIEW FOUND THAT ACTUAL FLOW WAS	
PILGRIM	02/21/03	293	1	2932003001	39609	OPERATE		CONSERVATIVE. A RX SCRAM OCCURRED ON MSIV CLOSURE RESULTING FROM SWELL	
PILGRIM	05/10/02	293	1	2932003002	20057	STARTUP		AFTER THE MAIN TURBINE BYPASS VALVES WERE INADVERTENTLY OPENED AND DEPRESSURIZED THE RX VESSEL. THE CAUSE WAS OPERATOR ERROR WHEN THE SWITCH TO OPEN THE TURBINE BYPASS VALVES WAS OPERATED.	
	05/19/03							A RX SCRAM OCCURRED ON LOAD REJECT AFTER THE MAIN GENERATOR LOCKOUT RELAY TRIPPED. THE CAUSE WAS FAILURE OF A CONDUCTOR WITHIN THE LOW VOLTAGE PORTION OF THE UNIT	
PILGRIM	06/01/03	293	1	2932003003	39898	OPERATE		AUXILIARY TRANSFORMER. A SCRAM OCCURRED FROM THE TRIP OF BOTH RPS CHANNELS. ONE	
PILGRIM	08/13/01	293	1	2932001006	38206	OPERATE		CHANNEL TRIPPED FROM A LOSS OF POWER DURING AN ELECTRICAL SURVEILLANCE AND THE OTHER FROM HIGH FLUX FOLLOWING A TRIP OF BOTH RECIRC MG SETS. THE CAUSE WAS AN INADEQUATE SURVEILLANCE PROCEDURE.	TOM AND ANDY DISCUSSED POTENTIAL EK SSA. DECIDED NOT SSA BECAUSE EDG OUTPUT BKR WAS SPECIFICALLY REMOVED FROM SERVICE AND SHOULD NOT HAVE CLOSED.
PILGRIM	12/27/01	293	1	2932001007	38598	OPERATE		A RX SCRAM OCCURRED ON AN AVERAGE POWER RANGE HI-HI TRIP AFTER BOTH RECIRCULATION MOTOR GENERATOR SETS TRIPPED. THE MOST LIKELY CAUSE WAS A FAILED MICRO SWITCH IN AN ANALOG TRIP SYSTEM CALIBRATING UNIT.	
QUAD CITIES 1	08/12/10			2542010002				WHILE PERFORMING CONDENSER FLOW REVERSAL TESTING, THE REACTOR TRIPPED FOLLOWING A MAIN TURBINE TRIP. THE TURBINE TRIPPED ON LOW CONDENSER VACUUM CAUSED BY THE FAILURE OF ONE OF THE FLOW REVERSAL VALVES TO FULLY REVERSE FLOW.	
QUAD CITIES 1	02/22/06							A RX SCRAM OCCURRED ON A TURBINE GENERATOR LOAD REJECT SIGNAL DUE TO A TRIP OF THE MAIN POWER TRANSFORMER PHASE DIFFERENTIAL OVERCURRENT RELAY. THE CAUSE WAS DEGRADED WIRING INSULATION RESULTING IN A GROUND IN THE CURRENT TRANSFORMER.	

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								A RX SCRAM OCCURRED ON HIGH PRESSURE FOLLOWING A FAILURE	
QUAD CITIES 1	06/17/05	254	3	2542005005	41782	OPERATE		IN THE EHC SYSTEM WHICH RESULTED IN CLOSURE OF THE MAIN TURBINE CONTROL VALVES. THE CAUSE WAS A FAILURE IN ONE OF THE CONTROL VALVE INPUT CIRCUIT CARDS IN THE EHC SYSTEM.	
								A RX SCRAM OCCURRED ON LOW RX VESSEL WATER LEVEL WHEN A FEED WATER REGULATING VALVE LOCKED UP. THE CAUSE WAS AGE	
QUAD CITIES 1	12/06/00	254	3	2542000010	37573	OPERATE		RELATED FAILURE OF A SOLDER JOINT ON THE MASTER CONTROLLER FOR THE FEED WATER REGULATING VALVE.	
OLIAD CITIES 2	00/47/40	265		2052040002	46404	ODEDATE		THE REACTOR WAS MANUALLY TRIPPED DUE TO INCREASING REACTOR WATER LEVEL. THE WATER LEVEL WAS INCREASING DUE TO A TRIP OF A REACTOR RECIRCULATION PUMP, WHICH WAS HAVING	
QUAD CITIES 2	08/17/10	265	3	2652010002	40184	OPERATE	IVIAN	ITS PROGRAMMABLE LOGIC CONTROLLER ADJUSTED. THE REACTOR WAS MANUALLY TRIPPED AT 30% POWER DUE TO	
QUAD CITIES 2	02/28/07	265	3	2652007001	43198	OPERATE		DECREASING CONDENSER VACUUM. THE CAUSE WAS FAILURE OF AN AUX STEAM TO OFFGAS CONTROLLER RESULTING IN DECREASED NONCONDENSIBLE GAS REMOVAL EFFICIENCY, WHICH CAUSED INCREASED CONDENSER BACKPRESSURE.	
								A TURBINE TRIP/RX SCRAM OCCURRED DURING TURBINE THRUST BEARING WEAR DETECTOR TESTING. THE CAUSE WAS THE	
QUAD CITIES 2	03/30/04	265	3	2652004003	40625	OPERATE	AUTO	INAPPROPRIATE USE OF THE WRONG SURVEILLANCE PROCEDURE. THE RX WAS MANUALLY SCRAMMED ON INCREASING TORUS TEMPERATURE AFTER THE "3B" MAIN STEAM RELIEF VALVE FAILED	
QUAD CITIES 2	04/16/03	265	3	2652003002	39765	OPERATE		OPEN. THE CAUSE WAS EXCESSIVE LEAKAGE PAST THE PILOT VALVE SEAT.	
								THE RX WAS MANUALLY SCRAMMED ON INCREASING RX WATER LEVEL. THE CAUSE WAS A BLOWN FUSE IN THE DIGITAL FEEDWATER LEVEL CONTROL SYSTEM RESULTING FROM INADVERTENT GROUNDING OF TEST LEADS DURING AN INSTRUMENT	
QUAD CITIES 2	04/05/02	265	3	2652002002	38833	OPERATE		SURVEILLANCE. THE ROOT CAUSE WAS EQUIP DESIGN.	
QUAD CITIES 2	08/02/01	265	3	2652001001	38181	OPERATE	AUTO	A RX SCRAM OCCURRED WHEN A LIGHTNING STRIKE CAUSED A MAIN TRANSFORMER FAILURE AND A LOSS OF OFFSITE POWER.	
								A RX SCRAM OCCURRED DURING CALIBRATION OF MAIN STEAM LINE HIGH FLOW SWITCHES. A TECHNICIAN ADJUSTED A SWITCH THAT WAS NOT ISOLATED AND PREPARED FOR CALIBRATION, COMPLETING	
QUAD CITIES 2	05/05/00	265	3	2652000006	36976	OPERATE		THE LOGIC FOR A GROUP I ISOLATION, WHICH RESULTED IN THE SCRAM.	NO CHANGES PER REV 1.
								A RX SCRAM OCCURRED ON HIGH FLUX WHILE RETURNING A TURBINE CONTROL VALVE TO SERVICE FOLLOWING CORRECTIVE MAINTENANCE. THE HIGH FLUX RESULTED FROM AN	
QUAD CITIES 2	05/22/00	265	3	2652000007	37018	OPERATE	AUTO	UNANTICIPATED RESPONSE OF THE CONTROL VALVES, MOST LIKELY RESULTING FROM AIR ENTRAPPED IN THE EHC SYSTEM.	
								A RX SCRAM RESULTED FROM A C-PHASE DIFFERENTIAL RELAY TRIP. THE TRIP RESULTED FROM AN INSULATOR FAULT ON A 345 KV LINE CONNECTED TO THE STATION. BECAUSE OF DISTRIBUTION YARD CHANGES, INSUFFICIENT RELAY OPERATING MARGIN EXISTED	
QUAD CITIES 2	07/18/00	265	3	2652000008	37174	OPERATE	AUTO	DURING FAULTED CONDITIONS.	

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			,	///	Repo	nt Multiple to The Training The Training Trainin		Scram Cause I Description	
PLANT MAN	(ORTE			Eventi	A Motification	MODE	Cause IV	
PLANT	EVENT	700	CHET REC	ion licensee	Eve	nt ld Just	MODE	Seran Co	MOTES
								WHILE SHUTTING DOWN THE REACTOR, THE RECIRC PUMPS WERE	
								BEING TRANSFERRED FROM FAST TO SLOW. INSTEAD OF TRANSFERRING TO SLOW, THE RECIRC PUMPS TRIPPED AND THE	
RIVER BEND	09/20/09	458	4	4582009002	45369	OPERATE		OPERATOR INSERTED A MANUAL REACTOR TRIP.	
	00/20/00							THE REACTOR TRIPPED ON HIGH REACTOR PRESSURE. THE	
								APPARENT CAUSE WAS A MALFUNCTION OF THE MAIN TURBINE	
								CONTROL SYSTEM DUE TO A LOOSE, OIL-CONTAMINATED,	
RIVER BEND	03/05/08	458	4	4582008002	44034	OPERATE		ELECTRICAL CONNECTOR.	
RIVER BEND	05/04/07	1 E0	4	4592007002	4224E	ODEDATE		THE REACTOR WAS MANUALLY TRIPPED FOLLOWING LOSS OF COOLING TO THE NO. 2 MAIN TRANSFORMER.	
RIVER BEIND	05/04/07	458	4	4582007002	43345	OPERATE	-	A REACTOR TRIP OCCURRED DURING AVERAGE POWER RANGE	+
I								MONITOR SURVEILLANCE. THE TRIP WAS CAUSED WHEN THE GROUP	1
								2 CONTROL RODS DROPPED UNEXPECTEDLY. AS THE REACTOR	
								OPERATOR WAS RESPONDING TO THE DROPPED RODS, THE REACTOR	
RIVER BEND	09/26/07	458	4	4582007005	43668	OPERATE	AUTO	TRIPPED ON LOW WATER LEVEL.	
								THE REACTOR WAS MANUALLY SCRAMMED WHEN A FAULT ON A	
								480V SWITCHGEAR TRANSFORMER RESULTED IN LOSS OF THE "A"	
RIVER BEND	11/07/07	458	1	4582007006	/13773	OPERATE		NON-SAFETY 13.8KV BUS, WHICH CAUSED THE CONDENSATE AND FEED PUMPS TO TRIP.	
MVEN BEND	11/0//0/	730		+302007000	43773	OFERATE	4	A RX TRIP OCCURRED ON HIGH APRM HEAT FLUX AFTER BOTH	
								RECIRCULATION PUMPS DOWNSHIFTED TO SLOW SPEED. THE CAUSE	
								WAS A FAILED OPTICAL ISOLATOR IN THE CONTROL CIRCUIT FOR THE	
RIVER BEND	04/15/06	458	4	4582006004	42505	OPERATE	AUTO	END OF CYCLE RECIRCULATION PUMP TRIP.	
								AN AUTOMATIC SCRAM OCCURRED FOLLOWING CLOSURE OF THE	
RIVER BEND	10/19/06	458	1	4582006007	/2921	OPERATE		FEEDWATER ISOLATION VALVES. THE VALVES CLOSED WHEN THE OPERATOR DROPPED A CHART RECORDER ON THEIR PUSHBUTTONS.	
NIVEN BEND	10/13/00	430	- 4	4382000007	42321	OFERATE	A010	OF ENATOR DROFFED A CHART RECORDER ON THEIR TOSHBOTTONS.	
								THE RX WAS MANUALLY SCRAMMED DUE TO INDICATIONS AND	
								ALARMS OF A GENERATOR FIELD GROUND FAULT. ONE OF THE FIVE	
								RECTIFIER BANKS IN THE GENERATOR EXCITATION CONTROL SYSTEM	
50.455 55115				.=				WAS THE SOURCE OF THE GROUND. THE CAUSE WAS DEPOSITION OF	
RIVER BEND	01/15/05	458	4	4582005001	41339	OPERATE	-	STATOR CORROSION PRODUCTS.	
								A RX SCRAM OCCURRED FOLLOWING A PARTIAL LOSS OF OFFSITE POWER. THE CAUSE WAS SLOW SWITCHYARD BREAKER OPERATION	
								AND FAULT CLEARING TIME IN RESPONSE TO AN OFFSITE	
RIVER BEND	08/15/04	458	4	4582004001	40957	OPERATE		TRANSMISSION LINE FAULT.	
								A MAIN GENERATOR/TURBINE TRIP AND RX SCRAM OCCURRED AS	
								THE RESULT OF A SECOND INSULATOR FLASHOVER ON THE 230KV	
								MAIN GENERATOR OUTPUT LINE. THE CAUSE WAS THE BUILDUP OF	
RIVER BEND	10/01/04	458	4	4582004002	/1002	ODEDATE		CONTAMINANTS ON SWITCHYARD INSULATORS OVER TIME DUE TO COOLING TOWER DRIFT.	A LOSS OF ONE STATION SERVICE TRANSFORMER AND EDG START OCCURRED 13 MINUTES PRIOR TO THE RX TRIP.
NIVER DEINU	10/01/04	438	4	4302004002	41082	OFERAIE	-	A SCRAM OCCURRED ON POWER TO FLOW FOLLOWING THE LOSS OF	STANT OCCURRED 13 WIINOTES PRIOR TO THE RX TRIP.
								A VITAL INSTRUMENT BUS AND RESULTING LOSS OF FEEDWATER	
								LEVEL CONTROL. THE CAUSE WAS A FAULT IN A NONSAFETY RELATED	
RIVER BEND	12/10/04	458	4	4582004005	41252	OPERATE	AUTO	VITAL INVERTER.	
								THE RX WAS MANUALLY TRIPPED ON A MAIN TURBINE ELECTRO	
								HYDRAULIC CONTROL SYSTEM OIL LEAK. THE LEAK OCCURRED WHEN	
RIVER BEND	02/22/03	458	1	4582003001	30611	ODERATE		A SECTION OF HYDRAULIC TUBING NEAR THE MAIN TURBINE CONTROL VALVES DEVELOPED A THROUGH WALL CRACK.	NO CHANGES FROM REV 00.
NIVEN DEINU	02/22/03	4 0 8	4	4302003001	DAOTT	OPERAIL	INIAIN	CONTROL VALVES DEVELOPED A TRICUOUR WALL CRACK.	TINO CHANGES FROIN REV OU.

