

**Office of Nuclear Regulatory Research
Division of Risk Analysis
Fire Research Branch**

Enclosure 1

Development of Metric Monitoring Methodologies

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Purpose

The purpose of this study is to provide a metric with which to assess the effectiveness of improvements to the U.S. NRC's fire protection regulations in support of Task #5, "Assess Regulatory Effectiveness" of SECY-08-0171 "Plan for Stabilizing Fire Protection Regulatory Infrastructure." The staff trended the number of significant plant fires that occurred in the past; ten years, twenty years and twenty seven years that met the 10 CFR 50.72/73 reporting threshold normalized by the number of operating reactors (Fire Events). The staff also trended the number of plant fire protection inspection findings identified in the past eleven years that are classified in the Reactor Oversight Process (ROP) as Green or Greater than Green (White/Yellow/Red), normalized by the number of operating reactors inspected.

In addition the staff tracked and analyzed long standing compensatory measures. The information contained in the first report established the baseline for the metric. The staff plans to update the trending and report the results semiannually.

Process

This semiannual update study collected and analyzed fire event data reported between January 1, 1985 and September 1, 2011 and fire protection inspection findings reported under the Triennial and Annual/ Quarterly Procedures since the start of the Reactor Oversight Process, January 1, 2000, through September 1, 2011. The analysis was conducted in three Phases:

- *Phase I* -analysis and trending of all fire events reported under 10CFR50.72/50.73;
- *Phase II* -analysis and trending of the fire protection inspection findings;
- *Phase III* -analysis and tracking of the long standing compensatory measures.

PHASE I: Fire Events

Background:

Title 10 of the Code of Federal Regulations (10 CFR), Part 50, Sections 50.72 and 50.73 contains the requirements that licensees report incidents to the NRC, including fire incidents which result in an emergency declaration. Section 50.72 requires notification by phone of various events in a 1-hour, 4-hour and 8-hour period following the event. These events are called *Event Notifications (EN)*. Additionally, licensees may report fires under Section 50.73 as *Licensee Event Reports (LERs)* in conjunction with other reportable events such as reactor scrams, safety system functional failures or technical specification violations. Licensees must report LERs within 60 days of the event.

The objective of Phase I is to trend those fire events reported via either ENs or LERs between 1999 and 2011, as well as historical fire data which, for the purposes of report, are events that occurred prior to 1999. The period between 1985 and 1999 has been analyzed in this report. These trends may be used to assess the progression of fire protection regulations during these time periods.

Data Collection:

The first step in the data collection process was to determine a consistent definition of a “fire.” Once this was determined, a reliable set of data can be pulled from the LER database for analysis. Idaho National Laboratory (INL) conducted a large part of the data collection and analysis phase on behalf of the Office of Nuclear Regulatory Research (RES). Defining the term, *fire*, may seem like an obvious determination, however this proved to be the first hurdle to overcome before data collection could commence. Since LERs and ENs are required for a variety of events, not just fires, a large amount of data needed to be evaluated in order to determine which reported incidents were applicable to this study. Those events that were referred to as a *fire* may not actually have constituted a *fire* by all definitions of the term. For example, the appearance of smoke may or may not be considered a fire. Thus, the definition of a *fire* for this study is “Combustion characterized by heat and light. Sources of smoke such as slipping drive belts or overheated electrical equipment do not constitute *fires*. Observation of flame is preferred but is NOT required if large quantities of smoke and heat are observed.” (NEI 99-01 rev 5). This definition is consistent with the most recent revision of the reporting criteria and is familiar to licensees.

The next challenge before data collection could commence was to determine a minimum threshold so that only *significant* fires are included in the metric. Staff Requirement Memorandum SRM-M081708 “July 17, 2008 Fire Protection Briefing to the Commission”, issued July 29, 2008 directed the staff to report on and trend “significant” fires. Thus, RES and INL agreed that “significant” fires would include any fire event reported via 10CFR50.72(a)(1)(i) or any fire reported via other 50.72 or 50.73 reports which if plant personnel had not taken action would have likely required reporting via 10CFR50.72(a)(1)(i). Since the utilities are using NEI 99-01 rev. 5 in the development of their emergency plans, the definition of a fire and the locations of concern from this document were used in determining if an event “likely would have required reporting”. Fires which occurred outside the site boundary, had very little chance of affecting important plant equipment or which did not require active extinguishment by plant personnel were excluded (for example brush fires outside the plant boundary, smoked relays or overheated belts etc.).

An important consideration necessary for Phase I was the reporting criteria set forth by the NRC for fire incidents, and whether these criteria have remained consistent enough over the years to allow for effective trending. Every nuclear power plant has a defined *Emergency Action Level (EAL)*, which is the threshold at which notification of an emergency under Section 50.72 must be declared and is based upon guidance documents specified by the NRC (there is no equivalent requirement to report fires via 50.73, so this only applies to reports made via 50.72). These guidance documents, however, have changed throughout the years. On four occasions, the NRC made changes to the EAL criteria for reporting a fire. These changes occurred in 1980, 1992, 2002, and 2008. Regulatory Guide 1.101 (Revision 4), “Emergency Response Planning and Preparedness for Nuclear Reactors” endorses the following documents as methods for developing EALs:

1. Appendix 1 to NUREG-0654/FEMA-REP-1, “Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants” (November 1980).
2. NUMARC/NESP-007, “Methodology for Development of Emergency Action Levels” (Revision 2, January 1992), Nuclear Utilities Management Council document.

3. NEI 99-01, "Methodology for Development of Emergency Action Levels" (Revision 4), Nuclear Energy Institute document (2002).
4. NEI 99-01, "Methodology for Development of Emergency Action Levels" (Revision 5), Nuclear Energy Institute document (2008).

Although the criteria for reporting fires has changed, licensees are not required to adopt the new criteria, nor are they, or were they ever, required to inform the NRC that they had not adopted the new criteria. According to 10 CFR 50.54(q) "the nuclear power reactor licensee may make changes to the [Emergency Action] plans without Commission approval only if the changes do not decrease the effectiveness of the plans." As such, a licensee could be using any of the guidance documents provided that they can justify this decision if asked. After reviewing the documents and the criteria outlined in each, it was concluded that none of the reporting thresholds were significantly different enough to have an impact on this report or skew the data in a measurable way.

One noteworthy change to the reporting criteria included the addition of a definition and reporting requirement for an *explosion*. The other major change to the criteria was a change in the duration of a reportable fire from one lasting longer than 10 minutes to that lasting longer than 15 minutes. Neither of these changes are considered to be major adjustments with regards to this study. Very few explosions were ever reported, so the absence from earlier data would not skew the results. The change from a fire being declared after 10 minute duration to 15 minute duration is not a significant shift since any fire categorized as "significant" was evaluated whether it had the potential to be reportable under 10CFR50.72 (a)(1)(i), thus a fire which had the potential to burn for 10 minutes would also have the potential to burn for 15 minutes without active extinguishment. In the end, criteria used for an EN under Section 50.72 were considered consistent with NEI 99-01, Revision 5 and ENs are included in the dataset if they met the following criteria:

1. An Unusual Event was declared when:
HU2: FIRE within the PROTECTED AREA was not extinguished in within 15 minutes of detection OR EXPLOSION within the PROTECTED AREA.
Op. Modes: All
2. An Alert was declared when:
HA2: FIRE or EXPLOSION affecting the operability of plant safety systems required to establish or maintain safe shutdown.
Op. Modes: All

Additionally, fires which were reported via ENs or LERs for other reportable reasons and had the potential to meet the above reporting criteria had action not been taken to suppress the fire were also included. These criteria are consistent for the purposes of this study.

Results

To report the results, the number of plant fires that occurred in prior 12 months that met the 10 CFR 50.72/73 reporting threshold and the criteria for "significant fires" (described above) were normalized by the number of operating reactors (Fire Events). The overall result of the data collection for the last 10 year period is that the rate of fire events is increasing slightly, but the trend is not statistically significant. ($R^2 < .399$, $n = 10$, 95% confidence Figure 1). The overall result for the data collection for the last 20 year period indicates a slightly improving (not statistically significant) trend ($R^2 < .197$, $n = 20$, 95% confidence Figure 2). The data collection

for the last 27 year period indicates a statistically significant improving trend. ($R^2 > .157$, $n = 27$, 95% confidence Figure 3). The change in fire event trending can be clearly is lustrated by comparing Figures 2 and 3. There appears to be a downward trend in significant fire events. RES will continue to compile data for time periods predating 1985 in order to evaluate any possible trends which arise.