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					20,00	K. MU.		ascitation.	
N.W.	ķ /	NE.			Event Re	rification	-Ok	, se l de	
PLANT NAME	EVENT	Or OC	SCHE! PER	310M Licensee	Cuer	t Mumber July	MODE	And Scram Cause I Description	Mortes
		<u>/ </u>		<u> </u>					
								A RX SCRAM OCCURRED ON HIGH RX PRESSURE DURING MAIN TURBINE CONTROL VALVE TESTING. THE CAUSE WAS ERRATIC SPEED	
								SIGNALS POSSIBLY RESULTING FROM ELECTROSTATIC DISCHARGE IN	
RIVER BEND	09/22/03	458	4	4582003008	40191	OPERATE		THE TURBINE THAT CAUSED THE CONTROL VALVES TO CLOSE.	
								A RX SCRAM OCCURRED ON HIGH NEUTRON FLUX AFTER THE MAIN	
								TURBINE CONTROL VALVES CLOSED. THE MOST LIKELY CAUSE WAS A	
DU (50 D51)	00/10/00	450	١.,	4502002004		0050475		MOMENTARY GROUND CONDITION ON THE +22V TURBINE	
RIVER BEND	09/18/02	458	4	4582002001	39200	OPERATE		ELECTROHYDRAULIC CONTROL SYSTEM BUS. A RX SCRAM OCCURRED ON RX PRESSURE VESSEL HIGH PRESSURE	
								RESULTING FROM CLOSURE OF THE MAIN TURBINE CONTROL VALVES	
								DURING TURBINE CONTROL VALVE TESTING. THE LIKELY CAUSE WAS	
								DETERMINED TO BE A TURBINE SPEED SIGNAL ERROR GENERATED	
RIVER BEND	04/21/01	458	4	4582001001	37939	OPERATE		DURING TESTING.	
								THE RX WAS MANUALLY SCRAMMED IN RESPONSE TO DECREASING	
								MAIN CONDENSER VACUUM, WHICH OCCURRED WHILE RESPONDING	
RIVER BEND	09/21/00	150		4582000012	27244	ODEDATE		TO A LOW FLOW CONDITION IN THE OFFGAS SYSTEM. THE CAUSE WAS AN INADEQUATE OFFGAS ALARM RESPONSE PROCEDURE.	
RIVER BEIND	08/21/00	458	4	4582000012	3/244	OPERATE		THE REACTOR TRIPPED DUE TO THE TURBINE STOP VALVES GOING	
								CLOSED. THE STOP VALVE CLOSURE WAS DUE TO A COMMON MODE	
GINNA	12/30/09	244	1	2442009002	45597	OPERATE		FAILURE OF BOTH EHC PUMPS.	
								THE REACTOR TRIPPED ON OVER-TEMPERATURE DIFFERENTIAL	
								TEMPERATURE. THE CAUSE WAS A FAILURE OF THE TURBINE	
								ELECTRO-HYDRAULIC CONTROLLER RESULTING IN RAPID CLOSURE OF	
GINNA	01/27/07	244	1	2442007001	43128	OPERATE	AUTO	THE TURBINE CONTROL VALVES.	DIFFERENTIAL TEMPERATURE SIGNAL.
								THE PLANT TRIPPED WHEN LOW STEAM LINE PRESSURE RESULTED IN	
								A SAFETY INJECTION SIGNAL, CAUSED BY THE SPURIOUS TRIP OF THE "B" MAIN STEAM LINE MSIV. THE LOW STEAM LINE PRESSURE	
								RESULTED FROM THE "A" MSIV ATTEMPTING TO HANDLE FULL	
GINNA	03/16/07	244	1	2442007002	43243	OPERATE		STEAM LOAD REQUIREMENTS.	
	10, 20, 01				102.10			A RX/TURBINE TRIP OCCURRED ON AN ATWS SIGNAL AFTER A POWER	
GINNA	02/16/05	244	1	2442005001	41414	OPERATE	AUTO	SUPPLY IN THE FEEDWATER CONTROL SYSTEM FAILED.	
								A RX TRIP OCCURRED ON OVER TEMPERATURE DELTA TEMPERATURE	
								FOLLOWING A LOSS OF LOAD DURING A MAJOR GRID DISTURBANCE	
GINNA	08/14/03	244	1	2442003002	40068	OPERATE	AUTO	AND BLACKOUT.	
								THE RX WAS MANUALLY TRIPPED FOLLOWING A PARTIAL LOSS OF	
								OFFSITE POWER AND LOSS OF THE "B" RCP ON UNDERVOLTAGE. THE	
GINNA	10/15/03	244	1	2442003005	40248	STARTUP		CAUSE WAS DAMAGE FROM A WINDSTORM.	
	, , , , ,		1		<u> </u>	-	-	THE RX WAS MANUALLY TRIPPED FOLLOWING THE LOSS OF A MAIN	
								CIRCULATING WATER PUMP. THE PUMP TRIP WAS CAUSED BY THE	
GINNA	02/05/02	244	1	2442002001	38670	OPERATE	_	FAILURE OF A MOTOR FIELD WIRE.	
								THE RX WAS MANUALLY TRIPPED FOLLOWING A CONDENSER	
								CIRCULATING WATER PUMP TRIP. THE CAUSE WAS FAILURE OF THE	
GINNA	10/21/00	244	1	2442000005	27///	ODEDATE		EXCITATION VOLTAGE TRANSFORMER WHICH RESULTED IN LOSS OF EXCITATION FIELD TO THE PUMP MOTOR.	
GINNA	10/21/00	244	1	2442000005	3/440	OFERATE	IVIAIN	THE REACTOR TRIPPED FOLLOWING A TRIP OF THE MAIN TURBINE.	
								THE CAUSE OF THE TURBINE TRIP WAS FAULT ON A MANUALLY-	
								OPERATED DISCONNECT SWITCH, WHICH RESULTED IN A 345KV BUS	
SEABROOK	01/19/08	443	1	4432008001	43921	OPERATE		·	
								REACTOR WAS MANUALLY SCRAMMED AT 17% POWER DURING	
								SRARTUP. FOLLOWING A TURBINE TRIP CAUSED BY HIGH	MANUAL SCRAM AT 17% DURING STARTUP, DUE TO MAIN
SEABROOK	05/01/05	443	1	4432005006	41655	OPERATE	MAN	VIBRATIONS.	TURBINE HIGH VIBRATIONS.

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PLANT WANT	EVENT	DATE	CHET RE	GION Licensee	Event Rev	A Motification	MODE 5C	Adam Cause Description		NOTES	
								A RX TRIP OCCURRED ON LOW SG WATER LEVEL FOLLOWING A PARTIAL LOSS OF FEED AFTER THE "A" MFP CONTROL VALVES CLOSED AND THE PUMP COASTED DOWN. THE CAUSE WAS A FAILED CIRCUIT			
SEABROOK	10/31/03	443	1	4432003002	40286	OPERATE	AUTO	BOARD IN THE MFP GOVERNOR SPEED CONTROL.			
SEABROOK	03/05/01	443	1	4432001002	37810	OPERATE	AUTO	A RX TRIP OCCURRED ON HIGH POWER RANGE NEGATIVE FLUX RATE FOLLOWING A LOSS OF OFFSITE POWER. THE LOOP RESULTED WHEN SNOW BUILDUP ON A 345 KV TRANSMISSION LINE BUSHING CAUSED A FLASHOVER TO GROUND.			
SEABNOOK	03/03/01	713		7732001002	37010	OT ENVITE	7,010	A RX TRIP OCCURRED ON HIGH NEGATIVE FLUX RATE WHEN A ROD DROPPED DURING ROD OPERABILITY CHECKS. THE CAUSE WAS PARTICULATE DEPOSITS IN THE ROD DRIVE HOUSING AND/OR ON			
SEABROOK	10/15/01	443	1	4432001003	38390	OPERATE	AUTO	THE DRIVE ROD. THESE DEPOSITS INHIBITED THE STATIONARY GRIPPER ENGAGEMENT.			
SEABINGER	10/15/01	113		1132001003	30330	OT ENVILE	7.010	THE RX WAS MANUALLY TRIPPED ON LOWERING SG LEVELS FOLLOWING A MAIN FEED PUMP TRIP AND RX SETBACK. THE PUMP TRIP RESULTED FROM A DEGRADED CIRCUIT BOARD IN THE SOLID STATE PROTECTION SYSTEM, WHICH CAUSED A MOMENTARY HIGH-			
SEABROOK	06/26/00	443	1	4432000004	37117	OPERATE	MAN	HIGH SG LEVEL SIGNAL.			
SUSQUEHANNA 1	01/25/11	387	1	3872011002	46569	OPERATE	MAN	THE REACTOR WAS MANUALLY TRIPPED DUE TO AN UNISOLABLE LEAK IN THE STEAM EXTRACTION SYSTEM. THE STEAM LEAK WAS ISOLATED AFTER THE TURBINE WAS TRIPPED. THE REACTOR AUTOMATICALLY TRIPPED AT 32% POWER DURING			
								TESTING OF THE INTEGRATED FEEDWATER CONTROL SYSTEM. THE			
SUSQUEHANNA 1	04/22/10	387	1	3872010002	45866	OPERATE	AUTO	REACTOR TRIPPED ON LOW WATER LEVEL. THE REACTOR TRIPPED ON HIGH WATER LEVEL DURING TESTING OF			
SUSQUEHANNA 1	05/14/10	387	1	3872010002	45930	OPERATE	AUTO	THE INTEGRATED FEEDWATER CONTROL SYSTEM.			
SUSQUEHANNA 1	07/16/10	387	1	3872010003	46103	OPERATE	MAN	THE REACTOR WAS MANUALLY TRIPPED DUE TO AN UNISOLABLE LEAK IN THE CIRC WATER SYSTEM NEAR THE MAIN CONDENSER AREA. POWER WAS INITIALLY REDUCED TO 39% WHEN THE REACTOR WAS TRIPPED DUE DUE TO RISING WATER LEVEL IN THE CONDENSER AREA.			
SUSQUEHANNA 1	06/15/06	387	1	3872006004	42642	OPERATE	AUTO	A RX SCRAM OCCURRED ON AN APPARENT NEUTRON MONITORING TRIP WHILE TRANSFERRING RPS POWER SUPPLIES. THIS EVENT WAS CAUSED BY A DESIGN DEFICIENCY IN THE NEWLY INSTALLED POWER RANGE NEUTRON MONITORING SYSTEM.			
SUSQUEHANNA 1	11/25/06	387	1	3872006006	// // // // // // // // // // // // //	ODERATE	AUTO	THE REACTOR TRIPPED AUTOMATICALLY FOLLOWING A TURBINE TRIP. THE APPARENT CAUSE WAS IMPROPER SETTINGS OF THE CURRENT COMPENSATOR IN THE GENERATOR AUTOMATIC VOLTAGE REGULATOR.			
JUSQUENANINA 1	11/23/00	36/	1	3872000000	43011	OFERAIL	A010	THE RX WAS MANUALLY SCRAMMED ON MAIN TURBINE HIGH VIBRATION DURING STARTUP TURBINE TESTING FOLLOWING TURBINE REPLACEMENT. THE CAUSE WAS INADEQUATE PLANS TO			
SUSQUEHANNA 1	04/21/04	387	1	3872004003		OPERATE	MAN	DEAL WITH DEVELOPING CONDITIONS.			
SUSQUEHANNA 1	09/24/03	387	1	3872003006	40196	OPERATE	AUTO	A RX SCRAM OCCURRED ON LOW RX VESSEL LEVEL AFTER A FEED PUMP TRIPPED DURING FEED PUMP TESTING. THE CAUSE WAS PERSONNEL ERROR DURING THE TESTING.			

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					Repo	nt Motification		Scram Cause Description	
PLANT MAN		DATE			Even	nt Notification	MODE SCR	Cause	
PLANT	EVEN	700	CHET RE	ilOM Licensee	Eve	nt' UNIT	`\ _{50	and	MOTES
								THE RX WAS MANUALLY SCRAMMED FOLLOWING A SINGLE	
								RECIRCULATION PUMP TRIP WHEN CORE FLOW INDICATIONS PLACED	
								THE UNIT IN AN UNANTICIPATED LOCATION ON THE POWER TO FLOW MAP. THE CAUSE WAS A HIGH RESISTANCE CONNECTION ON	
SUSQUEHANNA 1	04/22/02	387	1	3872002004	38870	OPERATE	MAN	THE RECIRCULATION MG SET EXCITER.	
	0 1/22/02	301		0072002001	00070				
								A RX SCRAM OCCURRED ON A LOAD REJECTION. THE MAIN	
								GENERATOR EXCITATION SYSTEM HAD FAILED TO POSITIVELY	
CLICOLIELIANINIA 2	06/06/05	200	4	2002005005	44746	ODEDATE	ALITO	RESPOND TO CHANGES TO THE OFFSITE GRID WHICH RESULTED IN A	
SUSQUEHANNA 2	06/06/05	388	1	3882005005	41746	OPERATE	AUTU	LOSS OF GENERATOR FIELD CAUSING THE LOCKOUT. WHILE SHUTTING DOWN FROM 100% POWER DUE TO LOSS OF	
								COOLING TO THE B MAIN TRANSFORMER, REACTOR WAS MANUALLY	
SUSQUEHANNA 2	04/28/05	388	1	3882005003	41646	OPERATE	MAN	SCRAMMED AT 75% POWER.	
								THE RX WAS MANUALLY SCRAMMED WHEN THE RX RECIRCULATION	
								PUMPS TRIPPED. THE CAUSE WAS A LOSS OF POWER DURING A FIRE	
CUCOUEUANNA 2	40/02/02	200	4	2072002006	20242	CTARTUR		AT STARTUP TRANSFORMER "T-20" RESULTING FROM AN INTERNAL	
SUSQUEHANNA 2	10/03/02	388	1	3872002006	39242	STARTUP		FAULT. A TURBINE TRIP/RX SCRAM OCCURRED ON LOW CONDENSER	
								VACUUM AFTER THE OFFGAS SYSTEM ISOLATED. THE CAUSE WAS A	
								MOMENTARY LOSS OF 120 VAC POWER WHEN INADEQUATE WORK	
								INSTRUCTIONS CAUSED PLANT ELECTRICIANS TO INAPPROPRIATELY	
SUSQUEHANNA 2	09/30/02	388	1	3882002004	39233	OPERATE	AUTO	CLOSE A BREAKER.	
								THE REACTOR TRIPPED FOLLOWING A MAIN TURBINE/GENERATOR	
								TRIP. THE GENERATOR TRIPPED DUE TO LOSS OF THE MAIN POWER	
								TRANSFORMER. FAILURE OF THE TRANSFORMER WAS DUE TO THE	
SALEM 1	07/07/10	272	1	2722010002	46075	OPERATE	AUTO	INADVERTENT ACTUATION OF THE TRANSFORMER DELUGE SYSTEM.	
								THE REACTOR TRIPPED FOLLOWING A TURBINE TRIP. THE TURBINE	
								TRIPPED SHORTLY AFTER LOWERING THE REACTIVE LOADING ON THE	
								VOLTAGE REGULATOR. THE CAUSE OF THE TURBINE TRIP WAS THE LOSS OF A FIELD RELAY, WHICH PROVIDES LOSS OF EXCITATION	
SALEM 1	10/15/10	272	1	2722010005	46336	OPFRATE	AUTO	PROTECTION.	
	10/13/10		_		10000			THE REACTOR WAS MANUALLY TRIPPED DUE TO LOSS OF	
								CIRCULATING WATER. CIRC WATER WAS LOST DUE TO HEAVY	
SALEM 1	04/24/07	272	1	2722007002	43317	OPERATE	MAN	GRASSING AT THE CIRCULATION WATER INTAKE.	
								THE REACTOR WAS MANUALLY TRIPPED FOLLOWING A LOSS OF	
								CIRCULATING WATER. THE LOSS OF CIRC WATER WAS CAUSED BY GRASS INTRUSION INTO THE CIRCULATING WATER INTAKE	
SALEM 1	04/30/07	272	1	2722007002	43329	OPERATE	MAN	STRUCTURE.	
	1,00,07	_	_	223002	1		1	THE REACTOR TRIPPED ON LOW FLOW FOLLOWING FAILURE OF THE	
								12 STATION POWER TRANSFORMER, WHICH RESULTED IN THE LOSS	
SALEM 1	12/28/07	272	1	2722007003	43873	OPERATE	AUTO	OF RCPS 13 AND 14.	
								A TUDDINIE /DV TDID OCCUIDDED ON A COUDIOUS TUDDINIS OVERSOES	
								A TURBINE/RX TRIP OCCURRED ON A SPURIOUS TURBINE OVERSPEED SIGNAL. THE MOST PROBABLE CAUSE WAS ELECTRO MAGNETIC	
SALEM 1	03/08/06	272	1	2722006001	42395	OPERATE	AUTO	INTERFERENCE BY AN UNKNOWN SOURCE.	
								A TURBINE/RX TRIP OCCURRED FOLLOWING ACTUATION OF 500KV 1-	
								5 BREAKER WHICH ISOLATED THE GENERATOR. THE CAUSE WAS	
CALENA 4	07/22/25	270		272200200	40000	0050475	A 1 1 T C	FAILURE OF THE BREAKERS CURRENT TRANSFORMER CONTROL	
SALEM 1	07/29/03	272	1	2722003002	40030	OPERATE	AUTO	CABLE CONDUCTORS.	ļ

PLANTMAN	EVENT	DATE		on s	E Event Repo	nt Motification	MODE SC	AM Syram Cause Description	.5
P.LAM.	EVEN		OCHET	EGION Licenses	Ene	nt Just	`/&	Scram Co	WOTES
SALEM 1	11/12/02			1 2722002004				THE RX WAS MANUALLY TRIPPED ON LOW SG LEVEL FOLLOWING A FEEDPUMP RUNBACK. THE CAUSE WAS A VOLTAGE DECREASE IN THE CONTROL POWER TO ITS GOVERNOR WHEN A TECHNICIAN INADVERTENTLY GROUNDED THE POWER CIRCUIT FOR A VALVE LIMIT SWITCH DURING TROUBLESHOOTING.	
CALENAA	05/22/04	27/		4 272204006	20024	ODEDATE	ALITO	A TURBINE/RX TRIP OCCURRED ON A GENERATOR LOCKOUT RESULTING FROM A GENERATOR DIFFERENTIAL CURRENT RELAY TRIP. THE CAUSE WAS A DEGRADED TERMINATION ASSOCIATED	
SALEM 1	05/22/01	272	2	1 2722001006	38021	OPERATE	AUTO	THE RX WAS MANUALLY TRIPPED ON LOSS OF CONDENSER VACUUM. THREE OF SIX CIRC WATER PUMPS LOST POWER DURING AN ELECTRICAL TRANSIENT. THE REACTOR WAS SCRAMMED AFTER A	
SALEM 1	09/24/01	272	2	1 2722001008	38313	OPERATE	MAN	FOURTH PUMP TRIPPED ON HIGH TRAVELING SCREEN D/P. THE RX WAS MANUALLY TRIPPED FOLLOWING A LOSS OF CONDENSATE FLOW. THE CAUSE WAS ISOLATION OF THE LOW PRESSURE FEEDWATER HEATER STRINGS DUE TO RADIO FREQUENCY	
SALEM 1	01/06/00			1 2722000001		OPERATE		INTERFERENCE. THE RX WAS MANUALLY TRIPPED DUE TO RAPIDLY DECREASING GENERATOR OUTPUT. THE CAUSE WAS A MOMENTARY VOLTAGE LOSS IN THE EHC CIRCUITRY WHILE REPLACING A CIRCUIT CARD.	
SALEM 1	08/09/00							A RX TRIP OCCURRED ON HIGH NEGATIVE FLUX RATE WHEN A GROUP OF CONTROL RODS INSERTED INTO THE CORE. THE CAUSE WAS A FAILED CIRCUIT CARD IN THE ROD CONTROL SYSTEM.	
SALEM 1	12/08/00	272		1 2722000005	: 27570	ODEDATE	ALITO	A TURBINE/RX TRIP OCCURRED ON LOW SG WATER LEVEL FOLLOWING CLOSURE OF THE FEEDWATER REGULATING VALVES. THE VALVE CLOSURES RESULTED FROM A FAILED OUTPUT DRIVER CIRCUIT CARD IN THE SOLID STATE PROTECTION SYSTEM.	
SALEM 2	01/03/10			1 3112010001		OPERATE		THE REACTOR WAS MANUALLY TRIPPED DUE TO THE LOSS OF FOUR OF THE SIX CIRC WATER PUMPS DUE TO EXCESSIVE UPTAKE OF RIVER ICE.	
SALEM 2	01/21/10	31:	L	1 3112010002	45647	OPERATE	AUTO	FOLLOWING A FEEDWATER PUMP TRIP AND TURBINE RUNBACK, THE REACTOR AUTOMATICALLY TRIPPED ON LOW STEAM GENERATOR LEVEL. THE CAUSE OF THE PUMP TRIP WAS AN INTERNAL WIRING SHORT.	
SALEM 2	10/17/10	31:	L	1 3112010003	46337	OPERATE	AUTO	RETURNING THE REGULATOR TO AUTOMATIC. ON THE	ACTOR TRIPPED DUE TO 4-KV BUS UNDERVOLTAGE E BUSES SUPPLYING THREE OF THE RCPS.
SALEM 2	05/09/08	31:	L	1 3112008002	44195	OPERATE	MAN	LOSS OF THE TRAVELING SCREENS RESULTED IN LOSS OF CIRCULATING WATER. WHILE POWER WAS BEING REDUCED HIGH SG LEVEL RESULTED IN A MANUAL SCRAM. THE CAUSE OF THE HIGH SG LEVEL WAS THE FEED REG VALVE SWITCHING TO MANUAL DUE TO THE STEAM FLOW SIGNAL SPIKING LO	

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			/			nt Motification		Scram Cause Description	
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PLANT MAN	EVENT	\ \s	SCHET RE	GION Licensee	twe	nt hotification	MODE SCE	Scram Co	Martes
								A BREACH IN THE CONDENSATE SYSTEM RESULTED IN LOW FEED	
								PUMP SUCTION PRESSURE, WHICH RESULTED IN A LOW STEAM	
SALEM 2	05/24/07	311	1	3112007002	13383	ODERATE		GENERATOR LEVEL REACTOR TRIP. THIS EVENT WAS THE RESULT OF FAILURE OF A SIGHT GLASS IN THE CONDENSATE DEMINERALIZER,	
SALLIVI Z	03/24/07	311		3112007002	43362	OFLINATE	AUTU	THE FEED REG VALVES CLOSED DUE TO A SPURIOUS FEEDWATER	
								INTERLOCK SIGNAL. THE CAUSE OF THE SPURIOUS SIGNAL WAS A	
								FAULTY SOLID STATE PROTECTION SYSTEM OUTPUT CARD. SUBSEQUENTLY, THE REACTOR TRIPPED ON LOW STEAM GENERATOR	
SALEM 2	08/06/07	311	1	3112007003	43550	OPERATE			
								THE REACTOR WAS MANUALLY SCRAMMED WHEN THE 21 RCP SEAL	
								LEAK-OFF FLOW EXCEEDED THE PUMP TRIP CRITERIA. THE MOST	
								PROBABLE CAUSE WAS OXYGEN INTRODUCED INTO THE RCS THAT CAUSED CORROSION PRODUCTS TO BECOME DISLODGED AND	
SALEM 2	09/26/06	311	1	3112006003	42864	OPERATE		DEPOSITED ONTO THE RCP SEALS.	
								A RX TRIP OCCURRED ON LOW SG WATER LEVEL AFTER A FEEDWATER	
SALEM 2	07/13/04	311	1	3112004006	10865	OPERATE	ΔΙΙΤΟ	REGULATING VALVE FAILED TO RESPOND. THE CAUSE WAS A FAILED VALVE POSITIONER.	
JACETAL Z	07/13/04	311		3112004000	10003	OT ETV (TE	7.010	THE RX WAS MANUALLY TRIPPED ON LOWERING SG WATER LEVEL	
								WHEN A MAIN FEEDWATER REGULATING VALVE MALFUNCTIONED.	
SALEM 2	07/15/04	211	1	3112004007	40075	OPERATE	NAANI	THE CAUSE WAS VALVE POSITIONER FAILURE DUE TO STICKING OF THE POSITIONER PILOT STEM.	
SALEIVI Z	07/15/04	311	1	3112004007	40873	OPERATE	IVIAIN	A TURBINE/RX TRIP OCCURRED ON GENERATOR DIFFERENTIAL	
								CURRENT AND LOSS OF FIELD. THE CAUSE WAS A GENERATOR	
	l							EXCITER BRUSH FAILURE RESULTING FROM INADEQUATE	
SALEM 2	09/09/04	311	1	3112004008	41028	OPERATE	AUTO	MAINTENANCE. THE RX WAS MANUALLY TRIPPED IN RESPONSE TO LOSS OF	
								CIRCULATING WATER PUMPS AND THE TRAVELING SCREENS. THE	
								CAUSE WAS HEAVY GRASS AND DEBRIS INTRUSION FROM THE	
SALEM 2	03/29/03	311	1	3112003001	39713	OPERATE	MAN	DELAWARE RIVER.	ļ.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
								THE RX WAS MANUALLY TRIPPED WHEN A ROD DROPPED DURING	
								LOW POWER PHYSICS TESTING. THE CAUSE WAS A BLOWN FUSE ON	
SALEM 2	11/23/03	311	1	3112003003	40350	STARTUP	MAN	THE STATIONARY COIL RESULTING FROM INFANT MORTALITY.	ļ.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
								A RX TRIP OCCURRED ON OVER TEMPERATURE DELTA TEMPERATURE	
								AFTER A PZR SPRAY VALVE FAILED OPEN. THE CAUSE WAS CYCLIC	
CALENAS	42/24/04	244		2442004000	20500	ODEDATE	ALITO	FATIGUE FAILURE OF THE STANDOFF ARM PORTION OF THE VALVE	
SALEM 2	12/31/01	311	1	3112001008	38599	OPERATE	AUTO	POSITION FEEDBACK ASSEMBLY TO THE POSITIONER. THE REACTOR WAS MANUALLY TRIPPED DUE TO A LARGE LEAK ON	+
								THE MAIN TURBINE SEAL OIL/LUBE OIL SYSTEM. THE CAUSE OF THIS	
								EVENT WAS IMPROPER MAINTENANCE ON THE AIR SIDE SEAL OIL	
HARRIS	11/15/09	400	2	4002010002	45499	OPERATE	MAN	STRAINER. WHILE SHUTTING DOWN DUE A DEGRADED CONDENSER BOOT SEAL,	
								THE REACTOR WAS MANUALLY TRIPPED AT 21% POWER DUE TO	
HARRIS	08/11/08	400	2	4002008002	44404	OPERATE	MAN	INDICATIONS OF DEGRADED CONDENSER VACUUM.	
								WHILE REDUCING POWER FOR SHUTDOWN, THE STARTUP	
HARRIS	09/28/07	400	2	4002007003	43676	OPERATE	AUTO	TRANSFORMER TRIPPED. THIS RESULTED IN A REACTOR TRIP ON RCP UNDERFREQUENCY.	
	55,25,07	.55	<u> </u>	.302007003	1.50,0	2. 2.0.112	1.5.0	THE REACTOR TRIPPED AUTOMATICALLY WHEN THE MAIN TURBINE	
								TRIPPED DUE TO A GENERATOR LOCKOUT SIGNAL. THE CAUSE OF	
HARRIS	00/10/00	400	,	4002006003	/20/10	OPERATE	ALITO	THE LOCKOUT SIGNAL WAS SELF HEATING OF THE PROTECTIVE RELAY	
HAMMO	09/19/06	400		4002000003	1 44040	OFERATE	IVOIO	INIODOLL.	

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PLANTE	Mant Event	DATE	SCHET	HOM Licensee	Ene Ene	nt Motification	MODE SC	Scram Cause Description	MOTES
HARRIS	05/01/05	400	2			OPERATE		MANUALLY TRIPPED REACTOR FROM 100% FOLLOWING AN AUTOMATIC TRIP OF AN OPERATING CONDENSATE PUMP. CONDENSATE PUMP B FAILED DUE TO A MOTOR SHAFT SHEAR.	
HARRIS	05/06/04	400	2	4002004003	40730	OPERATE		A RX TRIP OCCURRED ON POWER RANGE NEGATIVE FLUX RATE TRIP SIGNAL AFTER FOUR RODS INSERTED INTO THE CORE. THE CAUSE WAS A FAILED CARD IN THE CONTROL ROD DRIVE CABINET.	
HARRIS	05/18/03	400	2	4002003001	39856	OPERATE	AUTO	A TURBINE/RX TRIP OCCURRED ON A SPURIOUS TURBINE OVERSPEED SIGNAL. THE MOST LIKELY CAUSE WAS AN ELECTRICAL FAILURE OF THE TURBINE OVERSPEED SENSING PROBE.	
								THE RX WAS MANUALLY TRIPPED AFTER LOSS OF A CONDENSATE BOOSTER PUMP RESULTED IN A TRIP OF THE OPERATING MAIN FEED PUMP. THE CAUSE WAS LOW OIL PRESSURE AFTER A RECENTLY REFURBISHED GEAR FAILED IN THE BOOSTER PUMPS VARIABLE SPEED	
HARRIS	05/20/03	400	2	4002003002	39864	OPERATE	MAN	FLUID COUPLING. THE RX WAS MANUALLY TRIPPED IN RESPONSE TO A TRIP OF THE "B" MAIN FEEDWATER PUMP. THE CAUSE WAS A FAILED BISTABLE COMPARATOR CARD ASSOCIATED WITH THE FEEDWATER FLOW	
HARRIS	06/14/03	400	2	4002003003	39938	OPERATE	MAN	CONTROL SYSTEM. THE RX WAS MANUALLY TRIPPED IN RESPONSE TO THE TRIP OF A CONDENSATE PUMP AND SUBSEQUENT FEED PUMP TRIP. THE	
HARRIS	08/17/03	400	2	4002003005	40084	OPERATE	MAN	SUPPLY BREAKER TRIPPED ON INSTANTANEOUS OVERCURRENT WHEN A LIGHTNING VOLTAGE SURGE OVERCAME THE MOTOR WINDING INSULATION. THE RX WAS MANUALLY TRIPPED ON LOW SG WATER LEVEL AFTER A	
HARRIS	01/02/02	400	2	4002002001	38604	OPERATE	MAN	FEEDWATER REGULATOR BYPASS VALVE FAILED SHUT. THE BYPASS VALVE'S I/P CONVERTOR FAILED DUE TO AN INTERNAL AIR BLOCKAGE.	
HARRIS	07/13/02	400	2	4002002002	20057	OPERATE	NAANI	THE RX WAS MANUALLY TRIPPED ON A MAIN TURBINE DIGITAL ELECTRIC HYDRAULIC CONTROL SYSTEM MALFUNCTION DURING INITIATION OF A DOWNPOWER FOR TESTING. THE CAUSE WAS A VOLTAGE/FREQUENCY UNIT FAILURE THAT RESULTED IN THE GOVERNOR VALVES GOING SHUT.	
			2					A RX TRIP OCCURRED ON LOW BUS VOLTAGE FOR TWO OF THREE RX COOLANT PUMPS. THE CAUSE WAS A SIGNIFICANT, SHORT-DURATION GRID DISTURBANCE GENERATED WHEN A FAULTED TRANSFORMER WAS ENERGIZED TO A 230 KV BUS APPROXIMATELY	
HARRIS	08/15/02	400	2	4002002003	39132	OPERATE	AUTO	TWENTY MILES OFFSITE. THE RX WAS MANUALLY TRIPPED ON LOW SG LEVEL FOLLOWING THE INADVERTENT CLOSURE OF A MAIN FEEDWATER ISOLATION VALVE. THE CAUSE WAS A RANDOM MANUFACTURING DEFECT OF A DIODE IN A SOLENOID VALVE FOR THE MAIN FEEDWATER ISOLATION VALVE	
HARRIS	06/20/00	400	2	4002000005	37097	OPERATE	MAN	ACTUATOR. THE REACTOR WAS MANUALLY TRIPPED WHEN TWO CONTROL RODS DROPPED WITHIN A SHORT PERIOD. THE CAUSE OF THE CONTROL ROD DROPS WAS FAILURE OF UNDER-RATED POWER SWITCH	
ST. LUCIE 1	06/16/10	335	2	3352010006	46018	OPERATE	MAN	SNUBBING CAPACITORS. THE RX WAS MANUALLY TRIPPED ON DECREASING SG WATER LEVEL DURING A STARTUP. THE CAUSE WAS FAILURE OF THE MAIN TURBINE	
ST. LUCIE 1	10/24/02	335	2	3352002002	39316	OPERATE	MAN	VALVES TO LATCH WHICH RESULTED IN A FEEDWATER TRANSIENT AND SUBSEQUENT FEEDPUMP TRIP.	

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PLANT MANN	E EVENT	DATE	CHET RE	ston licensee	Event	nt Multiples to not the Multiples to not the state of the	and Sch	AM Scram Cause Description	NOTES .
ST. LUCIE 1	06/05/01	335	2	3352001007	38053	OPERATE		A RX TRIP OCCURRED ON LOW RX COOLANT FLOW FOLLOWING A RCP TRIP. THE MOST PROBABLE CAUSE WAS THE SPURIOUS ACTUATION OF A MOTOR PROTECTIVE RELAY DEVICE.	
ST. LUCIE 2	04/15/10			3892010002				THE REACTOR WAS MANUALLY TRIPPED FOLLOWING A RAPID POWER REDUCTION DUE TO THE LIFTING OF A MOISTURE SEPARATOR REHEATER RELIEF VALVE.	
ST. LUCIE 2	04/01/09	389	2	3892009002	44952	OPERATE	MAN	THE REACTOR WAS MANUALLY TRIPPED DUE TO LOWERING CONDENSER VACUUM. THE LOWERING VACUUM WAS CAUSED BY THE INGRESS OF ALGAE AND SEAWEED INTO THE CIRCULATING WATER SYSTEM.	
ST. LUCIE 2	06/04/08	389	2	3892008002	44268	ODERATE		A MAIN FEEDWATER PUMP TRIPPED DUE TO LOSS OF A HEATER DRAIN PUMP. SUBSEQUENTLY, THE REACTOR WAS MANUALLY TRIPPED DUE TO DECREASING STEAM GENERATOR LEVELS.	
ST. LOCIE 2	00/04/08	363		3892008002	44200	OFERATE	IVIAIN	THE REACTOR WAS MANUALLY TRIPPED FLOWING LOSS OF A CONDENSATE PUMP AND THE SUBSEQUENT LOSS OF A MAIN FEEDWATER PUMP. THE PUMP FAILED DUE TO MOTOR LEADS	
ST. LUCIE 2	06/07/08	389	2	3892008003	44276	OPERATE		OVERHEATING AND FAILING CAUSE BY UNDETECTED EPOXY RESIN INTRODUCED TO THE CABLES DURING MANUFACTURING. THE RX WAS MANUALLY TRIPPED ON A DEH LEAK ON THE NUMBER	
ST. LUCIE 2	06/15/06	389	2	3892006004	42647	OPERATE	MAN	ONE THROTTLE VALVE. THE RX WAS MANUALLY TRIPPED ON DECREASING SG WATER LEVEL FOLLOWING A PARTIAL LOSS OF FEED. THE CAUSE WAS PERSONNEL ERROR WHEN AN INCORRECT BREAKER CUBICAL DOOR WAS OPENED	
ST. LUCIE 2	08/11/05	389	2	3892005003	41911	OPERATE	MAN	AND A LOCKOUT RELAY SPURIOUSLY ACTUATED WHEN THE DOOR WAS CLOSED. THE RX WAS MANUALLY TRIPPED TO REMOVE A FAILING CONDENSATE PUMP FROM SERVICE. THE CAUSE WAS A FAILED	
ST. LUCIE 2	12/25/04	389	2	3892004004	41293	OPERATE	MAN	MOTOR LEAD TERMINATION TO THE FIELD CABLE RESULTING FROM INCORRECT ORIGINAL CONSTRUCTION. THE RX WAS MANUALLY TRIPPED ON LOW SG WATER LEVEL AFTER	
ST. LUCIE 2	12/27/04	389	2	3892004005	41297	OPERATE		THE ONLY OPERATING FEEDPUMP TRIPPED ON HIGH SG WATER LEVEL. THE CAUSE WAS FAILURE OF PERSONNEL TO CLOSE THE FEEDWATER REG VALVE BLOCK VALVES COMBINED WITH A FEEDWATER CONTROL SYSTEM MALFUNCTION.	
ST. LUCIE 2	04/01/03			3892003001				THE RX WAS MANUALLY TRIPPED ON DECREASING CONDENSER VACUUM. THE CAUSE WAS A CORROSION INDUCED THROUGH WALL HOLE IN THE STEAM JET AIR EJECTOR PIPING AND A DEGRADED "2A" HOGGER RESULTING FROM AN OUT OF CALIBRATION STEAM SUPPLY PRESSURE GAGE.	
ST. LUCIE 2	06/11/03							A TURBINE/RX TRIP OCCURRED ON HIGH SG WATER LEVEL FOLLOWING A FEEDWATER TRANSIENT. THE STEM OF THE LOW POWER FEEDWATER REGULATING VALVE SEPARATED FROM THE VALVE WHICH CAUSED THE VALVE TO CLOSE WHILE STILL HAVING AN OPEN INDICATION.	
ST. LUCIE 2	12/04/03			3892003004				THE RX WAS MANUALLY TRIPPED DUE TO A FAILING CONDENSATE PUMP BEARING. THE BEARING WAS HOT AND SMOKING. THE CAUSE WAS INADEQUATE LUBRICATION RESULTING FROM FAULTY PLANT PROCEDURES.	