Figure 1 shows the rate of significant fires per reactor year by calendar year between 2002 and 2011, normalized by the number of operating plants and reactor years and represents *significant fires* reported under the 10 CFR 50.72 and 50.73. Based on Figure 1, between 2002 and 2011 there is no apparent trend to determine the effectiveness of the fire protection regulations. Figure 1 takes a narrow view of the fire frequency for the last 10 years to see if there have been any significant trends surfacing throughout the plants. There have been no significant changes to reporting criteria in this timeframe which RES believes would skew the data in any significant manor. Along with this narrow view approach, more research has been conducted by RES to determine if the number of reportable fires has changed as a result of major refinements to the regulations promulgated in the 1980s. Based on Figure 3, between 1985 and 2011 there is a statistically significant, downward trend in the incidences of reported, significant fires. Statistical methods used to evaluate trends were taken from the NRC Industry Trends Program. The reference is available in Inspection Manual Chapter (IMC) 0313, "Industry Trends Program" (Ref. 3) and on the NRC web site ([NRC Industry Trends Program Web Site](http://www.nrc.gov/reactors/operating/oversight/industry-trends.html)). <http://www.nrc.gov/reactors/operating/oversight/industry-trends.html>

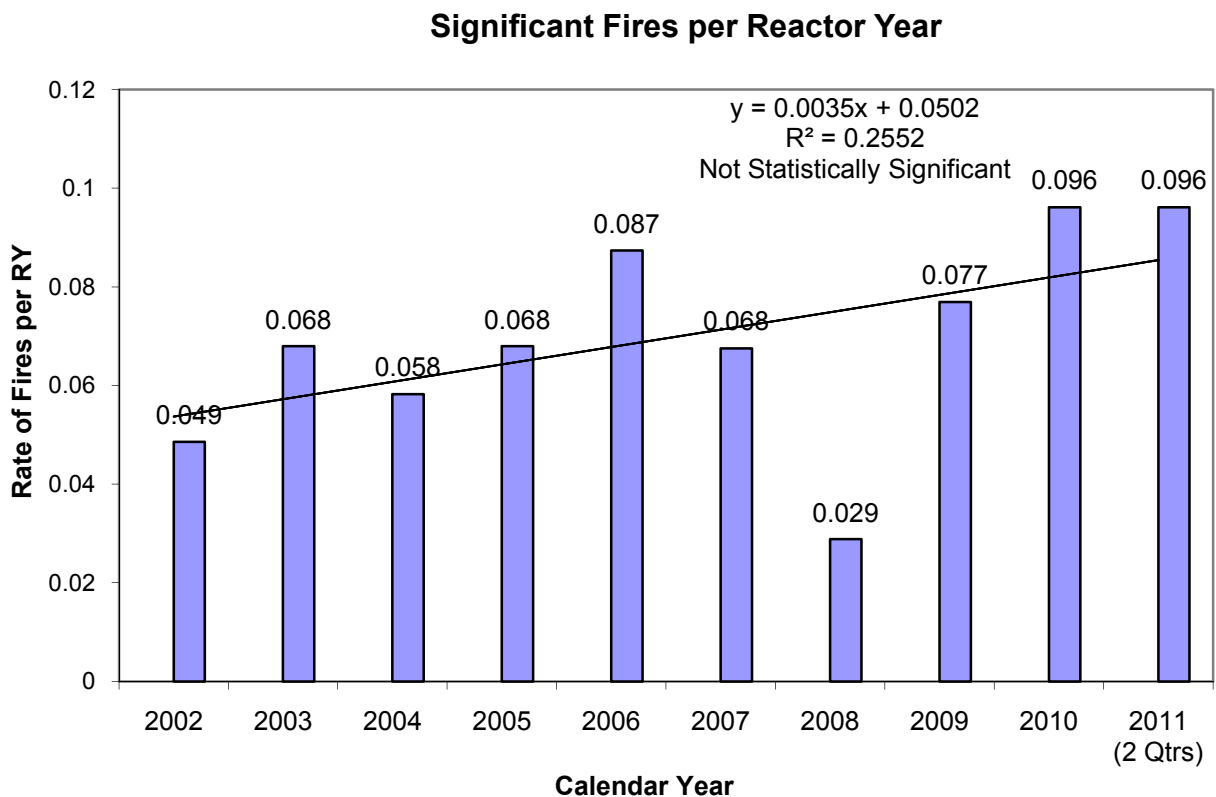


Figure 1: Number of Significant Fires Reported per Reactor Year 2002-2011

Significant Fires per Reactor Year

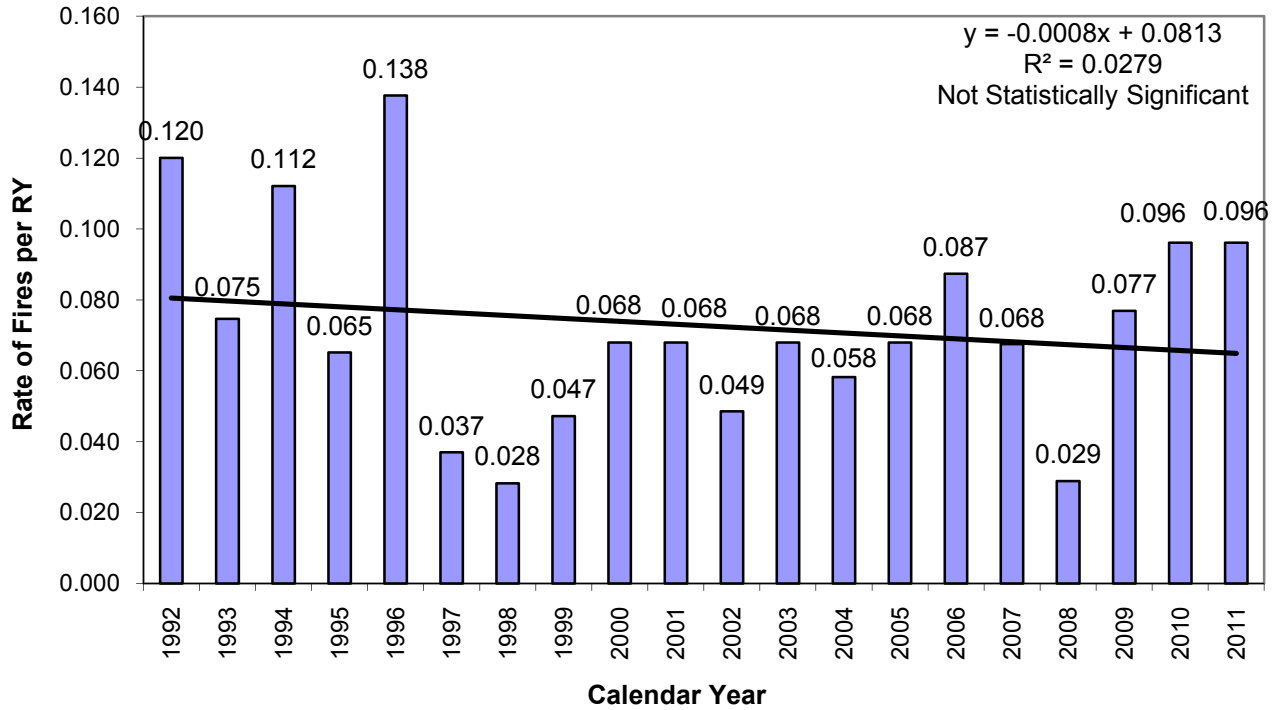


Figure 2: Number of Significant Fires Reported per Reactor Year 1992-2011

Significant Fires per Reactor Year

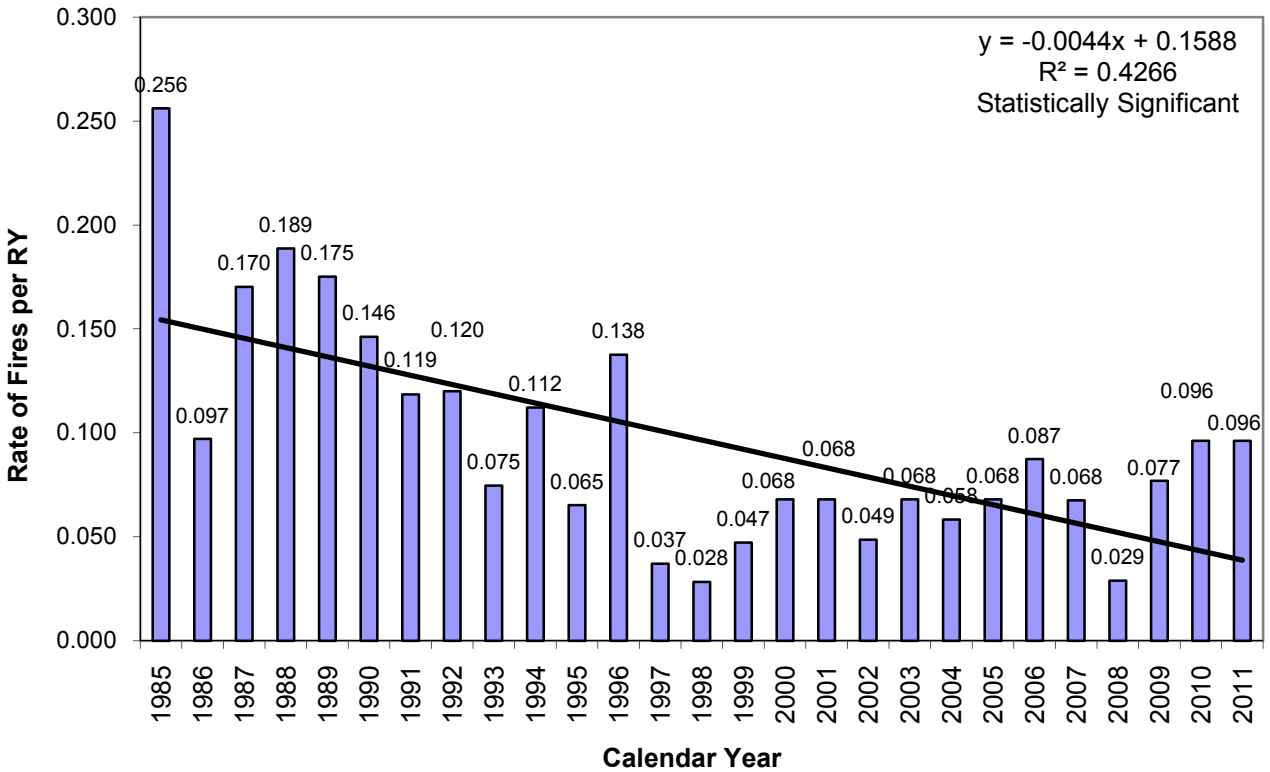


Figure 3: Number of Significant Fires Reported per Reactor Year 1985-2011

Significant Fires

Year	Event Notification 10 CFR 50.72	Licensee Event Notifications 10 CFR 50.73	Total Fires	Reactor Years
1985	19	3	22	85.90
1986	5	4	9	92.75
1987	11	6	17	99.83
1988	13	7	20	106.00
1989	10	9	19	108.49
1990	8	8	16	109.42
1991	5	8	13	109.67
1992	5	8	13	108.25
1993	5	3	8	107.17
1994	5	7	12	107.00
1995	3	4	7	107.33
1996	10	5	15	109.00
1997	2	2	4	108.08
1998	3	0	3	106.00
1999	2	3	5	105.83
2000	3	4	7	103.00
2001	4	3	7	103.00
2002	2	3	5	103.00
2003	4	3	7	103.00
2004	2	4	6	103.00
2005	4	3	7	103.00
2006	7	2	9	103.00
2007	5	2	7	103.66
2008	1	2	3	104.00
2009	5	3	8	104.00
2010	7	3	10	104.00
2011	5	0	5	52 (2 Qtrs)
Total	150	109	264	2707.38
Average Fires Per Year	5.74	4.04	9.78	104.1

Table 1: Raw Number of Significant Fires Reported per Reactor Year 1985-2011

PHASE II: Fire Protection Inspection Findings

Background:

Phase II of the study was to analyze fire protection inspection findings reported between 2000 and 2011 under the following procedures: Triennial Procedure (7111105T), the NFPA 805 Transitional Triennial Procedure (7111105TTP), and Annual/ Quarterly Procedure (7111105Q/A). The purpose of analyzing the findings was to determine if a trend in reportable findings exists, and if so, how this trend reflects the effectiveness of NRC's fire protection regulations. The next update to this report will also evaluate the newest fire protection inspection procedure 7111105x associated with the transition to NFPA 805.

The Triennial Fire Protection Inspection Procedure (71111.05T) is performed per site, every three years. The procedure suggests selecting three to five risk-significant fire areas in a site, and conducting a risk-informed inspection of selected aspects of the licensee's fire protection program for these areas. The selections of the fire areas to be inspected are based on inputs from the senior reactor analyst (SRA) and the resident inspectors. Inspection teams from the Regions conduct the triennial inspections.

The Triennial Fire Protection-NFPA 805 Transition Inspection Procedure, (71111.05TTP) is performed every three years. The objectives of this inspection are similar to the Triennial Inspection Procedure with the addition of the review of the licensee's problem identification and resolution (PI&R) of the fire protection program. Inspection teams from the Regions also conduct these Triennial Inspections. Currently, NFPA 805 nuclear power plants are under enforcement discretion and as result, most of the findings are not color coded and do not have tracking numbers.