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VIBRATION SIGNAL DURING MAINTENANCE ON THE TURBINE VIBRATION DRAWER. THE CAUSE WAS A GROUND ON THE MAIN									A DV/TUDDINE TRID OCCUPRED ON A CRUBICUS WOUNTERSTORE	
VIBRATION DRAWER. THE CAUSE WAS A GROUND ON THE MAIN									l '	
	SEQUOYAH 2	04/12/03	328	2	3282003005	39753	OPERATE			

						n humber		igon	
	. /				nt Repo	ation		Scram Cause Description	
PLANT NAME	EVENT	DATE	CKET RE	GION Licensee	Ever	t house ation	MODE	am am cause!	MOTES
PIL	ENE	1	Pet Pet	lice	FAE	JIN	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	gu ^e	, MO.
								THE RX WAS MANUALLY TRIPPED FOLLOWING A CONTROL ROD SYSTEM URGENT FAILURE ALARM DURING LOW POWER PHYSICS	
								TESTING. THE MOST LIKELY CAUSE WAS INTERMITTENT FAILURE OF	
SEQUOYAH 2	05/19/02	328	2	3282002002	38928	STARTUP		THE MULTIPLEXING RELAY IN THE ROD CONTROL SYSTEM. A TURBINE/RX TRIP OCCURRED ON AN ACTUATION OF THE MAIN	
								GENERATOR STATOR COOLING WATER FAILURE CIRCUIT. THE CAUSE WAS A RAW COOLING WATER ISOLATION VALVE FAILURE CAUSING	
SEQUOYAH 2	05/31/02	328	,	2282002002	20054	ODEDATE		LOW FLOW TO THE STATOR COOLING WATER SYSTEM HEAT EXCHANGER.	
SEQUUTARI 2	05/51/02	320		3282002003	36934	OPERATE		A RX TRIP OCCURRED ON RCP BUS UNDERVOLTAGE FOLLOWING THE	
								LOSS OF A START BUS WHEN THE ALTERNATE FEEDER BREAKER ATTEMPTED TO CLOSE WHILE BEING RACKED INTO THE CONNECT	
SEQUOYAH 2	07/12/02	328	2	3272002004	39056	OPFRATE		POSITION. THE CAUSE WAS FAILURE OF THE BREAKER TO FUNCTION PROPERLY.	A FEEDWATER ISOLATION OCCURRED AND AFW STARTED FOLLOWING THE RX TRIP.
SEQUOYAH 2	12/26/02			3282002004				A RX TRIP OCCURRED FOLLOWING A RCP TRIP. THE CAUSE WAS A GROUND ON THE RCP MOTOR WINDING.	
SEQUOTAIT 2	12/20/02	328		3282002004	39473	OFLINATE		A TURBINE TRIP/RX TRIP OCCURRED ON LOW SG WATER LEVEL. A	
								LOSS OF VITAL INSTRUMENT POWER CAUSED A FEEDWATER REGULATING VALVE TO SHUT, RESULTING IN A LOSS OF FEEDWATER	
SEQUOYAH 2	01/18/00	328	2	3282000001	36602	OPERATE		TO THE ASSOCIATED SG. THE CAUSE WAS A VITAL INVERTER CONTROL CIRCUIT FAILURE.	NO CHANGES.
								A TURBINE/RX TRIP OCCURRED DUE TO A SUDDEN PRESSURE RELAY	
								ACTUATION ON ONE PHASE OF THE MAIN TRANSFORMER. THE	
SEQUOYAH 2	11/17/00	328	2	3282000004	37530	OPERATE		CAUSE WAS A MAIN TRANSFORMER ELECTRICAL FAULT RESULTING FROM A FAILED 24 KV BUSHING.	
								THE REACTOR TRIPPED DUE TO LOSS OF CONDENSER VACUUM. THE LOSS OF CONDENSER VACUUM WAS CAUSED BY A MAIN	
SAN ONOFRE 2	09/13/09	361	4	3612009001	45347	OPERATE	AUTO	CIRCULATING WATER GATE VALVE FAILING AT 45% DURING A HEAT TREAT PROCESS.	
5/ IIV 5/V6/ NE 2	03/13/03	301		3012003001	13317	01 210 112		DURING STATOR WATER LOW FLOW TESTING, A TURBINE TRIP AND	
SAN ONOFRE 2	06/05/08	361	4	3612008004	44273	OPERATE	AUTO	SUBSEQUENT REACTOR TRIP OCCURRED DUE TO LOW COOLING FLOW TO THE MAIN GENERATOR RECTIFIER.	
								FAILURE OF AN INSTRUMENT AIR BRAZED JOINT RESULTED IN LOSS OF STEAM GENERATOR LEVEL CONTROL. THE REACTOR AND MAIN	
SAN ONOFRE 2	06/20/07	361	4	3612007001	43435	OPERATE		FEED PUMPS WERE MANUALLY TRIPPED BECAUSE OF EXCESS FEED FLOW TO THE STEAM GENERATORS.	
								A TURBINE/RX TRIP OCCURRED ON A MAIN GENERATOR TRIP AFTER THE AUXILIARY TRANSFORMER TRIPPED ON HIGH DIFFERENTIAL	
								CURRENT. THE MOST LIKELY CAUSE WAS AN INVALID SIGNAL	
SAN ONOFRE 2	02/03/05	361	4	3612005001	41368	OPERATE		INTRODUCED DURING DIFFERENTIAL RELAY TESTING, WHICH WAS IN PROGRESS.	
								THE RX WAS MANUALLY TRIPPED FOLLOWING THE LOSS OF BOTH	
								FEEDWATER PUMPS ON HIGH DISCHARGE PRESSURE WHEN A MAIN FEEDWATER REGULATING VALVE AND ASSOCIATED DISCHARGE	
SAN ONOFRE 2	04/10/04	361	Δ	3612004002	40664	OPERATE		VALVE BEGAN CLOSING. THE CAUSE WAS TWO CONCURRENT ELECTRICAL GROUNDS IN THE CONTROL SYSTEM.	
JAN SAOTHE Z	0-7/10/04	301		3012004002	70004	OI LIVAIL			
								A TURBINE/RX TRIP OCCURRED ON A MAIN GENERATOR TRIP. SEVERAL VANES OF THE ISOPHASE BUS DUCT DE-IONZING FILTERS	
SAN ONOFRE 2	11/19/04	361	4	3612004004	41209	OPERATE	AUTO	FAILED (METAL FATIGUE) AND SHORTED THE "A" PHASE TO GROUND.	

						nt Multication			
				///	aepo	r Mt on		AM Scram Cause I Description	
JAN	ne	PATE	/		Eventil	Otificatio	ODE	cause ID	
PLANT WAN	nk Event		SCHET RE	GION Licensee	Eve	A Hotification	MODE SCR	an Scram Co	NOTES
								A TURBINE/RX TRIP OCCURRED AFTER ACTUATION OF THE	
								GENERATOR LOSS OF FIELD RELAY. THE CAUSE WAS AN INCORRECT CONNECTION TO THE FIELD SUPPRESSION RELAY FOR THE MAIN	
SAN ONOFRE 2	02/01/03	361	4	3612003001	39553	OPERATE		GENERATOR DURING TESTING. A RX TRIP OCCURRED ON LOW SG PRESSURE WHEN TWO	
								ADDITIONAL STEAM DUMP VALVES UNEXPECTEDLY OPENED DURING	
								A STARTUP. THE CAUSE WAS IMPROPER ADJUSTMENT OF THE STEAM BYPASS CONTROL SYSTEM DYNAMIC RESPONSE MODULE DUE TO AN	
SAN ONOFRE 2	06/30/02	361	4	3612002003	39032	OPERATE		INADEQUATE PROCEDURE.	
								A RX TRIP OCCURRED ON LOW SG WATER LEVEL RESULTING FROM	
CAN ONOTRE 2	11/02/02	261		2642002006	20240	ODEDATE		THE MOMENTARY CLOSURE OF A MAIN FEEDWATER REGULATING	
SAN ONOFRE 2	11/02/02	361	4	3612002006	39340	OPERATE		VALVE WHEN A MAIN FEEDWATER CONTROLLER CARD FAILED. THE RX WAS MANUALLY TRIPPED ON DECREASING PRIMARY SYSTEM	
								PRESSURE WHEN THE PZR SPRAY VALVE FAILED TO 47% OPEN AND	
								MECHANICALLY BOUND. THE CAUSE HAS NOT YET BEEN DETERMINED BUT TESTING AND OBSERVATION SUGGEST INTERNAL	
SAN ONOFRE 2	11/04/02	361	4	3612002007	39343	OPERATE		BINDING.	
								THE RX WAS MANUALLY TRIPPED FOLLOWING INTAKE STRUCTURE	
SAN ONOFRE 3	06/04/04	362	4	3622004001	40791	OPERATE		SEAWEED FOULING WHILE CONDITIONS CONTINUED TO DEGRADE.	
								A TURBINE/RX TRIP OCCURRED ON A LOSS OF OFFSITE POWER WHEN	
								A BUS TRIPPED DURING SWITCHYARD MAINTENANCE AND TESTING. THE CAUSE WAS PERSONNEL ERROR WHEN A NON-UTILITY	
								TECHNICIAN PERFORMED WORK OUTSIDE THE AUTHORIZED	
SAN ONOFRE 3	02/27/02	362	4	3622002001	38730	OPERATE		CLEARANCE BOUNDARY. A RX TRIP OCCURRED DUE TO LOW RCP SPEED. THE CAUSE WAS A	
								FAULTED FEEDER BREAKER, WHICH STARTED A FIRE WHILE	
								SWITCHING OFFSITE POWER SOURCES. DURING THE SUBSEQUENT	
SAN ONOFRE 3	02/03/01	362	4	3622001001	37713	OPERATE		ELECTRIC PLANT SHIFT, THE RCP SUPPLY BUSES SLOW TRANSFERRED TO A UNIT 2 AUX TRANSFORMER.	
								FOLLOWING A LOSS OF OFFSITE POWER DUE TO A TORNADO	
SURRY 1	04/16/11	280	2		46761	OPFRATE		TOUCHING DOWN IN THE SWITCHYARD, UNIT ONE IS BEING SUPPLIED POWER FROM THE 1EDG AND THE SBO DIESEL.	
	0 1, 20, 22								
								THE REACTOR TRIPPED ON STEAM FLOW/FEED FLOW MISMATCH. THE EVENT WAS THE RESULT OF LOSS OF A VITAL 120VAC BUS. THE	
								BUS LOSS WAS CAUSED BY THE FAILURE OF A UPS INVERTER WHICH	
CURRY 4	06/00/10	200		2002040002	45000	ODEDATE		OCCURRED WHILE THE BUS'S ALTERNATE POWER SOURCE WAS OUT	
SURRY 1	06/08/10	280	2	2802010003	45986	OPERATE		OF SERVICE FOR MAINT. DURING POWER RAMP UP AT 37% POWER MAIN TURBINE	
								VIBRATIONS BECAME EXCESSIVE. WHILE DECREASING POWER FOR A	
SURRY 1	04/20/08	280	,	2802008001	44152	OPFRATE		RAPID LOAD REDUCTION, THE REACTOR WAS MANUALLY TRIPPED DUE TO HIGH SUSTAINED VIBRATIONS.	
	3-720/08			230200001	, ,,,,,,	J. LIVIIL		THE RX WAS MANUALLY SCRAMMED ON HIGH RCP SHAFT	
								VIBRATIONS ON "C" RCP FOLLOWED BY INCREASED LOWER RADIAL	
								BEARING TEMPERATURES. THE CAUSE WAS A SLOW LOSS OF OIL IN THE RCP MOTOR LOWER OIL RESERVOIR AND RESULTING LOWER	
SURRY 1	01/14/03	280	2	2802003001	39507	OPERATE	MAN	RADIAL BEARING FAILURE.	
								A RX TRIP OCCURRED ON LOW SG WATER LEVEL DURING POWER	
								ASCENSION WITH SG WATER LEVEL CONTROL IN MANUAL. THE	
SURRY 1	01/25/03	280	2	2802003002	39535	OPERATE	AUTO	CAUSE WAS INADEQUATE MODIFICATION OF THE FWRVS.	

SURRY 1 09/18/03 280 2 2802003004 40158 OPERATE MAN AND RAILY TRIPPED ON LOW SCHAFFE LEVEL FOLIOWING A LOSS OF THE UNIT 2 EHC SYSTEM. SURRY 1 10/24/00 280 2 2802000004 37453 OPERATE A LOT ON LOT THE LOT STEP ON LOW FLOW." C LOOP RCS FLOW WAS INDICATING 25% ON ALL THREE CHANNELS. THE LOW FLOW CONDITION WAS CAUSE THE CHANNELS. THE LOW FLOW CONDITION WAS CAUSE TO ALLY SEPARATING FROM ITS STEM AND DROPPING INTO THE SURRY 2 11/29/09 281 2 2812009001 45528 STARTUP MAN AND RAIN TRIBINGS AFFER TREEST RELEGATOR WAS MANUALLY TRIPPED WHEN A DISCREPTIVE WAS PERSONNEL FROM WHICH WORK INTERDED FOR THE UNIT 2 EHC SYSTEM. DURING STARTUP DOCUMEND ON LOW FLOW." C LOOP RCS FLOW WAS INDICATING 25% ON ALL THREE CHANNELS. THE LOW FLOW CONDITION WAS CAUSE THE LOVE FLOW PLOW CONDITION WAS CAUSE THE CLOP STOP DAILY STORE A SEEMBLY SEPARATING FROM ITS STEM AND DROPPING INTO THE SURRY 2 11/29/09 281 2 2812009001 45528 STARTUP MAN AND RAIN TRIPING SAFETY RELEGATOR WAS SMANUALLY TRIPPED WHEN A DISCREPTIVE WAS INDICATING 25% ON ALL THREE CHANNELS. THE LOW FLOW CONDITION WAS CAUSE THE CLOP STOP DAILY STORE A LOT OF STEMS. DURING STARTUP PHYSICS TESTING, THE REACTOR WAS MANUALLY TRIPPED WHEN A DISCREPTIVE WAS INDICATING 25% ON ALL THREE CHANNELS. THE LOW FLOW CONDITION WAS CAUSE STARTUP PHYSICS TESTING, THE REACTOR WAS MANUALLY TRIPPED WHEN A DISCREPTIVE WAS INDICATING 25% ON ALL THREE CHANNELS. THE LOW FLOW CONDITION WAS CAUSE STARTUP PHYSICS TESTING, THE REACTOR WAS MANUALLY TRIPPED WHEN A DISCREPTIVE WAS INDICATING 25% ON ALL THREE CHANNELS. THE LOW FLOW CONDITION WAS CAUSE STARTUP PHYSICS TESTING, THE REACTOR WAS MANUALLY TRIPPED WHEN A DISCREPTIVE WAS INDICATING 25% ON ALL THREE CHANNELS. THE LOY FLOW CONDITION WAS CAUSE STARTUP PHYSICS TESTING. THE REACTOR WAS MANUALLY TRIPPED WHEN A DISCREPTIVE WAS INDICATING 25% ON ALL THREE CHANNELS. THE LOY FLOW FLOW CONDITION WAS CAUSE STARTUP PHYSICS TESTING. THE REACTOR WAS MANUALLY TRIPPED WHEN A DISCREPTIVE WAS EVERLY TO THE PROPORT OF THE WAS AND THE PROPORT OF THE WAS AND THE PROPORT OF TH	
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REASONS. THE OPERATOR THEN MANUALLY SCRAMMED THE	
	!
SURRY 2 10/07/06 281 2 2812006002 42888 OPERATE MAN COMING FROM THE TURBINE BUILDING.	
A RX TRIP OCCURRED ON A MAIN GENERATOR DIFFERENTIAL LOCKOUT RELAY TRIP AFTER A MAIN GENERATOR OUTPUT LEAD	
COUPLING CAPACITOR VOLTAGE TRANSFORMER IN THE SWITCHYARD	
SURRY 2 05/21/04 281 2 2812004001 40769 OPERATE AUTO FAILED. THE CAUSE WAS AGE RELATED DEGRADATION.	
A RX TRIP OCCURRED ON A MAIN GENERATOR TRIP DUE TO A	
DIFFERENTIAL LOCKOUT. THE CAUSE WAS A SHORTED MAIN	
GENERATOR CURRENT TRANSFORMER LEAD RESULTING WHEN A	
SURRY 2 01/25/03 281 2 2812003001 39536 OPERATE AUTO CONDUIT FITTING SEPARATED FROM A JUNCTION BOX.	
THE RX WAS MANUALLY TRIPPED AFTER A LOSS OF POWER TO TWO	
BUSES WHICH SUPPLY POWER TO ALL EIGHT CIRCULATING WATER	
PUMPS FOR BOTH UNITS. THE LOSS OCCURRED DURING HIGH WINDS	
SURRY 2 09/18/03 281 2 2802003004 40168 OPERATE MAN AND RAIN ASSOCIATED WITH HURRICANE ISABEL.	
A RX TRIP OCCURRED ON LOW SG WATER LEVEL AFTER ALL FOUR TURBINE GOVERNOR VALVES CLOSED DURING TURBINE VALVE	1
TESTING. THE EVENT WAS CAUSED WHEN A TURBINE VALVE LIMITER	
FAILED TO ZERO DUE TO AN ELECTRICAL FAILURE IN THE	1
SURRY 2 11/23/02 281 2 2812002003 39401 OPERATE AUTO ELECTROHYDRAULIC CONTROL CABINET.	
THE REACTOR TRIPPED DUE TO A HUMAN ERROR WHILE	
PERFORMING SURVEILLANCE TESTING ON THE SOLID STATE SPURIOUS REACTOR TRIP DURING SS	SPS SLIRVEILLANCE
SOUTH TEXAS 1 08/20/10 498 4 4982010003 46191 OPERATE AUTO PROTECTION SYSTEM. TESTING. A RX TRIP OCCURRED ON HIGH SG WATER LEVEL FOLLOWING THE	JI J JOHV LILLAINGL
SOUTH TEXAS 1 01/23/04 498 4 4982004001 40473 OPERATE AUTO FAILURE OF A CLASS 1E 7.5 KV INVERTER.	SI 3 30 NV EILLANGE

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and	ķ /	ate			Event Repo	t humber unit	and the same of th	Scram Cause I Description	
PLANT MANN	EVENT	0, 00	CHET PER	icensee licensee	Ever	IT NO UNIT	MODE	Scram Ca	Motes
								THE RX WAS MANUALLY TRIPPED ON DECREASING DEAERATOR LEVEL	
								AFTER THE CONDENSATE POLISHING SERVICE VESSEL OUTLET VALVES AND THE SYSTEM BYPASS VALVE CLOSED, ISOLATING FLOW TO THE	
SOUTH TEXAS 1	03/01/03	498	4	4982003002	39629	OPERATE		DEAERATOR. THE CAUSE WAS A FAILED 24 VDC POWER SUPPLY. THE RX WAS MANUALLY TRIPPED DUE TO A LOSS OF OPEN LOOP	
								COOLING WHICH SUPPLIES AUXILIARY COOLING TO THE MAIN GENERATOR. A FOUR TO SIX INCH CRACK IN CIRCULATING WATER	
SOUTH TEXAS 1	11/16/02	498	4		39380	OPERATE	MAN	PUMP "11" WAS FOUND.	
								THE RX WAS MANUALLY TRIPPED AFTER ALL MAIN TURBINE GOVERNOR VALVES SHUT DURING PREPARATIONS FOR MONTHLY	
SOUTH TEXAS 1	12/16/00	498	4	4982000007	37608	OPERATE		TURBINE VALVE TESTING. THE CAUSE WAS A FAILURE OF A LOGIC CARD IN THE ANALOG ELECTRO-HYDRAULIC CONTROLLER.	
								THE STARTUP FEEDWATER PUMP BREAKER EXPLODED CAUSING AN UNDERVOLTAGE CONDITION ON THE 1H BUSES. THE REACTOR	
SOUTH TEXAS 2	11/03/10	499	4	4992010005	46387	OPERATE		TRIPPED ON A REACTOR COOLANT PUMP UNDERVOLTAGE CONDITION.	
	, ,							THE RX WAS MANUALLY TRIPPED FOLLOWING THE CLOSURE OF A	
								FEEDWATER ISOLATION VALVE DURING A PARTIAL STROKE SURVEILLANCE TEST OF THE VALVE. THE CAUSE WAS A SHORTED	
SOUTH TEXAS 2	06/14/02	499	4	4992002002	38991	OPERATE	_	SURGE SUPPRESSION DEVICE IN THE VALVES CONTROL CIRCUIT. A TURBINE/RX TRIP OCCURRED ON HIGH SG WATER LEVEL	
								FOLLOWING A LOSS OF POWER TO SG WATER LEVEL CONTROL SYSTEM. THE CAUSE WAS A VOLTAGE TRANSIENT RESULTING FROM A	
SOUTH TEXAS 2	07/07/02	499	4	4992002003	39045	OPERATE		FAILED BREAKER. THE RX WAS MANUALLY TRIPPED ON HIGH MAIN TURBINE	CHANGED DESCRPTION FIELD CAUSE SLIGHTLY PER REV. 1
								VIBRATION. A BLADE HAD CRACKED AND BROKEN OFF AND WAS EJECTED FROM THE LOW PRESSURE TURBINE INTO THE CONDENSER.	
SOUTH TEXAS 2	12/15/02	499	1	4992002004	30118	ODERATE		ADDITIONAL CRACKED BLADES WERE FOUND. THE CAUSE WAS A DESIGN FLAW WITH THE ROTOR TRAIN.	CONDENSER VACUUM WAS SECURED AND MSIV'S ISOLATED TO REDUCE MAIN TURBINE SPEED QUICKER.
JOOTH TEXAS 2	12/13/02	433		+332002004	33440	OFERATE		THE RX WAS MANUALLY TRIPPED FOLLOWING THE LOSS OF A RCP DURING AN ELECTRICAL BUS REALIGNMENT. SEVERAL BUSES WERE	ISOLATED TO REDUCE WAIN TORDING STEED QUICKER.
SOUTH TEXAS 2	02/07/01	499	4	4992001001	27726	ODEDATE		INADVERTENTLY DEENERGIZED BY OPERATOR ERROR DURING THE BUS REALIGNMENT.	
300TH TEXAS 2	02/07/01	433	4	4992001001	37720	OFLINATE		THE RX WAS MANUALLY TRIPPED DUE TO A FAILURE OF A	
								SWITCHYARD BREAKER AND SUBSEQUENT LOSS OF ALL OPERATING CIRC WATER PUMPS. THE BREAKER'S LINKAGE MECHANISM FAILED	
SOLITH TEVAS 2	02/01/01	400	4	4002001002	27704	ODEDATE		WHEN A CONNECTION PIN FELL OUT. A REQUIRED BUSHING WAS	
SOUTH TEXAS 2	03/01/01	499	4	4992001002	3//94	OFERATE		MISSING, PROBABLY SINCE FABRICATION.	
								A RX TRIP OCCURRED ON LOW SG WATER LEVEL WHEN A FEED WATER REGULATING VALVES DIGITAL CONTROL SYSTEM. THE	
COUTUITEVAC 2	05/00/04	400	4	4002004004	27075	ODEDATE		MAINTENANCE ON THE VALVES DIGITAL CONTROL SYSTEM. THE CAUSE WAS A TEST EQUIPMENT INDUCED GROUND PATH RESULTING	
SOUTH TEXAS 2	05/08/01	499	4	4992001004	3/9/5	OPEKATE		FROM AN INADEQUATE WORK CONTROL PROCESS. THE REACTOR TRIPPED FROM 100% POWER DURING TESTING ON THE	
TUDES AN SIGNA	44 /02 /25	200		200200000	420==	00554=5		FOLLOWING A TURBINE TRIP DUE TO AN INVALID LOW CONDENSER	
THREE MILE ISL 1	11/02/06	289	1	2892006002	42957	OPERATÉ	AUTO	VACUUM SIGNAL.	

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PLANT MAN	EVENT	700	CHET	GION Licensee	Ever	t hotification	MODE	Scram Co	MOTES
								A GRID DISTURBANCE RESULTED IN THE REACTOR PROTECTION	
								SYSTEM AUTOMATICALLY TRIPPING THE REACTOR. THE POWER	
								DISTURBANCE AFFECTED THE POWER TO THE REACTOR COOLANT	
THREE MILE ISL 1	12/13/06	289	1	2892006003	43050	OPERATE		PUMPS RESULTING IN THE REACTOR COOLANT PUMP POWER MONITORS ACTUATING A REACTOR TRIP.	
								THE REACTOR WAS MANUALLY TRIPPED FOLLOWING A RAPID POWER	
TURKEY BOINT 2	02/05/44	250	2		46660	0050475		REDUCTION DUE TO SODIUM LEVELS IN THE STEAM GENERATORS	
TURKEY POINT 3	03/06/11	250			46660	OPERATE	MAN	EXCEEDING THEIR LIMITS. THE REACTOR TRIPPED DUE TO INADVERTENT ENERGIZATION OF THE	
								GENERATOR TRIP. THE GENERATOR TRIP WAS CAUSED BY AN	
								EXTERNAL ELECTRICAL FLASHOVER ON THE HIGH SIDE OF THE	
TURKEY POINT 3	09/23/10	250	2	2502010003	46274	OPERATE	AUTO	GENERATOR STEP UP TRANSFORMER.	
								WITH ONE CIRC WATER PUMP OUT FOR MAINTENANCE, ANOTHER	
								CIRC WATER PUMP DEVELOPED AN OVERHEATED PACKING GLAND.	
TUDKEY POINT 2	11/15/10	250	2	2502040000	46410	ODEDATE	N A A A I	WITH ONLY TWO CIRC WATER PUMPS OPERABLE, THE OPERATORS	
TURKEY POINT 3	11/15/10	250		2502010006	46419	OPERATE		MANUALLY TRIPPED THE REACTOR. A MOMENTARY POWER FLUCTUATION CAUSED BY GRID INSTABILITY	
TURKEY POINT 3	02/26/08	250	2	2502008001	44009	OPERATE		CAUSED THE REACTOR TO TRIP.	
								THE RX WAS MANUALLY TRIPPED ON DECREASING SG WATER LEVEL.	
								LEVEL WAS RESTORED USING AUXILIARY AND MAIN FEED. THE ROOT CAUSE WAS POOR WORK INSTRUCTIONS, WHICH ALOWED THE	
								FEEDWATER FLOW CONTROL VALVE POSITIONER TO BE INSTALLED	
TURKEY POINT 3	10/15/05	250	2	2502005005	42056	OPERATE	MAN	WITH SOME LOOSENESS.	
								THE RX WAS MANUALLY TRIPPED WHEN A FIRE BROKE OUT NEAR	
								THE NUMBER TWO BEARING HOUSING ON THE HIGH PRESSURE TURBINE AND LASTED ABOUT FOUR MINUTES. THE CAUSE WAS A	
								SEAL OIL LEAK RESULTING FROM POOR WORKMANSHIP DURING A	
TURKEY POINT 3	12/14/04	250	2	2502004006	41257	OPERATE	MAN	TURBINE SEAL OVERHAUL.	
								THE RX WAS MANUALLY TRIPPED WHEN TURBINE PLANT COOLING	
								WATER LEAKAGE EXCEEDED THE MAKEUP CAPABILITY OF THE SURGE	
TURKEY POINT 3	12/28/04	250	2	2502004007		OPERATE	MAN	TANK. THE CAUSE WAS A FAILED GASKET.	
								THE RX WAS MANUALLY TRIPPED WHEN A ROD DROPPED DURING	
								LOW POWER PHYSICS TESTING. THE CAUSE WAS INTERMITTENT CONTACT IN A PIN IN THE CRDM COIL STACK CONNECTOR	
								ASSOCIATED WITH ROD E-11. THIS IS THE FIRST OF TWO SIMILAR	
TURKEY POINT 3	11/29/04	250	2	2502004004	41225	STARTUP	MAN	EVENTS.	
								THE RX WAS MANUALLY TRIPPED WHEN A ROD DROPPED DURING LOW POWER PHYSICS TESTING. THE CAUSE WAS INTERMITTENT	
								CONTACT IN A PIN IN THE CRDM COIL STACK CONNECTOR	
								ASSOCIATED WITH ROD E-11. THIS IS THE SECOND OF TWO SIMILAR	
TURKEY POINT 3	11/30/04	250	2	2502004004	41232	STARTUP	MAN	EVENTS. THE DY WAS MANUALLY TRIPDED ON LOW SC WATER LEVEL	
								THE RX WAS MANUALLY TRIPPED ON LOW SG WATER LEVEL FOLLOWING A LOSS OF INSTRUMENT AIR WHICH CAUSED THE AIR	
								OPERATED MAIN FEEDWATER REGULATING VALVES TO DRIFT	
T. I.D. (2) (2) (2)	0: 1==:		=	0500000		00== :==		CLOSED. ONE COMPRESSOR WAS OUT OF SERVICE WHEN THE	luo suunoss asa seur
TURKEY POINT 3	01/27/03	250	2	2502003002	39538	OPERATE	MAN	MOTOR SEIZED ON THE OPERATING COMPRESSOR. THE RX WAS MANUALLY TRIPPED ON A LOSS OF CONDENSER	NO CHANGES PER REV 1.
								VACUUM DURING A LOAD REDUCTION. THE CAUSE WAS	
								INADEQUATELY DESIGNED LINES FOR THE CONTROL ROOM	
TUDKEY BOINT 3	00/45/01	350	_	2502004000	20200	ODED ATE	D 4 4 5 1	CONDENSER VACUUM INSTRUMENTATION AND THE TURBINE LOW	
TURKEY POINT 3	08/15/01	250	2	2502001003	38209	OPERATE	IVIAN	VACUUM ALARM.	