Portions of the Annual/Quarterly Fire Protection Inspection Procedure (71111.05A/Q) are performed every three months and other portions each year. Five total inspections are conducted per year using this procedure (one per quarter, plus the annual), but four total inspections reports are published. The quarterly inspection, generally, consists of touring six to twelve plant areas to assess the material condition of active and passive fire protection systems. The annual inspection consists of the evaluation of the licensees' fire brigade performance. The resident inspectors routinely conduct the Annual and Quarterly Inspections. These reports are published under the category NRC Integrated Inspection Reports.

Data Collection:

RES staff used two different data sources to gather inspection finding data. The authors used the Dynamic Website, which is part of the internal NRC Reactor Oversight Process (ROP) website, and the Reactor Oversight Process List of Inspection Reports public website.

The Dynamic Website is an NRC internal database containing all inspection findings for nuclear power plants. Using this webpage, RES staff searched per fire protection inspection procedure number and for all type of findings, during the time frame for this study. Because we found some inconsistencies in the data reporting, we used this website as a guideline only For example:

1. Some annual/quarterly findings appeared in the triennial findings search list.
2. Some triennial findings appeared in the annual/quarterly findings search list.

3. Some findings appeared in both searches and we were double counting them.
4. Some findings were mentioned in the fire inspections report but did not appear in any search at all.

For more information about the issues with the fire protection data see Table B-7 in the Appendix B.

The NRC Reactor Oversight Process List of Inspection Reports public website is a database containing all the inspection reports per nuclear power plant. RES staff used this website to compile and cross-check all the dates for the triennial fire protection inspections; to verify the findings that the Dynamic Website gave us, add findings that did not appear in the Dynamic Website search; and to follow up some unresolved items until they were closed.

RES staff, upon consultation with NRR staff, decided to analyze the Triennial Fire Protection-NFPA 805 Transition inspections findings with the triennial inspection findings, mainly because both procedures are similar and NFPA 805 plants did not have a significant amount of data due to the granted enforcement discretion. Also, RES decided to analyze the annual inspection findings with the quarterly inspection findings since they used the same procedure with the findings reported in the quarterly integrated reports.

The triennial data collection consisted of opening each triennial report to ensure we had all the findings; following up the unresolved items (URI) until they were closed; and determining the amount of inspections conducted per year. During the process of following up URI, we realized that we were not counting the findings when they were first observed and we changed that in the data. For example if we had an unresolved finding in a triennial report for 2000 and it became a NCV in 2004, that finding was counted in 2000 instead of 2004. This was a significant change in our data and in our analysis in comparison to the past report.

RES staff have strong confidence in the data for triennial findings. The annual/quarterly data collection consisted of doing four searches in the Dynamic Website and adding the annual/quarterly findings that appeared in the triennial findings search. Additional effort was placed on screening the Annual/Quarterly findings for significance and relevance. Only the findings relevant to fire protection were included in this study.

In this report, RES staff included all the 2011 findings publicly available by September 1st 2011. However, these analyses focused only on findings and non-cited violations. (e.g., non cited violations whether they were green, SL-IV, or without any color or denominations at all; findings whether they were green or without any color) The greater than green violations were analyzed separately. There were only 10 white violations and 1 yellow violation found during the past decade. This report only analyzes those findings that were discovered as a direct result of either a triennial fire protection inspection or an annual/quarterly inspection. There have been two other recent white findings in 2010 associated with fire protection issues (H.B. Robinson/ Fort Calhoun); they have not been included in this analysis.

Results:

Figures 4 and 5 show the results of the fire protection inspection findings data collection process. Refer to Appendix B for the complete set of data for all inspections.

Triennial Results:

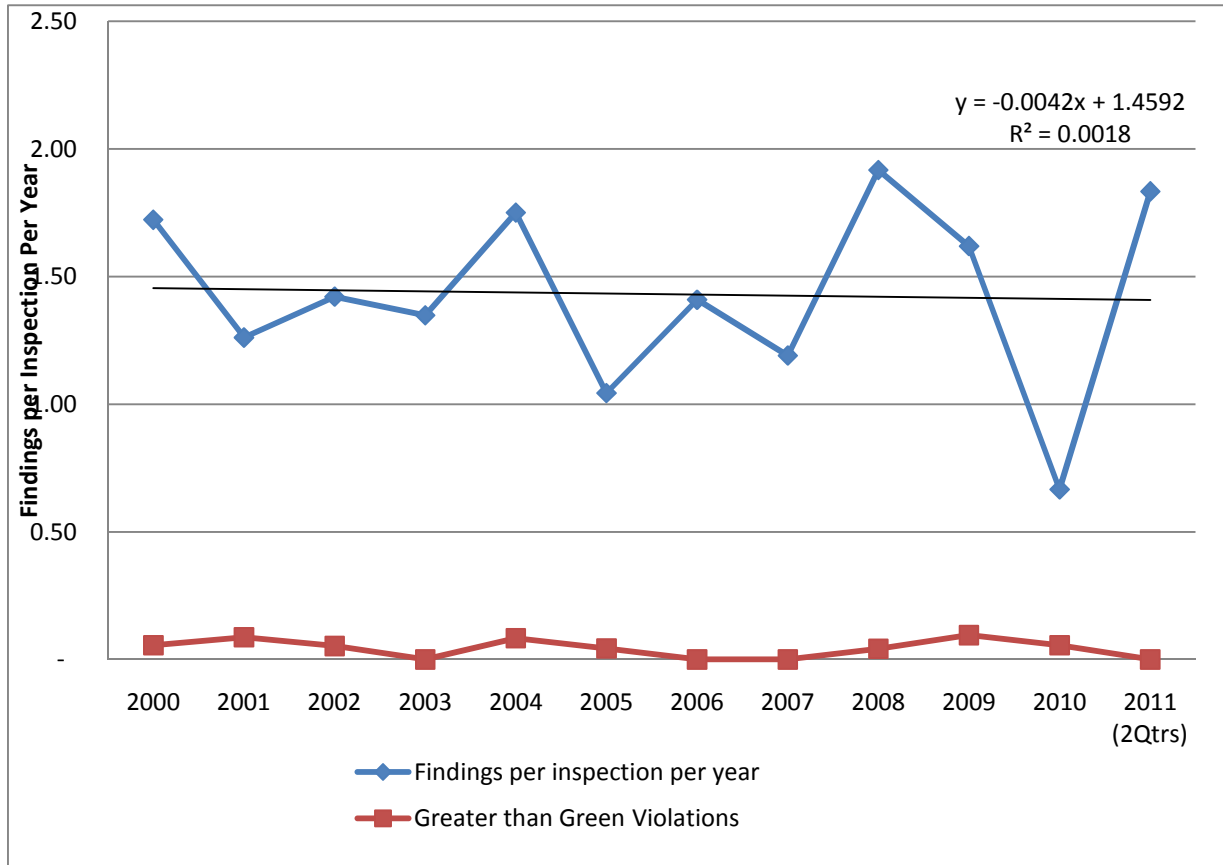


Figure 4: Triennial Fire Protection Findings Normalized per Year

Annual/Quarterly Results:

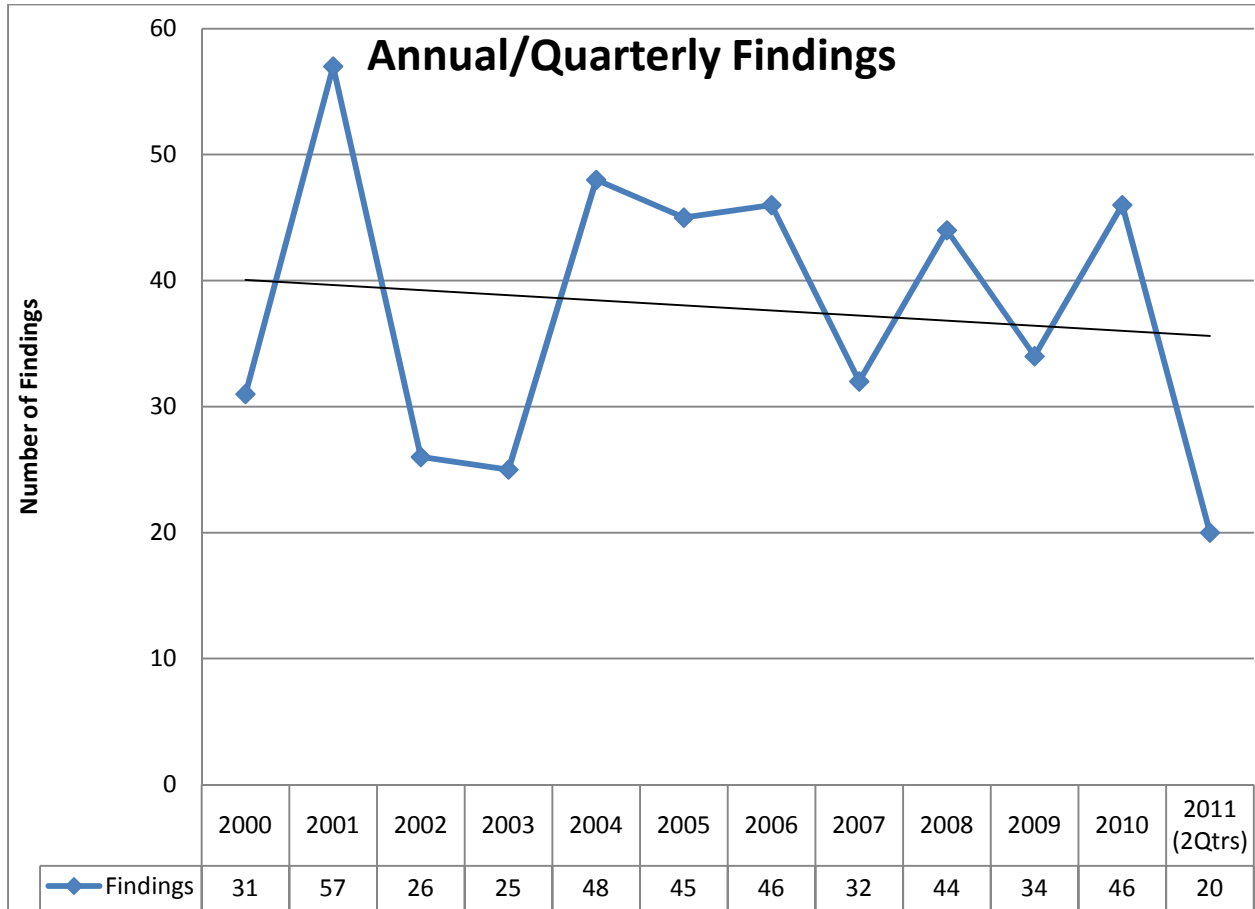


Figure 4: Annual/Quarterly Fire Protection Findings Normalized per Year

Analysis:

An analysis was performed to determine the presence of statistically significant trends in fire protection inspection findings. Two sets of data for the period 2000-2011 were examined:

- Findings noted during triennial fire protection inspections and NFPA-805 fire protection inspection conducted under Attachment 71111.05T and Attachment 71111.05TTP to Inspection Procedure (IP) 71111, “Reactor Safety – Initiating Events, Mitigating Systems, Barrier Integrity”, and
- Findings noted during quarterly fire protection inspections conducted under Attachment 71111.05AQ to IP 71111.

These two data sets were selected because they provide insight into the overall efficacy of the fire protection inspection program. A trend analysis of other inspection finding categories (e.g., green apparent violations, white violations) was not conducted because there were very few or no findings within these categories during the period 2000-2011. Similarly, a trend analysis of

inspection findings by NRC region was not pursued due to the small number of overall inspection findings.

A log-linear model was fit to each set of data using the Poisson-maximum-likelihood method (Poisson regression), as discussed in Section 7.2.4 of NUREG/CR-6823, "Handbook of Parameter Estimation for Probabilistic Risk Assessment." Specifically:

$$\lambda_i = \exp(a + bi) \quad (1)$$

In the above equation, λ_i denotes the rate of inspection findings (either on a per-year or per-inspection basis) for time period i , and a and b are parameters determined from the observed data. For trend analysis, the important parameter is b : if b is negative, then the rate of inspection findings is decreasing; if b is positive, then the rate of inspection findings is increasing. The statistical test for trend is formulated as a hypothesis test to determine if $b = 0$. The a parameter has no intrinsic meaning with respect to the trend analysis.

Table 1 presents the data from the triennial fire protection inspections. Since there was a large variation in the number of triennial inspections conducted per calendar year, it was decided to trend the number of findings per inspection.

Table 1. Findings Noted During of Triennial Fire Protection Inspections for the Period 2000-2011 (2 Qtrs).						
Index	Calendar Year	Number of Findings	Number of Triennial Inspections	Findings Per Inspection		
				Maximum Likelihood Estimate	95% Chi-Squared Upper Bound	5% Chi-Squared Lower Bound
1	2000	31	18	1.722	2.324	1.247
2	2001	29	23	1.261	1.719	0.902
3	2002	27	19	1.421	1.960	1.003
4	2003	31	23	1.348	1.819	0.976
5	2004	42	24	1.750	2.263	1.331
6	2005	24	23	1.043	1.467	0.720
7	2006	31	22	1.409	1.902	1.020
8	2007	25	21	1.190	1.663	0.828
9	2008	46	24	1.917	2.451	1.477
10	2009	34	21	1.619	2.156	1.191
11	2010	13	18	0.722	1.148	0.427
12	2011 (2Qtrs)	22	12	1.833	2.618	1.241

The results of the trend analysis for the triennial fire protection inspections are shown in Figure 5. The fitted values of a and b are 0.3729 and -0.0023, respectively. Analysis indicates that there is no statistically significant trend for the findings noted during the triennial fire protection inspections (p-value of 0.887). The values for 2011 are uncertain due to the reporting time lag for inspections. The values currently in use are those which were publically available on September 1st 2011.

Results of Triennial Inspections

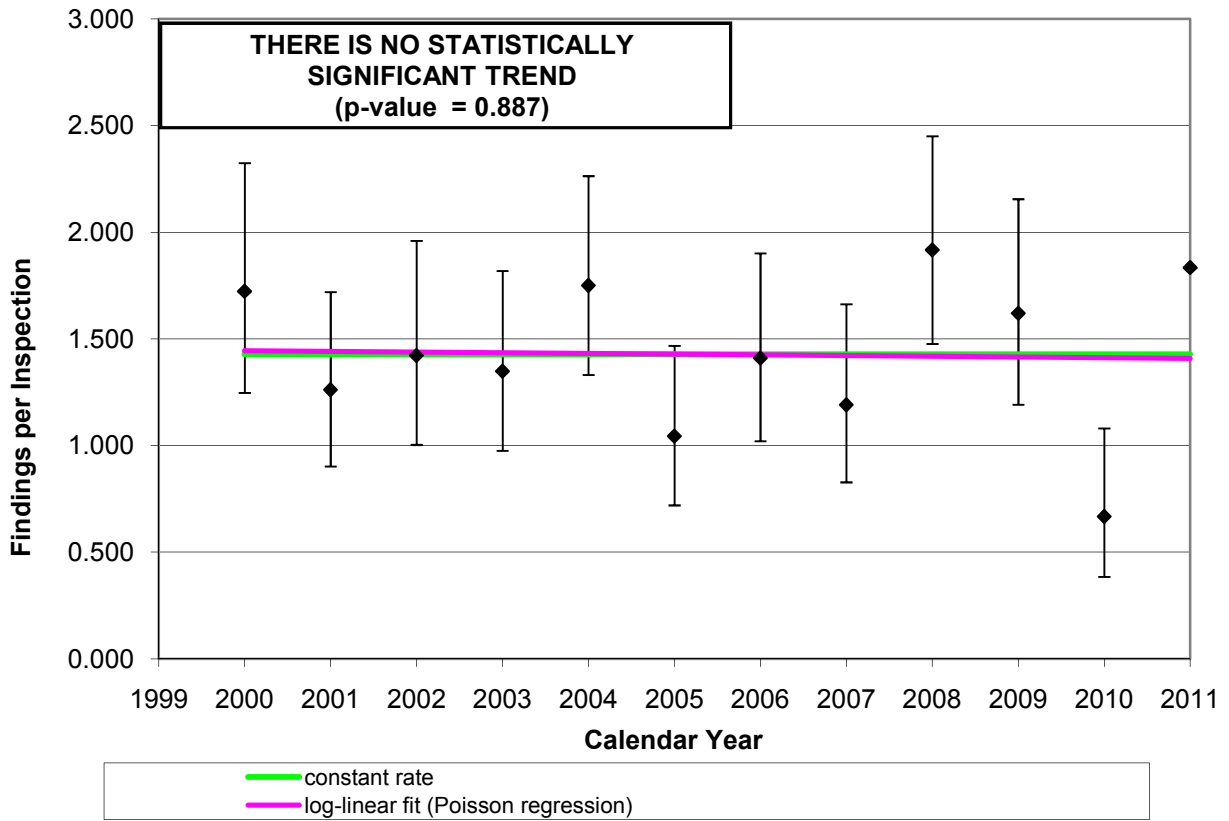


Figure 5: Trend analysis of findings made during triennial fire protection inspections for the period 2000-2011.

Table 2 presents the data from the quarterly fire protection inspections. Since there is no variation in the number of quarterly inspections conducted per calendar year, it was decided to trend the number of findings per year.

Table 2. Findings Noted During of Quarterly Fire Protection Inspections for the Period 2000-2011 (2 Qtrs).					
Index	Calendar Year	Number of Findings	Findings per Calendar Year		
			Maximum Likelihood Estimate	95% Chi-Squared Upper Bound	5% Chi-Squared Lower Bound
1	2000	31	31.0	41.838	22.445
2	2001	57	57.0	71.069	45.176
3	2002	26	26.0	36.077	18.219
4	2003	25	25.0	34.916	17.382
5	2004	48	48.0	61.054	37.200
6	2005	45	45.0	57.695	34.563
7	2006	46	46.0	58.816	35.441
8	2007	32	32.0	42.982	23.297
9	2008	44	44.0	56.573	33.687
10	2009	34	34.0	45.266	25.010
11	2010	38	38.0	49.808	28.460
12	2011 (2 Qtrs)	20	20.000	29.062	13.255

The results of the trend analysis for the quarterly fire protection inspections are shown in Figure 6. The fitted values of a and b are 3.661 and -0.0013, respectively. Analysis indicates that there is no statistically significant trend for the findings made during the annual/quarterly fire protection inspections (p-value of 0.4304). The values for 2011 are uncertain due to the reporting time lag for inspections. The values currently in use are those which were publically available on September 1st 2011.

Results of Quarterly Inspections Green Noncited Violations

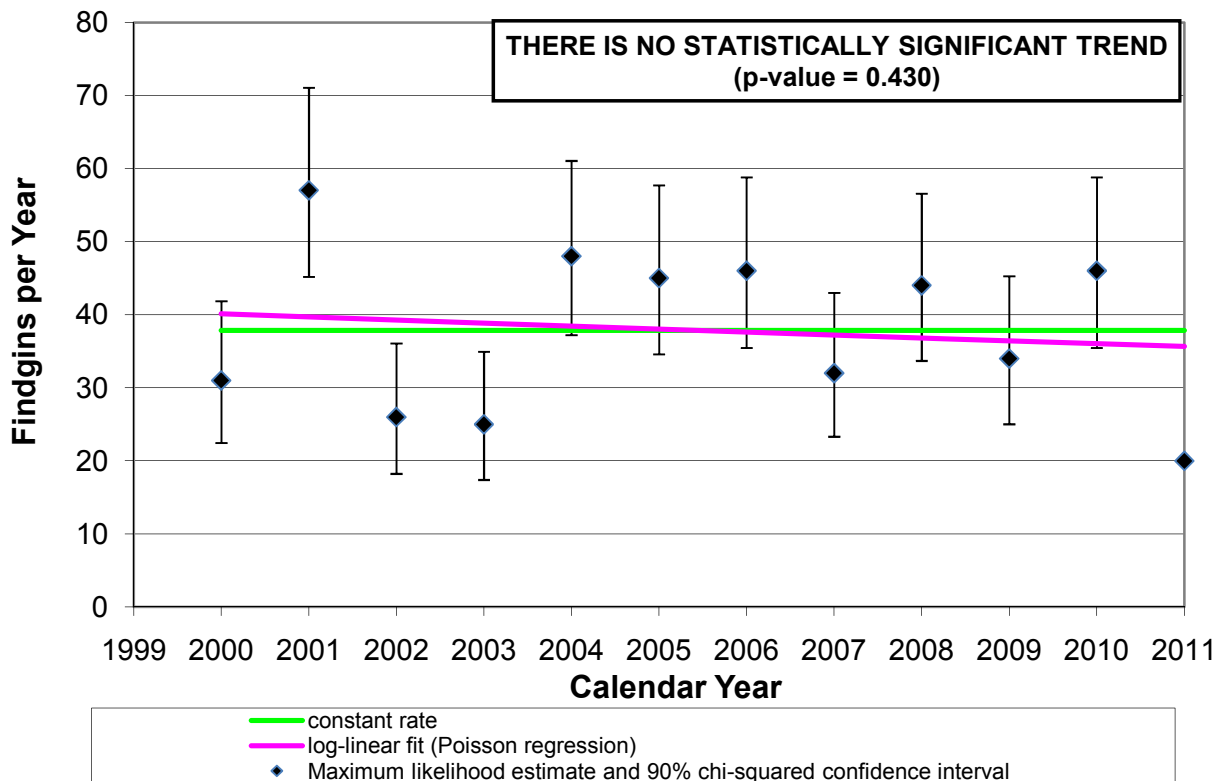


Figure 6: Trend analysis of findings noted during quarterly fire protection inspections for the period 2000-2011.

The interpretation of the results of the trend analysis requires careful consideration. Trends may exist due to changes in (a) licensee fire protection capability, and/or (b) the implementation of the fire protection inspection program. Due to the difficulty in interpreting trends for inspection results, the NRC staff will only assess reasons for very extreme changes in these trends. Based on the information above, these trends are not considered extreme.”

PHASE III: Long Term Compensatory Measures

Background:

Compensatory measures are temporary changes to specific fire protection features. Interim compensatory measures are implemented in order to perform maintenance or are temporary changes in order to meet the same level of protection until acceptable modifications can be made. Some examples of Compensatory measures are; fire watches, temporary fire barriers, or backup suppression capability. For common types of deficiencies, the technical specifications or the NRC-approved fire protection program (FPP) generally note the specific compensatory measures. For unique situations or for measures that the approved FPP does not include, the licensee may determine appropriate compensatory measures.

The licensee may implement compensatory measures for degraded and nonconforming conditions. Each licensee must make an evaluation towards the impact of each degraded or nonconforming condition on plant structures, systems, and components. The licensee may then decide to implement a compensatory measure as an interim step to restore operability or to otherwise enhance the capability of components important to safety until the final corrective action is complete.

Reliance on compensatory measures for operability should be an important consideration in establishing the time frame for completing the corrective action. The NRC would normally expect conditions that require interim compensatory measures to demonstrate operability to be resolved more promptly than conditions that are not dependent on compensatory measures to show operability; such reliance suggests a greater degree of degradation. Similarly, if an operability determination is based upon operator action, the NRC staff would expect the nonconforming condition to be resolved expeditiously.

Although compensatory measures were intended to be temporary interim changes to the fire protection program some nuclear units have used compensatory measures for extended periods of time. In some cases these changes are used for years in lieu of repairing or replacing the damaged equipment. NRC guidance instructs units to repair fire protection features as quickly as possible, it does not specify how long units can rely on interim compensatory measures.

The objective of Phase III is to track the compensatory measures which have been in place for an extended period of time, specifically those plants which have used compensatory measures for longer than a period of 18 months. This report will track these plants for the periods from January 2009 through June 2011. This report only tracks those plants that are not in the process of transitioning to the fire protection guidance of NFPA 805. Long term compensatory measures for plants transitioning to NFPA 805 have not been quantified for this update.