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PLANT HAN	ne Event	DATE	SCHET RE	SION Licensee	Eve	nt Motification	MODE	Scram Cause Description	NOTES
								THE REACTOR WAS MANUALLY TRIPPED ON HIGH STEAM	
								GENERATOR LEVEL FOLLOWING A TURBINE RUNBACK. THE TURBINE RUNBACK WAS MANUALLY INITIATED BY STOPPING A STEAM	
TURKEY POINT 4	01/11/10	251	2	2512010002	45619	OPERATE	MAN	GENERATOR FEED PUMP DUE TO MECHANICAL SEAL FAILURE. THE REACTOR TRIPPED DURING THE REPAIR OF A FAILED TURBINE	
								STOP VALVE RELAY. DURING THE REPLACEMENT OF THE RELAY, THE RPS LOGIC WAS MET CAUSING A REACTOR TRIP AND A TURBINE TRIP.	
								THE ROOT CAUSE OF THE TRIP WAS DEFICIENCIES IN THE WORK	
TURKEY POINT 4	09/08/10	251	2	2512010004	46235	OPERATE	AUTO	THE REACTOR TRIPPED FROM 100% POWER DURING TESTING. THE	
								CAUSE OF THE TRIP WAS A SPURIOUS PRESSURIZER PRESSURE TRIP SIGNAL WHEN THE OTHER CHANNEL WAS ALREADY TRIPPED FOR	
TURKEY POINT 4	09/21/10	251	2	2512010006	46265	OPERATE			THE REACTOR TRIPPED SPURIOUSLY DURING TESTING.
								WITH THE REACTOR AT 100% POWER, A SHUTDOWN WAS	
								COMMENCED DUE TO INDICATION OF A CONDENSER TUBE LEAK. THE	
TURKEY POINT 4	12/09/10	251	2	2512010008	46471	OPERATE	MAN	REACTOR WAS MANUALLY TRIPPED AT 18% POWER DUE TO INCREASING S/G SODIUM LEVELS, CAUSED BY THE TUBE LEAK.	
TURKEY BOINT 4	02/26/00	251	,	2502008001	44000	ODEDATE	ALITO	A MOMENTARY POWER FLUCTUATION CAUSED BY GRID INSTABILITY	
TURKEY POINT 4	02/26/08	251	2	2502008001	44009	OPERATE		CAUSED THE REACTOR TO TRIP. DURING STARTUP, THE REACTOR WAS MANUALLY TRIPPED WHEN SG	
								LEVEL BEGAN RISING UNCONTROLLABLY. THE CAUSE OF THE HIGH SG LEVEL WAS INSUFFICIENT GUIDANCE ON MAIN GENERATOR LOADING	
								AND STABILIZING POWER WHILE SWITCHING TO AUTO FWRV	
TURKEY POINT 4	02/29/08	251	2	2512008001	44016	STARTUP	MAN	CONTROL. THE RX WAS MANUALLY TRIPPED ON DECREASING SG WATER LEVEL	
TURKEY BOINT 4	02/22/25	254		2542005004	44544	ODEDATE		AFTER A FEED PUMP TRIPPED. THE CAUSE WAS A FEEDWATER PUMP	
TURKEY POINT 4	03/22/05	251	2	2512005001	41511	OPERATE	MAN	MOTOR ELECTRICAL FAULT.	
								A TURBINE/RX TRIP OCCURRED DUE TO A FIRE IN THE MAIN TRANSFORMER. THE CAUSE WAS A SUDDEN INTERNAL FAULT ON THE	
								"B" PHASE HIGH SIDE WINDING OF THE MAIN TRANSFORMER	
TURKEY POINT 4	06/27/05	251	2	2512005002	41800	OPERATE	AUTO	RESULTING FROM AN INADEQUATELY MANUFACTURED PART.	
								A RX SCRAM OCCURRED ON LOW SG WATER LEVEL FOLLOWING A	
								FEED REGULATING VALVE CLOSURE. THE CAUSE WAS A CAPACITOR FAILURE IN THE FEEDWATER FLOW CONTROLLER WHICH CAUSED THE	
TURKEY POINT 4	05/14/04	251	2	2512004002	40752	OPERATE	AUTO	FEED REGULATING VALVE TO CLOSE.	
								THE RX WAS MANUALLY SCRAMMED ON DECREASING MAIN CONDENSER VACUUM. THE CAUSE WAS FAILURE OF A TURBINE SLOP	
TURKEY POINT 4	12/25/04	251	2	2512004004	/1292	OPERATE		DRAIN LINE INSIDE THE CONDENSER. THE CONDENSER CONTINUED TO FUNCTION AS A HEAT SINK.	
TOTALL TOTAL 4	12/23/04	231		2312004004	71232	JOI LIVATE		THE RX WAS MANUALLY TRIPPED DUE TO TWO DROPPED RODS IN	
								DIFFERENT BANKS. THE CAUSE OF THE FIRST DROPPED ROD WAS AN OPEN GRIPPER CIRCUIT, THE CAUSE OF THE SECOND DROPPED ROD	
TUDI(E)(2011 -	04/0=/5		_	254222425	2766	0055175		WAS HUMAN ERROR DURING TROUBLESHOOTING OF THE FIRST	
TURKEY POINT 4	01/25/01	251	2	2512001001	37691	OPERATE	MAN	DROPPED ROD.	
								THE RX WAS MANUALLY TRIPPED DUE TO FEEDWATER OSCILLATIONS. THE CAUSE WAS A FEEDWATER REGULATING VALVE	
								FAILURE. BECAUSE OF INADEQUATE MAINTENANCE, THE VALVE	
TURKEY POINT 4	01/24/00	251	2	2512000001	36618	OPERATE	MAN	CAGE HAD DISENGAGED FROM THE VALVE BODY WEB.	

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PLANT HAME	EVENT	DAI	CHET RE	310M licensee	En Fried	t Motification	anoth sch	ANN Section Cause Description	Notes
								THE REACTOR TRIPPED FOLLOWING A TURBINE TRIP. THE CAUSE OF	
								THE TURBINE TRIP WAS A MAIN GENERATOR STATOR GROUND. THE CAUSE OF THE STATOR GROUND WAS FAILURE OF THE "B" PHASE OF	
SUMMER	10/02/09	395	2	3952009002	45404	OPERATE	AUTO	THE MAIN GENERATOR OUTPUT BREAKER.	
								AT REDUCED POWER FOR MAINTENANCE, THE TURBINE WAS MANUALLY TRIPPED DUE TO HIGH VIBRATIONS. THE STEAM DUMP	
								SYSTEM FAILED TO OPERATE. THIS REQUIRED THE OPERATORS TO	
SUMMER	12/16/09	395	2	3952009004	15577	ODERATE		MANUALLY TRIP THE REACTOR. THE CAUSE OF THE STEAM DUMP FAILURE WAS A FAILED CIRCUIT CARD.	
SOWIMEN	12/10/09	393		3932009004	43377	OFLINATE		THE REACTOR WAS MANUALLY TRIPPED DUE TO RAPIDLY	
								DECREASING LEVEL IN THE "C" STEAM GENERATOR CAUSED BY	
SUMMER	01/24/08	395	2	3952008001	43932	OPERATE		FAILURE OF THE "C" FEEDWATER FLOW CONTROL VALVE POSITIONER PILOT VALVE.	
								WHEN STARTING THE D FEEDWATER BOOSTER PUMP, A STEAM LEAK	
								DEVELOPED REQUIRING A MANUAL REACTOR SCRAM. THE LEAK WAS FROM AN ORIFICE IN THE D FEEDWATER BOOSTER PUMP	
SUMMER	02/05/07	395	2	3952007001	43141	OPERATE	MAN	RECIRCULATION HEADER.	
								A TURBINE/RX TRIP OCCURRED ON A LOSS OF FEED FOLLOWING A	
								FIRE IN ONE CONDENSATE PUMP AND A DISCHARGE VALVE PROBLEM	
								WITH THE OTHER THAT CAUSED A DEAERATOR STORAGE TANK LOW LEVEL. THE FIRE WAS CAUSED BY A PHASE TO GROUND SHORT IN THE	
SUMMER	08/25/05	395	2	3952005003	41946	OPERATE	AUTO	MOTOR WINDINGS.	
								A RX TRIP OCCURRED ON LOW SG WATER LEVEL WHEN A FEEDWATER REGULATING VALVE FAILED CLOSED DURING A	
								CONTROLLED SHUTDOWN. THE CAUSE WAS SERVICE INDUCED	
SUMMER	03/30/04	395	2	3952004001	40628	OPERATE		FRETTING ON THE POSITIONER PILOT VALVE STEM. A TURBINE/RX TRIP OCCURRED ON OVER TEMPERATURE DELTA	
								TEMPERATURE AFTER THE MAIN GENERATOR OUTPUT BREAKER	
								OPENED. THE CAUSE WAS THE MAIN GENERATOR FIELD BREAKER POSITION SENSING CIRCUIT HAD DEGRADED CONTACTS RESULTING	
SUMMER	05/12/03	395	2	3952003002	39838	OPERATE		FROM VIBRATION INDUCED WEAR.	
								A DV TDID OCCUPDED ON A COURCE (INTERNATIONAL DIATE DANCE EVENTS	
								A RX TRIP OCCURRED ON A SOURCE/INTERMEDIATE RANGE EXCORE NEUTRON FLUX DETECTOR CHANNEL SPIKE. THE CAUSE WAS	
CUD 40 45 D	05/04/02	205	_	2052002002	20050	CTARTUR		EXCESSIVE NOISE IN THE INSTRUMENT CHANNEL PREAMPLIFIER	
SUMMER	06/01/02	395	2	3952002003	38958	STARTUP		WHICH WAS CAUSED BY A FAULTY HIGH VOLTAGE POWER SUPPLY. A RX TRIP OCCURRED ON LOW SG WATER LEVEL FOLLOWING A MAIN	
								FEEDWATER PUMP TRIP. THE PUMP TRIP RESULTED FROM A BLOWN	
								FUSE IN THE DIGITAL SPEED CONTROL SYSTEM. THE RX TRIP RESULTED FROM A DESIGN DEFICIENCY IN THE DIGITAL SPEED	
SUMMER	06/17/02	395	2	3952002004	39000	OPERATE		CONTROL SYSTEM.	
								THE RX WAS MANUALLY TRIPPED WHEN TWO SHUTDOWN CONTROL	
								RODS REMAINED FULLY INSERTED WHILE INITIATING CONTROL ROD	
								WITHDRAWAL. THE CAUSE WAS ROD INSERTION BELOW ZERO STEPS IN CONJUNCTION WITH GEOMETRIC FACTORS WHICH RENDERED THE	
SUMMER	03/01/01	395	2	3952001003	37791	STARTUP		GRIPPERS UNABLE TO ENGAGE.	
								THE REACTOR TRIPPED FOLLOWING A GENERATOR LOCKOUT. THE	THE REACTOR TRIPPED ON A GENERATOR LOCKOUT DUE TO DIFFERENTIAL CURRENT BETWEEN TWO CURRENT
								CAUSE OF THE LOCKOUT WAS IMPROPER RATIO SETTINGS ON A	TRANSFORMERS. THE NEWLY INSTALLED SWITCHYARD CT
VERMONT YANKEE	05/26/10	271	1	2712010001	45957	OPERATE	AUTO	NEWLY INSTALLED SWITCHYARD CURRENT TRANSFORMER.	HAD IMPROPER RATIO SETTINGS.

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PLA	ENE	\ \do	PAE.	jice.	fric.	JINI	450	ςς ^{το}	NOTES .
								DURING SURVEILLANCE TESTING OF THE TURBINE STOP VALVE, THE	
								VALVE CLOSED AND WOULD NOT OPEN. THE VALVE WAS OPENED WITH MECHANICAL ASSISTANCE. HOWEVER, A STOP VALVE CLOSURE	
VERMONT YANKEE	08/30/07	271	1	2712007003	43610	OPERATE		SIGNAL WAS GENERATED, WHICH TRIPPED THE REACTOR.	
								A SCRAM OCCURRED ON A LOAD REJECT GENERATOR TRIP	
								FOLLOWING A CATASTROPHIC FAILURE IN THE 345 KV SWITCHYARD.	
VERMONT YANKEE	07/25/05	271	1	2712005001	41868	OPERATE		THE CAUSE WAS A FAILED INSULATOR RESULTING IN FAILURE OF A MOTOR OPERATED 345 KV DISCONNECT SWITCH.	
VERNIGHT IZHTEE	07723703			2712000001	12000	01 210 112	7.0.0	THE STATE OF THE S	
								A RX SCRAM/GENERATOR TRIP OCCURRED AS A RESULT OF AN ISO- PHASE BUS DUCT TWO-PHASE ELECTRICAL FAULT AND RESULTING	
								FIRE. THE CAUSE WAS INADEQUATE PREVENTATIVE MAINTENANCE	
								ON PORTIONS OF THE ISO-PHASE BUS AND FAILURE TO MONITOR	
VERMONT YANKEE	06/18/04	271	1	2712004003	40827	OPERATE		AGE RELATED DEGRADATI A RX SCRAM OCCURRED DURING TESTING WHEN A BACKUP SCRAM	
								VALVE ACTUATED. THE CAUSE WAS A TRAIN B RPS AUX CONTACT	
								WHICH FAILED IN THE TRIPPED POSITION, RESULTING IN AN	
VERMONT YANKEE	03/19/01	271	1	2712001001	37850	OPERATE		INVISIBLE HALF SCRAM. TESTING OF THE A TRAIN COMPLETED THE BACKUP SCRAM VALVE LOGIC.	
	, ,								
								THE RX WAS MANUALLY SCRAMMED ON A LOSS OF CONDENSER VACUUM. AN ELECTRICAL SHORT OCCURED WHILE CHANGING AN AIR	
								EJECTOR STEAM SUPPLY VALVE INDICATION LIGHT BULB, WHICH	
	4 4							CAUSED THE VALVE TO SHUT. THE USE OF AN INCORRECT BULB	
VERMONT YANKEE	09/13/00	271	1	2712000004	37317	OPERATE	MAN	EXTRACTION TOOL CAUSED THE SHORT. THE REACTOR TRIPPED FOLLOWING A TURBINE TRIP. THE CAUSE OF	
								THE TURBINE TRIP WAS AN INTERMITTENT FAILURE OF A CIRCUIT	
WATTS BAR 1	05/21/10	390	2	3902010001	45944	OPERATE	_	CARD IN THE TURBINE CONTROL SYSTEM.	
								THE REACTOR WAS MANUALLY TRIPPED WHEN COOLING WAS LOST TO THE A-PHASE MAIN BANK TRANSFORMER. THE CAUSE OF THE	
								LOSS OF COOLING WAS THE FAILURE OF THE CONTROL POWER	
WATTS BAR 1	11/14/10	390	2		16/18	OPERATE	ΜΔΝ	TRANSFORMER THAT SUPPLIES THE MAIN BANK TRANSFORMER COOLING SYSTEM.	
W/XIII3 B/XIX I	11/14/10	330			40410	OT LIVITE	1417 (14	COOLING STSTEINI.	
								WHILE REDUCING POWER FOR SHUTDOWN, THE PLANT WAS	
WATTS BAR 1	08/07/08	390	2	3902008002	44388	OPERATE		MANUALLY SCRAMMED WHEN THE FEEDWATER SYSTEM ISOLATED DUE TO HIGH LEVELS IN THE LOW PRESSURE HEATER STRINGS.	
								THE REACTOR TRIPPED FOLLOWING A TURBINE TRIP. THE TURBINE TRIPPED DUE TO A PERSONNEL ERROR, WHICH CAUSED THE MAIN	
WATTS BAR 1	09/20/08	390	2	3902008004	44506	OPERATE		GENERATOR EXCITER FIELD BREAKER TO TRIP.	
								THE RX WAS MANUALLY TRIPPED ON HIGH MAIN TURBINE VIBRATION. THIS EVENT WAS CAUSED BY A FRACTURED TURBINE	
WATTS BAR 1	05/30/06	390	2	3902006004	42610	OPERATE		BLADE ON THE LOW-PRESSURE TURBINE.	
								THE REACTOR SCRAMMED FOLLOWING A TRIP OF THE MAIN	
WATTS BAR 1	07/31/06	390	2	3902006005	42744	OPERATE		GENERATOR. THE CAUSE OF THE GENERATOR TRIP WAS A FAULT IN THE AUTOMATIC EXCITATION CONTROL CIRCUITRY.	
	,, 55			111111					
								A TURBINE/RX TRIP OCCURRED ON AN INVALID TRIP SIGNAL WHILE PERSONNEL WERE TESTING THE "B" TRAIN RX TRIP BREAKER. THE	
								CAUSE WAS A MULTIMETER INADVERTENTLY CONNECTED IN THE	
WATTS BAR 1	01/16/04	390	2	3902004001	40454	OPERATE	AUTO	OHMS POSITION WHICH ENERGIZED THE TURBINE TRIP BUS.	