Data Collection:

Working with the current Memorandum of Understanding (MOU) RES and Electric Power and Research Institute (EPRI) collaborated in order to obtain the information regarding the number of current long term compensatory measures for plants not adopting NFPA805. For the purposes of this study the term "Long Term Compensatory Measures" is defined as only compensatory measures that have been in place for longer than 18 months.

For the purposes of this metric, station fire areas are as currently defined within a plant's safe shutdown analysis. This means that each discrete "analysis area" used for the purposes of safe shutdown should be counted as a "Fire Area". Since a plant's fire system impairment and subsequent compensatory actions are based on the impacts to SSCs within a fire area as defined in their safe shutdown analysis and the technical requirements manual, any list of fire areas with compensatory actions in place will be based on the same definition.

1. Fire Protection Compensatory Measure – For the purposes of this metric, Fire Protection Compensatory Actions are any action that is in place because a design feature, required by the Station's Safe Shutdown Analysis is out of service and the action is needed to maintain compliance with applicable Fire Protection regulations in 10 CFR Part 50.
2. Effective Date – The effective dates for this metric include periods from Jan 2009 through June 2011
3. Applicable Stations – This metric applies to any nuclear power stations that have not committed to adopt 10 CFR 50.48(c), National Fire Protection Association Standard (NFPA) 805, as of the effective date.

The data is being provided with no reference to the specific station or utility but rather with specific plant identification (ID). Also the data does not reference the specific number of long term compensatory measures per plant, but rather quantifies the number of fire areas which require long term compensatory measures. This is not a count of compensatory actions. This is a count of fire areas with compensatory actions in place. If there is a fire area that has a number of compensatory actions that have been in place for greater than 18 months as of the effective date, it counts as one (1). If there are five (5) fire areas that each require the use of the same compensatory action which has been in place for greater than 18 months as of the effective date, it counts as five (5).

Results

Over the past 6 months the total number of fire areas with long-term comp measures reduced by 26 from 54 to 28. Although the number of stations with long-term comp measures remained the same at 9; Station N eliminated all measures while Station BB added 1 long-term comp measure. While 5 stations (Stations A, I, N, Y and EE) decreased their number of long-term comp measures, 2 stations (Stations F and BB) increased their number. 3 stations (C, M, and Z) did not change their number of long-term comp measures. Most of the changes are the result of implementing resolutions to the Multiple Spurious Operations (MSO) issue.

Note that 1 station did reduce the number of fire areas through consolidation as part of a license change action.

The number of long-term comp measures will be dependent on the timing of implementation of resolutions to the MSO issue and therefore could fluctuate either way until November 2, 2012 when stations are working to resolve the MSO issues within the enforcement discretion period.

Plant ID	As of Jun 2009		As of Dec 2009		As of Jun 2010		As of Dec 2010		As of Jun 2011	
	Number of Fire Areas	Number of Fire Areas w/ Comp Actions	Number of Fire Areas	Number of Fire Areas w/ Comp Actions	Number of Fire Areas	Number of Fire Areas w/ Comp Actions	Number of Fire Areas	Number of Fire Areas w/ Comp Actions	Number of Fire Areas	Number of Fire Areas w/ Comp Actions
A	150	3	150	3	150	9	150	9	150	6
B	50	7	50	7	50	0	50	0	50	0
C	55	0	55	0	55	0	55	1	55	1
D	36	0	36	0	36	0	36	0	36	0
E	54	2	54	2	54	0	54	0	54	0
F	57	4	57	4	57	5	57	4	57	5
G	11	2	11	0	11	0	11	0	11	0
H	25	0	25	0	25	0	25	0	25	0
I	23	4	23	4	23	4	23	5	23	2
J	58	0	58	0	58	0	58	0	58	0
K	92	1	92	0	92	0	92	0	92	0
L	26	1	26	1	26	0	26	0	26	0
M	162	0	162	0	162	8	162	8	162	8
N	172	0	172	0	172	8	172	8	172	0
O	32	0	32	0	32	0	32	0	32	0
P	15	0	15	0	15	0	15	0	15	0
Q	144	0	144	0	144	0	144	0	144	0
R	138	0	138	0	138	0	138	0	138	0
T	57	0	57	0	57	0	57	0	57	0
S	47	0	47	0	47	0	47	0	47	0
U	26	0	26	0	26	0	26	0	26	0
V	62	0	62	0	62	0	62	0	62	0
W	41	1	41	0	41	0	41	0	41	0
X	58	0	58	1	58	0	58	0	58	0
Y	90	0	90	0	90	1	100	2	94	1
Z	66	0	66	4	66	2	82	3	82	3
AA	152	4	152	4	152	0	152	0	152	0
BB	150	0	150	0	150	0	150	0	150	1
CC	118	0	118	0	118	0	118	0	118	0
DD	80	0	80	1	80	0	80	0	80	0
EE	109	18	109	18	109	18	109	14	109	1
Total	2356	47	2356	49	2356	55	2382	54	2376	28

Acronyms

1. 10 CFR – Title 10 Code of Federal Regulations
2. A/Q – Annual/Quarterly
3. AV – Apparent Violation
4. CD – Cool Down Mode
5. EAL – Emergency Action Level
6. EN – Event Notification
7. HSB – Hot Shutdown Mode
8. IMC – Inspection Manual Chapter
9. INL – Idaho National Laboratory
10. IR – Inspection Report
11. LER – Licensee Evaluation Report
12. NCV – No cited Violation
13. NEI – Nuclear Energy Institute
14. NFPA – National Fire Protection Association
15. NPP – Nuclear power Plants
16. NRC – Nuclear Regulatory Commission
17. PI&R - Problem Identification and Resolution
18. PO – Power generation Mode
19. RES – Office of Regulatory Research
20. RF – Refueling Mode
21. SDP – Significant Determination Process
22. SRA- Senior Reactor Analyst
23. TR – Triennial Report
24. URI – Unresolved Item

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APPENDIX A: FIRE EVENTS REPORTED VIA 10 CFR 50.72/73

Table A-1: Fire events reported via 10 CFR 50.72/73 from 1990 to 2011 (2 Qtrs)

Source Document Number	Event Date	Mode	Power	Plant Name	Plant Area	EN Number	NOUE or Alert Declared?
46985	6/25/2011	PO	100	NINE MILE POINT 1	Switchgear Room	46985	Y
46932	6/7/2011	CD	0	FORT CALHOUN	Switchgear Room	46932	Y
46813	5/3/2011	PO	100	DUANE ARNOLD	Hydrogen Storage	46813	Y
46704	3/29/2011	RF	0	NINE MILE POINT 1	Drywell	46704	Y
46551	1/19/2011	PO	100	DAVIS BESSE	Containment Access	46551	Y
46492	12/20/2010	PO	100	Sequoyah 1	Isophase bus duct	46492	Y
46491	12/20/2010	PO	100	Vogtle	Fuel Handling Bldg	46491	Y
46400	11/7/2010	PO	100	Indian Point 2	Transformer Yard	46400	Y
46270	9/22/2010	PO	85	Sequoyah 1/2	Transformer Yard	46270	Y
2802010003	6/8/2010	PO	100	SURRY 1	Control Room		N
3132010003	4/18/2010	PO	11	ARKANSAS 1	Turbine Bldg	45854	N
2612010002	3/28/2010	RF	99	ROBINSON	Turbine Bldg	45799	Y
45798	3/28/2010	PO	100	PERRY	Turbine Bldg	45798	Y
45796	3/26/2010	RF	0	BRUNSWICK 1	Turbine Bldg	45796	Y
45618	1/9/2010	PO	100	BRAIDWOOD 1	Auxiliary Bldg	45618	Y
45565	12/12/2009	PO	100	FARLEY 1	Auxiliary Bldg	45565	Y
45515	11/22/2009	CD	0	SUMMER	Switchgear Room	45515	Y
45428	10/12/2009	RF	0	COOPER STATION	Turbine Bldg	45428	Y
45245	8/5/2009	PO	100	COLUM. NUCLEAR 2	Turbine Bldg	45245	Y
3972009003	6/26/2009	PO	73	COLUM. NUCLEAR 2	Turbine Bldg	45169	Y

Table A-1: Fire events reported via 10 CFR 50.72/73 from 1990 to 2011 (2 Qtrs)

Source Document Number	Event Date	Mode	Power	Plant Name	Plant Area	EN Number	NOUE or Alert Declared?
45013	4/22/2009	PO	100	NORTH ANNA 1	Cable Spreading Room	45013	Y
3132009002	2/7/2009	PO	90	ARKANSAS 1	Turbine Bldg	44837	Y
2192009001	2/1/2009	PO	100	OYSTER CREEK 1	Transformer Yard	44822	Y
44662	11/17/2008	PO	100	GRAND GULF 1	Turbine Bldg	44662	Y
3152008006	9/20/2008	PO	100	COOK 1	Turbine Bldg	44507	Y
3232008001	8/16/2008	PO	100	DIABLO CANYON 2	Transformer Yard	44419	Y
43742	10/23/2007	PO	100	ARKANSAS 2	Auxiliary Bldg	43742	Y
43541	8/1/2007	PO	100	HATCH 1	Transformer Yard	43541	Y
43320	4/25/2007	PO	100	MCGUIRE 2	Hydrogen Storage	43320	Y
3972007003	4/8/2007	PO	100	COLUM. NUCLEAR 2	Switchgear Room	43290	Y
2862007002	4/6/2007	PO	92	INDIAN POINT 3	Main Transformer	43285	Y
43279	4/5/2007	RF	0	CALLAWAY 1	Auxiliary Bldg	43279	Y
43189	2/27/2007	PO	100	PEACH BOTTOM 3	Turbine Bldg	43189	Y
3232006004	12/12/2006	PO	25	DIABLO CANYON 2	Intake Structure	43047	Y
42985	11/11/2006	RF	0	COOPER STATION	Refuel Floor	42985	Y
3682006001	10/30/2006	PO	67	ARKANSAS 2	Auxiliary Bldg	42949	Y
42779	8/15/2006	PO	98	PEACH BOTTOM 2/3	Diesel Gen Bldg	42779	Y
42605	5/24/2006	PO	100	VERMONT YANKEE	Turbine Bldg	42605	Y
42537	5/1/2006	PO	100	HATCH 1	Isophase bus duct	42537	Y
42431	3/20/2006	PO	82	COOPER STATION	Water Treatment	42431	Y
42374	2/24/2006	PO	100	BYRON 1	Auxiliary Bldg	42374	Y
42330	2/11/2006	PO	100	PERRY	Switchgear Room	42330	Y

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Source Document Number	Event Date	Mode	Power	Plant Name	Plant Area	EN Number	NOUE or Alert Declared?
3212005002	10/29/2005	PO	100	HATCH 1	Transformer Yard	42096	Y
42078	10/25/2005	HSB	0	TURKEY POINT 3	Turbine Bldg	42078	Y
3952005003	8/25/2005	PO	100	SUMMER	Turbine Bldg	41946	Y
2512005002	6/27/2005	PO	100	TURKEY POINT 4	Transformer Yard	41800	Y
41665	5/4/2005	RF	0	SUMMER	Reactor Bldg	41665	Y
41462	3/4/2005	RF	0	SUSQUEHANNA 2	Turbine Bldg	41462	Y
41333	1/14/2005	PO	100	MILLSTONE	Turbine Bldg	41333	Y
2502004006	12/14/2004	PO	100	TURKEY POINT 3	Turbine Bldg	41257	N
41176	11/6/2004	RF	0	SURRY	Turbine Bldg	41176	Y
2552004001	8/31/2004	PO	95	PALISADES	AuxiliaryBldg	41002	N
2712004003	6/18/2004	PO	100	VERMONT YANKEE	Transformer Yard	40827	Y
2812004001	5/21/2004	PO	100	SURRY 2	Transformer Yard	40768	Y
40428	1/6/2004	PO	100	HATCH 1	Refuel Floor	40428	Y
2982003006	10/28/2003	PO	75	COOPER STATION	Switch Yard	40281	N
40254	10/16/2003	PO	100	COOPER STATION	Turbine Bldg	40254	Y
2862003002	4/29/2003	PO	59	INDIAN POINT 3	Turbine Bldg	39807	Y
39799	4/26/2003	PO	100	ROBINSON	Intake Structure	39799	Y
39741	4/7/2003	RF	0	CALVERT CLIFFS 2	Containment	39741	Y
39678	3/18/2003	RF	0	PALISADES	Cable Spreading Room	39678	Y
3152003001	1/15/2003	PO	100	COOK 1	Transformer Yard	39513	Y
39260	10/9/2002	PO	100	SEABROOK	Intake Structure	39260	Y
3872002006	10/3/2002	PO	100	SUSQUEHANNA 1	Transformer Yard	39241	Y
3702002002	8/22/2002	PO	100	MCGUIRE 2	Turbine Bldg	39145	Y
39140	8/21/2002	PO	100	FARLEY 1	Service Water Bldg	39140	Y
3152002006	6/12/2002	PO	69	COOK 1	Switch Yard	38983	Y
2822001005	8/3/2001	PO	25	PRAIRIE ISLAND 1	Switchgr Room	38185	Y

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Source Document Number	Event Date	Mode	Power	Plant Name	Plant Area	EN Number	NOUE or Alert Declared?
2652001001	8/2/2001	PO	100	QUAD CITIES 2	Transformer Yard	38181	Y
38091	6/25/2001	PO	100	COOPER STATION	Transformer Yard	38091	Y
37941	4/24/2001	RF	0	POINT BEACH 1	Containment	37941	Y
37897	4/6/2001	PO	100	BEAVER VALLEY 2	Auxiliary Bldg	37897	Y
37855	3/21/2001	PO	100	FERMI	Diesel Gen Bldg	37855	Y
3622001001	2/3/2001	PO	99	SAN ONOFRE 3	Switchgear Room	37713	Y
37513	11/10/2000	PO	100	PILGRIM	Radwaste Bldg	37513	Y
37430	10/14/2000	PO	100	BRUNSWICK 2	Turbine Bldg	37430	Y
3242000002	9/22/2000	PO	100	BRUNSWICK 2	Transformer Yard	37364	Y
4822000003	9/4/2000	PO	100	WOLF CREEK	Transformer Yard	37287	N
37286	9/3/2000	RF	0	INDIAN POINT 2	Containment	37286	Y
2752000004	5/15/2000	PO	100	DIABLO CANYON 1	Switchgear Room	37001	Y
3382000004	5/7/2000	PO	100	NORTH ANNA 1	Turbine Bldg	36978	N
2801999007	10/9/1999	PO	100	SURRY 1	Transformer Yard	36277	N
35916	7/13/1999	PO	100	GINNA	Auxiliary Bldg	35916	Y
35736	5/18/1999	RF	0	PILGRIM	Transformer Yard	35736	Y
3331999001	1/14/1999	PO	100	FITZPATRICK	Hydrogen Storage	35262	Y
2821999001	1/5/1999	PO	100	PRAIRIE ISLAND 1	Transformer Yard	35215	Y
34900	10/10/1998	RF	0	FERMI 2	Rad Waste	34900	Y
34889	10/8/1998	RF	0	FERMI 2	Diesel Gen Bldg	34889	Y
34375	6/10/1998	PO	100	TURKEY POINT 4	Power Block	34375	Y
12396	5/27/1998	RF	0	DRESDEN 3	Reactor Building	12396	Y
2821997014	10/28/1997	CD	0	PRAIRIE ISLAND 1	Turbine Bldg (Evac)	33159	Y
33059	10/9/1997	PO	100	LIMERICK 2	Diesel Gen Bldg	33059	Y
2191997010	8/1/1997	PO	99	OYSTER CREEK	Turbine Bldg	N	N
31884	3/4/1997	CD	0	TURKEY POINT 3	Control Bldg	31884	Y
2751996017	11/22/1996	PO	100	DIABLO CANYON 1	Transformer Yard	N	N

Table A-1: Fire events reported via 10 CFR 50.72/73 from 1990 to 2011 (2 Qtrs)

Source Document Number	Event Date	Mode	Power	Plant Name	Plant Area	EN Number	NOUE or Alert Declared?
31353	11/19/1996	PO	100	COOPER	Outside Turbine Bldg	31353	Y
31173	10/17/1996	HSB	0	ARKANSAS 1	Containment (PWR)	31173	Y
2491996016	10/15/1996	PO	80	DRESDEN 3	Diesel Gen Bldg	N	N
31101	10/5/1996	PO	100	SEQUOYAH	Switchyard	31101	Y
30894	8/19/1996	PO	100	CLINTON	Reactor Bldg	30894	Y
3271996006	6/23/1996	PO	100	SEQUOYAH 1	Switch Yard	30667	Y
30460	5/13/1996	PO	100	ROBINSON 2	Chemistry Bldg	30460	Y
2931996005	4/19/1996	PO	22	PILGRIM	Turbine Bldg	N	N
5281996001	4/4/1996	RF	0	PALO VERDE 1	Control Room	30236	Y
30186	3/27/1996	RF	0	LASALLE 1	Turbine Bldg	30186	N
30169	3/25/1996	PO	100	COOPER	Rad Waste	30169	Y
30048	2/29/1996	CD	0	BIG ROCK POINT	Turbine Bldg	30048	Y
29939	2/5/1996	RF	0	PERRY	Transformer Yard	29939	Y
29883	1/24/1996	RF	0	SALEM 2	Auxiliary Bldg	29883	Y
29696	12/10/1995	PO	100	LIMERICK	Diesel Gen Bldg	29696	Y
2751995014	10/21/1995	RF	0	DIABLO CANYON 1	Transformer Yard	29491	Y
29226	8/22/1995	RF	0	COOK 1	Auxiliary Bldg	29226	Y
3821995002	6/10/1995	PO	100	WATERFORD 3	Turbine Bldg	28923	Y
4231995012	6/1/1995	HSB	0	MILLSTONE 3	Contmnt	28878	Y
3181995004	4/14/1995	RF	0	CALVERT CLIFFS 2	Auxiliary Bldg	28681	Y
28459	3/1/1995	PO	75	CLINTON	Reactor Bldg	28459	Y
3351994007	10/26/1994	PO	100	ST. LUCIE 1	Switch Yard	N	N
2931994005	8/29/1994	PO	100	PILGRIM	Switch Yard	N	N
2771994007	8/10/1994	PO	80	PEACH BOTTOM 2	Reactor Bldg	27654	Y
27605	7/29/1994	PO	87	BIG ROCK POINT	Turbine Bldg	27605	Y
27519	7/11/1994	PO	100	HADDAM NECK	Containment (PWR)	27519	Y
2951994010	7/2/1994	PO	100	ZION 1	Turbine Bldg	27477	Y
3341994005	6/21/1994	PO	100	BEAVER VALLEY 1	Switch Yard	N	N