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PLAM	EVEN	\ \s	SCHET RE	310M Licensee	Eve	INIT UNIT	·/ 50	Sciam Co	, NO	
								THE RX WAS MANUALLY TRIPPED IN RESPONSE TO FOUR DROPPED		
WATTS BAR 1	09/19/04	390	2	3902004002	41054	OPERATE	ΜΔΝ	RODS IN CONTROL BANK "B". THE CAUSE WAS A FAILED ROD CONTROL POWER CABINET CIRCUIT.		
WWW.	03/13/01	330		3302001002	11051	OT LIVATE	1777 (17	A TURBINE/RX TRIP OCCURRED ON A GENERATOR BACKUP RELAY		
								ACTUATION AFTER A GROUND FAULT RESULTING FROM A BROKEN O-		
								RING IN THE "C" PHASE MAIN TRANSFORMER'S HIGH SIDE BUSHING CAPACITANCE TAP CONNECTOR. THE CAUSE WAS AN INADEQUATE		
WATTS BAR 1	03/10/03	390	2	3902003001	39651	OPERATE	AUTO	MAINTENANCE PROCEDURE.		
								A TURBINE/RX TRIP OCCURRED FOLLOWING ACTUATION OF THE SUDDEN PRESSURE RELAY FOR THE THE MAIN TRANSFORMER. THE		
								CAUSE WAS A WORKER BUMPING INTO THE BOX THAT HOUSES THE		
WATTS BAR 1	08/25/03	390	2	3902003003	40100	OPERATE	AUTO	RELAYS IN THE SWITCHYARD.		
								A TURBINE/RX TRIP OCCURRED FOLLOWING THE ACTUATION OF A		
								MAIN TRANSFORMER DIFFERENTIAL ELECTRICAL RELAY. THE CAUSE		
								WAS INADEQUATE WORK INSTRUCTION RESULTING IN A DEFICIENT CABLE SPLICE WHICH SUBSEQUENTLY SHORTED TO GROUND AND		
WATTS BAR 1	07/13/02	390	2	3902002003	39058	OPERATE	AUTO	ACTUATED THE DIFFERENTIAL REL		
								THE RX WAS MANUALLY TRIPPED ON INCREASING CONDENSER		
								PRESSURE RESULTING FROM REDUCED CONDENSER CIRCULATING WATER FLOW. THE CAUSE WAS COOLING TOWER FILL MATERIAL		
								OBSTRUCTING THE CONDENSER CIRCULATING WATER PUMP		
WATTS BAR 1	06/29/01	390	2	3902001001	38107	OPERATE	MAN	SUCTION SCREENS.		
								THE RX WAS MANUALLY SCRAMMED ON DECREASING SG WATER		
								LEVEL FOLLOWING THE CLOSURE OF A FEEDWATER REGULATING		
WATTS BAR 1	09/04/01	390	2	3902001002	38263	OPERATE	MAN	VALVE. THE CAUSE WAS THE LOSS OF A VITAL AC INVERTER WHEN A SENSING/CURRENT LIMITING CARD FAILED.		
								A TURBINE/RX TRIP OCCURRED ON AN INVALID AMSAC SIGNAL DURING CLEARANCE ACTIVITIES ASSOCIATED WITH A PLANT DESIGN		
								CHANGE FOR THE TDAFW PUMP CONTROL INSTRUMENTATION. THE		
NAVATTE DAD 1	12/10/01	200		2002001004	20506	ODEDATE	ALITO	CAUSE WAS INADEQUATE INTERFACE REQUIREMENTS IN THE		
WATTS BAR 1	12/19/01	390	2	3902001004	38586	OPERATE	AUTO	PLANNING AND SCHEDULING OF WORK.		
								THE REACTOR TRIPPED ON LOW STEAM GENERATOR LEVEL		
WOLF CREEK	03/02/10	482	1	/822010005	/573 <u>0</u>	OPERATE	ALITO	FOLLOWING THE LOSS OF A MAIN FEEDWATER PUMP. THE PUMP FAILED DUE TO LOSS A 120V NON-SAFETY INSTRUMENT INVERTER.		
WOLF CHEEK	03/02/10	402		+022010003	43733	OT LIVATE	7.010	DURING STARTUP, A MAIN FEEDWATER PUMP TRIPPED. THE		
								OPERATOR MANUALLY TRIPPED THE REACTOR. THE CAUSE OF THE		
WOLF CREEK	03/08/10	482	4	4822010006	45749	OPERATE	MAN	FEEDWATER PUMP TRIP WAS A FAILED SERVO IN THE MFW CONTROL CIRCUITRY.		
								THE REACTOR TRIPPED ON LOW STEAM GENERATOR DURING PLANT		
								STARTUP. A HIGH STEAM GENERATOR LEVEL INITIATED A FEEDWATER ISOLATION, WHICH RESULTED IN LOW STEAM		
WOLF CREEK	10/17/10	482	. 4	4822010012	46338	OPERATE	AUTO	GENERATOR LEVEL.		
								THE REACTOR TRIPPED AS A RESULT OF LOW STEAM GENERATOR		
								LEVEL CAUSED BY A MAIN FEED REGULATING VALVE CLOSURE. THE VALVE CLOSURE WAS CAUSED BY BLOWN FUSES IN THE FRV		
WOLF CREEK	04/28/09	482	4	4822009001	45027	OPERATE	AUTO	CONTROLLERS.		
								THE REACTOR TRIPPED FOLLOWING A TURBINE TRIP AND		
								MOMENTARY LOSS OF OFFSITE POWER. THE CAUSE OF THE TRIP WAS		
WOLF CREEK	08/19/09	482	4	4822009002	45278	OPERATE	AUTO	LOSS OF OFFSITE POWER DUE TO A LIGHTNING STRIKE.		

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PLAM	EVEN	\Q	CHET RE	310M licensee	Ene	JIMIT JIMIT	MC SCR	Scran	MOTES
								THE REACTOR WAS MANUALLY TRIPPED ON LOWERING S/G LEVEL	
								CAUSED BY LOSS OF THE B MFW PUMP. THE MFW PUMP WAS LOST	
WOLF CREEK	03/17/08	482	4	4822008003	44072	OPERATE		FOLLOWING LOSS OF THE B NON-VITAL 4160V BUSES DUE TO TRANSFORMER FAILURE DURING MAINTENANCE.	
								A RX TRIP OCCURRED ON LOW SG WATER LEVEL AFTER A MAIN	
								FEEDWATER REGULATING VALVE FAILED CLOSED. THE CAUSE WAS	
WOLF CREEK	02/13/04	482	4	4822004002		OPERATE		SEPARATION OF THE VALVE PLUG FROM THE STEM. A RX TRIP OCCURRED DURING TESTING OF THE "B" TRAIN SOLID	
								STATE PROTECTION SYSTEM. THE TECHNICIANS MISSED A	
WOLF CREEK	08/22/04	482	4	4822004004	40974	OPERATE	AUTO	PROCEDURE STEP CAUSING THE TRIP.	
								A TURBINE/RX TRIP OCCURRED ON A SPURIOUS MAIN TURBINE HIGH	
WOLF CREEK	10/07/04	482	4	4822004005	41100	OPERATE	AUTO	VIBRATION SIGNAL RESULTING FROM A LIGHTNING STRIKE.	
								A RX TRIP OCCURRED ON LOSS OF POWER AFTER THE OPERATING	
								CRD MG SETS OUTPUT BREAKER OPENED WHILE THE OTHER CRD MG	
WOLF CREEK	01/03/03	482	4	4822003001	39487	OPERATE		SET WAS BEING PLACED BACK INTO SERVICE FOLLOWING MAINTENANCE. THE CAUSE WAS PERSONNEL ERROR.	
WOLF CHEEK	01/03/03	102		1022003001	33 107	01 210 112		A RX TRIP OCCURRED ON LOW SG WATER LEVEL FOLLOWING THE	
								CLOSURE OF A FEEDWATER ISOLATION VALVE. THE CAUSE WAS A	
WOLF CREEK	08/18/03	482	4	4822003003	40086	OPERATE		SPURIOUS SIGNAL FROM THE ENGINEERED SAFETY FEATURES ACTUATION SYSTEM FOR THE "B" SG.	
								A RX TRIP OCCURRED ON LOW SG WATER LEVEL WHEN A	
								FEEDWATER REGULATING VALVE FAILED CLOSED AFTER BEING PLACED IN MANUAL FOR TESTING. THE CAUSE WAS THE FAILURE OF	
								A MANUAL CONTROLLER CARD FOR THE FEEDWATER REGULATING	
WOLF CREEK	05/08/02	482	4	4822002003	38906	OPERATE		VALVE. A RX TRIP OCCURRED WHEN TWO RCPS TRIPPED DURING AN	
								AUXILIARY TRANSFORMER FIRE. THE FIRE STARTED WHEN A	
WOLF CREEK	09/04/00	482	4	4822000003	37287	OPERATE	AUTO	SQUIRREL ENTERED THE TRANSFORMER.	
								THE REACTOR WAS MANUALLY TRIPPED WHEN A RELIEF VALVE ON	
								THE MOISTURE SEPARATOR HEATER INADVERTENTLY OPENED AND	
								WOULD NOT RECLOSE. THE REACTOR WAS TRIPPED PRIOR TO REACHING THE CONDENSER	
WATERFORD 3	10/19/09	382	4	3822009005	45445	OPERATE		HOTWELL.	
								THE RX WAS MANUALLY TRIPPED ON LOWERING MAIN CONDENSER	
								VACUUM CAUSED BY A LOSS OF ALL CIRC WATER PUMPS. THE CAUSE WAS A DEGRADED TIMER RELAY IN THE CIRC WATER PUMP	
WATERFORD 3	11/11/05	382	4	3822005005	42138	OPERATE		DISCHARGE VALVE CONTROL CIRCUIT.	
								A RX TRIP OCCURRED DURING TURBINE GOVERNOR VALVE TESTING. A FAILED TURBINE GOVERNOR VALVE CIRCUIT CARD CAUSED THE	
								VALVE TO RAPIDLY CYCLE CLOSED AND OPEN TWICE. THE	
WATERFORD 3	02/13/01	382	1	3822001002	277/12	ODEBVIE		SUBSEQUENT POWER INCREASE RESULTED IN A VARIABLE OVER POWER RX TRIP.	
WATENFORD 3	02/13/01	302	4	3022001003	3//42	OFENAIL	A010	I OWLININA HNIF.	
								THE REACTOR TRIPPED DURING DEH TESTING FOLLOWING	
								MAINTENANCE ON THE DEH QUADVOTER VALVE SOLENOID. THE CAUSE OF THE SCRAM WAS A GOVERNOR VALVE FAST CLOSURE DUE	
								TO A DEH TRIP HEADER PRESSURE FLUCTUATION DUE TO AIR	
COLUMBIA	02/08/09	397	4	3972009001	44839	OPERATE	AUTO	INTRODUCED DURING MAINTENANCE.	

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PLANTHAME	EVENT	DA	CHET RE	sign licensee	, v	t Motification	MODE	Scram Cau	MOTES
82	<u> </u>	/ 🕉	/ Pr	, ite	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	<u> </u>	<u>/ 50</u>	THE REACTOR WAS MANUALLY TRIPPED DUE TO THE LOSS OF THE	/ NO
								MAIN GENERATOR SEAL OIL SYSTEM. THE SEAL OIL FILTER BECAME	
COLLINADIA	05 /09 /00	207	4	207200000	45051	ODEDATE		CLOGGED DURING TESTING AND SEAL OIL PRESSURE COULD NOT BE	
COLUMBIA	05/08/09	397	4	3972009002	43031	OPERATE	IVIAIN	RESTORED. THE REACTOR WAS MANUALLY TRIPPED WHEN A FIRE WAS	
								OBSERVED BETWEEN THE MAIN TURBINE BEARINGS. THE FIRE THAT	
								WAS CAUSED BY LEAKING LUBE OIL WAS EXTINGUISHED IN 17	
	0.5 /0.5 /0.0	207		207200000	45460	0050475		MINUTES. THE LUBE OIL LEAK WAS DUE TO AN OUT OF CAL PRESS	
COLUMBIA	06/26/09	397	4	3972009003	45169	OPERATE	MAN	SWITCH ON THE LO EXHAUSTER SYSTEM.	
								THE REACTOR TRIPPED FROM 100% POWER FOLLOWING A FIRE IN A	
								NON-SAFETY-RELATED BUS THAT RESULTED IN A MAIN TURBINE TRIP.	
								THE PROBABLE CAUSE OF THE LOSS OF BUS WAS THE RELAXATION OF	
COLUMBIA	08/05/09	397	4	3972009004	45245	OPERATE	AUTO	A BOLTED CONNECTION DUE TO REPEATED THERMAL CYCLES.	
								THE REACTOR WAS MANUALLY TRIPPED DUE TO A LEAK IN THE DIGITAL ELECTRO-HYDRAULIC CONTROL SYSTEM. THE LEAK IN THE	
								AREA OF THE QUAD-VOTER HYDRAULIC TRIP SUBSYSTEM WAS	
								CAUSED BY AN O-RING FAILURE DUE TO INCORRECT ASSEMBLY	
COLUMBIA	11/07/09	397	4	3972009005	45484	OPERATE		FOLLOWING MAINTENANCE.	
								DURING TESTING OF A NEW DIGITAL ELECTRO-HYDRAULIC	
								QUADVOTER VALVE, A LEAK DEVELOPED, WHICH DROPPED DEH	THE REACTOR SCRAMMED ON A THRRINE COVERNOR
COLUMBIA	08/21/08	397	4	3972008001	44432	OPERATE		RESERVOIR LEVEL 8 INCHES. THIS RESULTED IN BOTH A MAIN TURBINE TRIP AND REACTOR TRIP.	THE REACTOR SCRAMMED ON A TURBINE GOVERNOR VALVE FAST CLOSURE TRIP OIL PRESSURE LOW SIGNAL.
COLONBIA	00/21/00	337		337200001	77732	OFERATE		AT 70% POWER WITH ONE CONDENSATE PUMP SECURED, THE	VALVETAST CLOSORE TRIT OFFT RESSORE LOW SIGNAL.
								RUNNING CONDENSATE PUMP TRIPPED DUE TO INCORRECT	
								CONFIGURATION OF THE PUMP LUBE OIL FILTER VALVES AND THE	
								DECISION TO TRANSFER FILTERS WITH THE PUMP IN SERVICE. THE	
COLUMBIA	06/28/07	397	4	3972007004	43457	OPERATE	AUTO	REACTOR TRIPPED ON LOW WATER LEVEL.	
								 THE REACTOR TRIPPED FOLLOWING A TURBINE TRIP CAUSED BY LOW	
								AUTO STOP OIL PRESSURE. THE CAUSE OF THE FAILURE WAS A FAILED	
COLUMBIA	10/31/06	397	4	3972006001	42950	OPERATE	AUTO	DIGITAL ELECTRO-HYDRAULIC DIGITAL INPUT CARD.	
COLLINADIA	06/15/05	207	4	2072005002	41770			A RX SCRAM OCCURRED ON TURBINE THROTTLE VALVE CLOSURE.	
COLUMBIA	06/15/05	397	4	39/2005003	41//9	OPERATE	AUTU	THE MOST LIKELY CAUSE WAS FAILURE OF DEH CIRCUIT CARDS.	
								A SCRAM OCCURRED ON LOW RX WATER LEVEL AFTER A FEEDWATER	
								PUMP WAS LOST. THE CAUSE WAS A FALSE LOW SUCTION PRESSURE	
								SIGNAL RESULTING WHEN A TECHNICIAN TOUCHED THE WRONG	
COLUMBIA	06/23/05	397	4	3972005004	41790	OPERATE	+	TERMINATION POINT WITH A MULTI METER DURING MAINTENANCE. A RX SCRAM OCCURRED ON HIGH RCS PRESSURE FOLLOWING THE	
								CLOSURE OF A TURBINE GOVERNOR VALVE. THE CAUSE WAS FAILURE	
								OF A CIRCUIT BOARD IN THE TURBINE DIGITAL ELECTRONIC CONTROL	
COLUMBIA	07/30/04	397	4	3972004004	40910	OPERATE			
								THE RX WAS MANUALLY SCRAMMED WHEN THE RUNNING RX	
								FEEDWATER PUMP TRIPPED ON HIGH RX FEEDWATER TURBINE	
								DRAIN TANK LEVEL. THE CAUSE WAS INADEQUATE INTERFACE REQUIREMENTS BETWEEN NORMAL AND SHUTDOWN OPERATING	
COLUMBIA	08/15/04	397	4	3972004005	40959	OPERATE		CONDITIONS.	
	, -,							THE RX WAS MANUALLY TRIPPED DURING A STARTUP WHEN THE	
								OPERATING RX FEEDWATER PUMP TRIPPED ON LOW SUCTION	
								PRESSURE. OPERATOR ERROR RESULTED IN UNCONTROLLED	
COLUMBIA	08/17/04	207	1	3972004006	10061	ODERATE		FEEDWATER HEATER FILLING THAT CAUSED THE FEEDWATER SYSTEM TRANSIENT	
COLUIVIDIA	06/1//04	397	4	33/2004006	40904	OFERAIE	IVIAIN	INAIVOILIVI.	

PLANT MARK	EHEM	DATE	del se	idon licensee	Event Repo	of Multiples on Just 1	MODE SCR	Scram Cause Description Mucres	
COLUMBIA	06/30/03	397	4					A TURBINE TRIP/RX SCRAM OCCURRED ON A MAIN TRANSFORMER DIFFERENTIAL CURRENT RELAY ACTUATION. THE CAUSE WAS FAILURE DF A NONJACKETED CABLE THROUGH FRETTING ACTION.	
COLLINADIA	05/25/00	207	4	2072000002	27114	ODEDATE		A TURBINE TRIP/RX SCRAM OCCURRED FOLLOWING A MAIN GENERATOR AND TRANSFORMER OVERALL DIFFERENTIAL PROTECTIVE RELAY TRIP. THE CAUSE WAS A SHORT TO GROUND IN AN UNUSED TAP OF ONE OF THE 500KV CURRENT TRANSFORMER'S	
COLUMBIA	06/26/00		4	3972000003				THE RX WAS MANUALLY SCRAMMED ON DECREASING CONDENSER VACUUM. THE CAUSE WAS A BROKEN TURBINE DRAIN LINE WHICH ALLOWED AIR TO ENTER THE CONDENSER.	

Scrams with Reactive Inspections 2007 - Present

P. LAWY MAR	,nt len	T DATE Scram Cause Description	Rubic Reports	Brief Summary Star complete See public reports detailed
PILGRIM		1 RX SCRAM DURING STARTUP - HI-HI TRIP FROM INTERMEDIATE RANGE	Special Inspection Team (SIT) - In progress	Ongoing inspections
ROBINSON 2	10/07/1	O THE REACTOR TRIPPED WHEN A MOTOR FAULT OCCURRED ON A REACTOR COOLANT PUMP (RCP) CAUSING A SINGLE LOOP LOW FLOW TRIP. THE ROOT CAUSE OF THIS EVENT WAS INADEQUATE END WINDING BRACING ON THE "C" RCP.	SIT - ML103440401 - 2 Green Findings & 1 unresolved item (URI) ML110280299 - 1 Green Finding (URI)	Three Green findings of very low safety significance were identified for: 1) Bypassing the feedwater isolation safety function for three hours and twenty minutes, a condition prohibited by Technical Specifications and procedural requirements. 2) The failure to correct a known equipment deficiency, which adversely affected the operators' ability to respond to reactor trip transients. Specifically, the turbine building lubrication oil area fire protection detectors were known to actuate the turbine building lube oil deluge system during a non-fire event when the feedwater heater relief valves lift after a scram.
BRAIDWOOD 1 BRAIDWOOD 2	08/16/1	O BRAIDWOOD 1 - THE REACTOR TRIPPED FOLLOWING A TURBINE GENERATOR TRIP. THE TURBINE TRIPPED DUE TO LOSS OF CONDENSER VACUUM CAUSED BY THE LOSS OF THE ELECTRICAL BUS SUPPLYING THE CIRC WATER PUMPS. THE BUS WAS LOST WHEN WATER OVERFLOWED FROM THE AFW STANDPIPES. BRAIDWOOD 2 - THE REACTOR TRIPPED FOLLOWING A TRIP OF THE TURBINE GENERATOR. THE TURBINE GENERATOR TRIPPED DUE TO A GENERATOR LOCKOUT RELAY ACTUATION. THE LOCKOUT RELAY ACTUATION WAS CAUSED BY A PHASE- TO-GROUND FAULT IN THE ISOLATED PHASE (ISOPHASE) BUS DUCT.		3) The failure to perform vendor recommended inspections of the reactor coolant pump motors. Four Green findings of very low safety significance were identified for: 1) The failure to establish adequate inspect-and-clean controls for the forebay. Specifically, the operability margin of one train of the essential service water system decreased below pre-established limiting conditions due to fouling. 2) The failure to establish measures for the selection and review of equipment suitability. Fuses were replaced with a lower ampere rating than specified. 3) The failure to correct a condition that resulted in water being discharged to the turbine building floor during the reject of condensate from the condenser hotwell. Specifically, water had been observed overflowing to the turbine building floor in multiple instances in the past during hotwell condensate reject. However, the licensee did not implement corrective actions to correct this condition or evaluate its impact on plant equipment as required by the licensee's corrective action program. The water discharged from the condensate hotwell reject caused a reactor trip on the other unit. 4) The inadequate evaluation of operating experience. Specifically, the evaluation of an event at another plant that resulted in dislodged building material and a loss of off-site power was not properly addressed. During the dual unit trip, reactor building flashing was dislodged during a steam release and was found on power lines and in the vicinity of the off-site power supplies.
SURRY 1	06/08/1	O THE REACTOR TRIPPED ON STEAM FLOW/FEED FLOW MISMATCH. THE EVENT WAS THE RESULT OF LOSS OF A VITAL 120VAC BUS. THE BUS LOSS WAS CAUSED BY THE FAILURE OF AN UNINTERUPTIBLE POWER SUPPLY (UPS) INVERTER WHICH OCCURRED WHILE THE BUS'S ALTERNATE POWER SOURCE WAS OUT OF SERVICE FOR MAINT.	SIT- ML102560333 - 1 Green Finding	A Green finding of very low safety significance was identified for the failure to identify and correct degraded nuclear Instrument resistance capacitor filters.

P.LANT MANN			Seried Synthetic Reports detailed by See authoric Reports detailed
ROBINSON 2	03/28/10 LOSS OF 4KV BUS 5 DUE TO A FIRE RESULTED IN LOSS OF REACTOR COOLANT SYSTEM PUMP B AND A SUBSEQUENT REACTOR AND TURBINE TRIP. THE INITIAL FAULT WAS CAUSED BY THE FAILURE OF A FEEDER CABLE SUPPLYING 4KV BUS 5.	(PI) - Scrams)	On March 28, 2010, an event occurred at H. B. Robinson that involved a reactor trip, an electrical fault, a fire, a partial loss of offsite power, a safety injection actuation, a temporary concurrent loss of seal injection and thermal barrier heat exchanger cooling to reactor coolant pump seals, and operator errors. A 95001 supplemental inspection was performed to follow-up on these risk-significant issues (performance indicator scrams) to provide assurance that the root causes and contributing causes were understood, extent of condition and extent of cause were identified, and that the licensee's corrective actions were sufficient to address the root and contributing causes and prevent recurrence. Three White notice of violations were issued for low to moderate safety significance violations associated with: (1a) The failure to promptly correct a condition adverse to quality involving the failure of an Emergency Diesel Generator output breaker; and (1b) The failure to ensure the Emergency Diesel Generator remained operable as required by Technical Specifications. 2) Multiple and significant failures to adhere to procedures requirements 3) Failures to adequately design and implement operator training based on learning objectives A 95002 supplemental inspection will be performed to follow-up on these risk-significant issues to provide assurance that the root causes and contributing causes were understood, extent of condition and extent of cause were identified, and that the licensee's corrective actions were sufficient to address the root and contributing causes and prevent recurrence. In addition to independently determine if safety culture components caused or significantly contributed to the individual and collective (multiple white inputs) risk-significante performance issues. A Severity Level III traditional enforcement (TE) violation was issued for the submission of materially inaccurate information. Four Green findings of very low safety significance were identified for: 1) The failure to have adeq
			3) The failure to appropriately install electrical cables. This eventually led to a fire and a reactor trip. 4) The failure to correctly model the effects associated with a loss of electric power in the simulator (e.g., loss of component cooling water to the reactor coolant pump seals). The simulator is used to train operators and administer operating tests.

CALVERT CLIFFS 1 CALVERT CLIFFS 2	O2/18/10 CALVERT CLIFFS 1 - THE REACTOR TRIPPED DUE TO THE LOSS OF AN RCP FOLLOWING A PARTIAL LOSS OF OFFSITE POWER. THE RCP WAS LOST DUE TO AN ELECTRICAL MALFUNCTION. THE FAULT WAS CAUSED BY A SHORT DUE TO WATER INTRUSION INTO THE RELAY PROTECTION CIRCUITRY CUBICLE. CALVERT CLIFFS 2 - THE REACTOR TRIPPED ON LOW FLOW FOLLOWING A PARTIAL LOSS OF POWER TO THE RCP BUS. THE LOSS OF AN RCP WAS CAUSED BY AN ELECTRICAL MALFUNCTION DUE TO FAILURE OF A GROUND FAULT RELAY.	SIT - ML101650723 - 1 AV & 4 Green Findings ML102150484 - 1 White Finding (EA-10-080) ML111190104 - 95001	A White notice of violation was issued for the failure to develop and implement scheduled preventative maintenance for the Agast time delay relays. Specifically, the relays were not replaced after the 10 year service life as recommended by the vendor nor did the licensee establish a performance monitoring program to monitor the relays for degredation. The failure of the relay resulted in inoperability of the Emergency Diesel Generator and loss of the power to a safeguards bus. A 95001 supplemental inspection was performed to follow-up on this risk-significant issue to provide assurance that the root causes and contributing causes were understood, extent of condition and extent of cause were identified, and that the licensee's corrective actions were sufficient to address the root and contributing causes and prevent recurrence. Four Green findings of very low safety significance were identified for: 1) The failure to implement effective corrective actions to address auxiliary building roof leakage problems occurring over a 7 year period that ultimately resulted in switchgear grounds, a reactor trip, and the loss of several safety related systems. 2) The failure to translate the design calculations of phase overcurrent relays into the actual relay settings. The overcurrent relays protect the unit service transformer against electrical faults and the as-found relay setting could potentially cause the breakers to fail prior to tripping open. 3) The failure to evaluate and correct relay disc sticking or binding issues. This degraded condition can adversely impact the function of the Emergency Diesel Generators and the electrical distribution protection scheme. 4) The failure to establish adequate procedures for restoration of Chemical and Volume Control System letdown flow. Deficient operating instructions prevented timely restoration of letdown flow following the initial transient and led to pressurizer level exceeding the Technical Specification limit for pressurizer level.
CALVERT CLIFFS 1	02/18/10 CALVERT CLIFFS 1 - THE REACTOR TRIPPED DUE TO THE LOSS OF AN RCP FOLLOWING A PARTIAL LOSS OF OFFSITE POWER. THE RCP WAS LOST DUE TO AN ELECTRICAL MALFUNCTION. THE FAULT WAS CAUSED BY A SHORT DUE TO WATER INTRUSION INTO THE RELAY PROTECTION CIRCUITRY CUBICLE.	SIT - ML101650723 - 4 Green Findings	

PLANTINAM			Brief Sunning of details I
WOLF CREEK	TURBINE TRIP AND MOMENTARY LOSS		Seven Green findings of very low safety significance were identified for: 1) The failure to recognize the adverse conditions related to their offsite power system. Specifically, the licensee failed to identify and enter pertinent switchyard operating experience and six occurrences of loss of offsite power into their corrective action program. 2) The failure to monitor and control steam generator water levels, which resulted in an unanticipated turbine trip signal and feedwater isolation. Contributing to the loss of level control was the disabling of a previously established operator selectable alarm for the steam generator level. 3) The failure to perform an operability evaluation for the impact of a pressure transient on the essential service water system. Several through wall leaks were observed due to significant internal corrosion. 4) The failure to properly screen condition reports for the essential service water system adverse conditions of internal corrosion and loss of offsite power induced system pressure transient. 5) The failure to provide adequate guidance to identify and address pitting, corrosion, and surface indications in the essential service water system. Chemistry control procedures did not contain quality standards or acceptance criteria. This resulted in delaying repairs until such degradations (pitting) had become through-wall leaks. 6) The failure to provide adequate guidance to address the impact of a loss of offsite power event on the essential service water system. 7) The failure to establish a fire watch in a timely manner following a fire trouble alarm. The complete loss of offsite power resulted in fire protection trouble alarms which required the establishment of a compensatory fire watch. These watches were not initiated until the following day. The two unresolved items are still being inspected.
OYSTER CREEK	07/12/09 THE REACTOR TRIPPED FOLLOWING A TURBINE TRIP DUE TO LOSS OF OFFSITE POWER CAUSED BY LIGHTNING STRIKES.		Two Green findings of very low safety significance were identified for: 1) Not identifying and correcting problems with the operation of the Generator Breaker Close relay contacts, which resulted in emergency diesel generator inoperablility. 2) Allowing foreign material to enter the Isolation Condenser level instrumentation piping. This resulted in erratic water level indication and Isolation Condenser unavailability.
COLUMBIA	05/08/09 THE REACTOR WAS MANUALLY TRIPPED DUE TO THE LOSS OF THE MAIN GENERATOR SEAL OIL SYSTEM. THE SEAL OIL FILTER BECAME CLOGGED DURING TESTING AND SEAL OIL PRESSURE COULD NOT BE RESTORED.	SIT - ML093280158 - 2 Green Findings	Two Green findings of very low safety significance were identified for: 1) The failure to correctly implement plant design changes to the digital electro-hydraulic control system and the reactor feedwater pumps. The new digital electrohydraulic control system was installed with an incorrect pressure setpoint due to an erroneous design calculation. This ultimately resulted in exceeding the cooldown safety limit of 100°F per hour. The new reactor feedwater level control system was installed with improper suction pressure setpoints and trip delays resulting in improper feedwater pump control. 2) A failure to include torque verifications of rigid and flexible bus connections and high potential testing. Specifically, the licensee removed torque verification and potential testing from their preventive maintenance program without considering operating experience. This omission most likely contributed to the bus failure.
COOK 1	09/20/08 THE REACTOR WAS MANUALLY TRIPPED AFTER A MALFUNCTION OF THE MAIN TURBINE GENERATOR RESULTED IN HIGH TURBINE VIBRATIONS AND A FIRE IN THE GENERATOR.	SIT - ML090260032 - 1 Green Finding	A Green finding of very low safety significance was identified for the failure to have appropriate procedures for control room operator actions. Specifically, a control room annunciator response procedure for a fire protection alarm panel failed to provide appropriate guidance for diagnosing a fire protection system failure as evidenced by the simultaneous operation of all three fire pumps.

P.LANT MARKE	t tyteri	DATE Strancause Description	Rubic Reports	Brief Sunnary for complete See public reports fee to the last of
MONTICELLO	09/11/08	WITH THE 1R TRANSFORMER OUT FOR MAINTENANCE, THE 2R TRANSFORMER EXPERIENCED A LOCKOUT RESULTING IN LOSS OF OFFSITE POWER, WHICH RESULTED IN A REACTOR TRIP.	SIT - ML083510254 - 5 Green Findings	Five Green findings of very low safety significance were identified for: 1) Inadequate procedures to control reactor pressure vessel level. Specifically, the operating instructions for the control rod drive system were inadequate since they did not provide direction to control the addition of water to the reactor pressure vessel following a scram with reactor pressure vessel isolation. 2) A failure to establish an effective monitoring and corrective action plan for the underground cables. Preventive maintenance and testing methodology implemented was not sufficient to establish the condition of the cables (e.g., cable insulation resistance) to ensure functionality. 3) A failure to establish and implement an effective test control program for cables subjected to submersion. 4) A temporary loss of shutdown cooling. Specifically, operators failed to complete the shutdown checklist following the scram and did not close the reference leg fill valve from the control rod drive system. When the control rod drive pump was started, the reference leg experienced a pressure spike and the resulting full reactor protection system actuation resulted in a loss of shutdown cooling. 5) A failure of the high pressure coolant injection (HPCI) system to trip when reactor pressure vessel water level reached the trip setpoint. It was determined that the normally de-energized HPCI trip solenoid valve failed to trip promptly when actuated and was degraded due to improper reassembly of the solenoid valve after refurbishment and degraded elastomers. An engineering evaluation recommended a periodic replacement of the elastomers in this valve. No preventive maintenance activity was created or performed prior to the failure even though the recommended interval had been exceeded since the last overhaul.
PRAIRIE ISLAND 1		THE REACTOR SCRAMMED DURING REACTOR PROTECTION SYSTEM TESTING. ONE OVER TEMPERATURE DELTA T CHANNEL WAS IN TEST WHEN A CONTROLLER IN THE OTHER CHANNEL FAILED.	SIT - ML083120510 - 1 Preliminary Greater than Green ML102500641 - White Finding (EA-08-272) ML092890143 - 95001	A White notice of violation was issued for a low to moderate safety significance violation of Technical Specifications associated with the licensee's failure to adequately control the position of a valve that could isolate the Turbine Driven Auxiliary Fresh Water Pump's (TDAFWP's) discharge pressure switch. Because of the valve being closed, the TDAFWP failed to run as required, subsequent to a reactor trip. The manifold isolation valve was determined to have been shut for 138 days, rendering the TDAFWP inoperable for a time period that significantly exceeded the Technical Specification allowed outage time (72 hours) for the pump. A 95001 supplemental inspection was performed to follow-up on this risk-significant issue to provide assurance that the root causes and contributing causes were understood, extent of condition and extent of cause were identified, and that the licensee's corrective actions were sufficient to address the root and contributing causes and prevent recurrence.
PERRY		THE REACTOR TRIPPED DUE TO A TURBINE CONTROL VALVE FAST CLOSURE SIGNAL. THE CAUSE OF THE TRIP WAS FAILURE OF THE POWER SUPPLIES IN THE DIGITAL FEEDWATER CONTROL SYSTEM.	SIT - ML080280499 - 1 Green Finding, 3 URIs ML081290566 - 4 Green Findings	Five Green findings of very low safety significance were identified for: 1) The improper installation of replacement power supplies in the digital feedwater control system. The installed replacement power supplies were oriented incorrectly to assure proper cooling. 2) The failure of the reactor core isolation cooling (RCIC) to perform its design function during the reactor scram and plant response. The RCIC system started automatically on low reactor water level, began to inject into the reactor pressure vessel, and then tripped on low suction pressure. The RCIC pump flow controller was found to have been incorrectly tuned. 3) Improper testing of the RCIC system. Specifically, the program failed to incorporate the requirements and acceptance limits contained in applicable design documents to assure that RCIC flow controller configuration and performance met design requirements during testing. 4) The failure to perform adequate corrective actions to preclude repetition of a significant condition adverse to quality in response to a similar previously declared RCIC inoperably condition. 5) The failure to identify the RCIC failures as a significant condition adverse to quality within their corrective action program.
NORTH ANNA 2		A SPURIOUS "B" TRAIN Safety Injection (SI) SIGNAL RESULTED IN A TURBINE TRIP AND SUBSEQUENT REACTOR TRIP.	SIT - Report ML072410359, 2 URIs ML083020663 - No Findings (URI)	No findings were identified