Table A-1: Fire events reported via 10 CFR 50.72/73 from 1990 to 2011 (2 Qtrs)

Source Document Number	Event Date	Mode	Power	Plant Name	Plant Area	EN Number	NOUE or Alert Declared?
27397	6/15/1994	CD	0	OCONEE 1	Turbine Bldg	27397	Y
27355	6/6/1994	PO	100	ROBINSON 2	Diesel Gen Bldg	27355	Y
2951994005	4/3/1994	PO	25	ZION 1	Turbine Bldg	27036	Y
2801994001	2/3/1994	RF	0	SURRY 1	Contmnt (Evac)	N	N
26709	1/29/1994	CD	0	FERMI 2	Turbine Bldg	26709	Y
3411993014	12/25/1993	PO	93	FERMI 2	Turbine Bldg	26536	Y
26299	11/2/1993	PO	100	SALEM 2	Turbine Bldg	26299	Y
26244	10/21/1993	PO	40	ARKANSAS 1	Turbine Bldg	26244	Y
26218	10/13/1993	RF	0	SALEM 1	Auxiliary Bldg	26218	Y
2611993010	8/16/1993	PO	100	ROBINSON 2	Diesel Gen Bldg	25927	Y
25839	7/27/1993	PO	100	NINE MILE POINT 2	Rad Waste	25839	N
3271993020	6/19/1993	RF	0	SEQUOYAH 1	Auxiliary Bldg	N	N
25029	2/5/1993	PO	100	DIABLO CANYON 1	Cable Spreading Room	25029	Y
3171992008	11/24/1992	PO	100	CALVERT CLIFFS 1	Turbine Bldg	N	N
3051992017	9/15/1992	PO	100	KEWAUNEE	Switch Yard	N	N
3281992012	9/4/1992	PO	100	SEQUOYAH 2	Transformer Yard	24176	Y
3891992006	8/10/1992	PO	73	ST. LUCIE 2	Turbine Bldg	N	N
23988	8/4/1992	PO	100	CRYSTAL RIVER 3	Auxiliary Bldg	23988	Y
23956	7/29/1992	PO	95	NORTH ANNA 1	Intake structure	23956	Y
23854	7/13/1992	PO	93	LIMERICK 1	Reactor Bldg	23854	Y
23791	7/4/1992	PO	95	PEACH BOTTOM 3	Transformer Yard	23791	Y
4431992010	7/3/1992	PO	100	SEABROOK	Other Bldg	23787	Y
3311992010	6/17/1992	PO	100	DUANE ARNOLD	Serv Wtr Pumphse	N	N
23513	5/22/1992	CD	0	CLINTON	Rad Waste	23513	Y
2191992005	5/3/1992	PO	99	OYSTER CREEK	Offsite near switchyard	23394	Y
2491992010	3/21/1992	CD	0	DRESDEN 3	Reactor Bldg	N	N
22247	11/15/1991	HSB	0	PALO VERDE 3	Transformer Yard	22247	Y

Table A-1: Fire events reported via 10 CFR 50.72/73 from 1990 to 2011 (2 Qtrs)

Source Document Number	Event Date	Mode	Power	Plant Name	Plant Area	EN Number	NOUE or Alert Declared?
3111991017	11/9/1991	PO	100	SALEM 2	Turbine Bldg	22209	Y
22139	11/1/1991	PO	100	ARKANSAS 1	Warehouse in protected area	22139	Y
3741991008	8/11/1991	PO	91	LASALLE 2	Reactor Bldg	21592	Y
3161991006	8/1/1991	PO	97	COOK 2	Switch Yard	21517	Y
3411991015	6/27/1991	PO	100	FERMI 2	Switch Yard	N	N
21205	6/16/1991	PO	75	YANKEE ROWE	Transformer Yard	21205	Y
3091991005	4/29/1991	PO	100	MAINE YANKEE	Turbine Bldg	20911	Y
3681991007	2/23/1991	HSB	0	ARKANSAS 2	Switchgr Room	20520	Y
20305	1/23/1991	PO	100	BYRON 2	Outside Turbine Bldg	20305	Y
3211991001	1/16/1991	PO	100	HATCH 1	Switch Yard	N	N
2611991003	1/14/1991	RF	0	ROBINSON 2	Contmnt	N	N
20251	1/11/1991	PO	100	PILGRIM	Turbine Bldg	20251	Y
3741990014	12/22/1990	PO	80	LASALLE 2	Reactor Bldg	20129	Y
20109	12/19/1990	PO	100	SOUTH TEXAS 2	Turbine Bldg	20109	Y
3251990026	12/3/1990	RF	0	BRUNSWICK 1	Reactor Bldg	19990	Y
3041990011	9/22/1990	PO	39	ZION 2	Switch Yard	19445	Y
19200	8/25/1990	PO	100	WATERFORD 3	Switch Yard	19200	Y
19043	8/4/1990	CD	0	SAN ONOFRE 2	Rad Waste	19043	Y
18886	7/13/1990	CD	0	COOK 2	Auxiliary Bldg	18886	Y
18786	6/28/1990	RF	0	CATAWBA 2	Containment (PWR)	18786	Y
3211990012	6/10/1990	PO	25	HATCH 1	Offgas Treatmnt Bldg	18673	Y
3971990012	5/27/1990	CD	0	WASH. NUCLEAR2	Diesel Gen Bldg	18581	Y
18562	5/24/1990	PO	70	COOK 1	Switchyard	18562	Y
18194	4/10/1990	CD	0	FT SAINT VRAIN	Turbine Bldg	18194	Y
3531990007	3/30/1990	CD	0	LIMERICK 2	Reactor Bldg	N	N
3311990001	3/15/1990	PO	50	DUANE ARNOLD	Switchyard	N	N

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Source Document Number	Event Date	Mode	Power	Plant Name	Plant Area	EN Number	NOUE or Alert Declared?
2371990002	1/16/1990	PO	99	DRESDEN 2	Turbine Bldg	N	N
17477	1/3/1990	PO	100	MCGUIRE	Service Building	17477	Y
3411989038	12/23/1989	PO	40	FERMI 2	Turbine Building	17417	N
3241989020	12/17/1989	RF	0	BRUNSWICK 2	Reactor Building	17371	N
17325	12/12/1989	PO	94	BYRON 1	Turbine Building	17325	Y
17246	12/1/1989	CD	0	SAN ONOFRE 2	Rad Waste	17246	N
2981989026	11/25/1989	PO	100	COOPER	Turbine Building		N
17148	11/19/1989	SU	10	WATERFORD 3	Transformer Yard	17148	Y
16921	10/24/1989	RF	0	FERMI 2	Containment	16921	Y
4001989017	10/9/1989	PO	100	HARRIS 1	Turbine Building	16805	Y
16573	9/12/1989	CD	0	SUMMER 1	Auxiliary Building	16573	N
5281989015	9/1/1989	RD	0	PALO VERDE 1	Switchyard		N
15922	6/21/1989	CD	0	MILLSTONE 3	Containment	15922	Y
15697	5/23/1989	CD	0	TROJAN 1	Auxiliary Building	15697	N
15461	4/27/1989	PO	100	BRUNSWICK 2	Service Water Pumphouse	15461	Y
5281989004	3/5/1989	PO	100	PALO VERDE 1	Turbine Building	14938	N
15922	6/21/1989	CD	0	MILLSTONE 3	Containment	15922	Y
15697	5/23/1989	CD	0	TROJAN 1	Auxiliary Building	15697	N
15461	4/27/1989	PO	100	BRUNSWICK 2	Service Water Pumphouse	15461	Y
5281989004	3/5/1989	PO	100	PALO VERDE 1	Turbine Building	14938	N
3181989004	3/1/1989	PO	100	CALVERT CLIFFS 2	Control Room	14893	N
14622	2/2/1989	PO	83	VERMONT YANKEE 1	Switchgear room	14622	Y
14541	1/20/1989	PO	100	SOUTH TEXAS 1	Turbine Building	14541	Y
2611989001	1/7/1989	RF	0	ROBINSON	Turbine Building		N
2691989002	1/3/1989	PO	25	OCONEE 1	Switchgear room	14399	Y
4101988062	12/26/1988	CD	0	NINE MILE POINT 2	Switchyard	14346	Y

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Source Document Number	Event Date	Mode	Power	Plant Name	Plant Area	EN Number	NOUE or Alert Declared?
14094	11/27/1988	RF	0	WOLF CREEK	Diesel Gen Bldg	14094	Y
4611988028	11/11/1988	PO	88	CLINTON 1	Transformer Yard	13970	Y
13775	10/20/1988	HSB	0	SEQUOYAH 1	Turbine Building	13775	Y
13377	9/4/1988	PO	70	PERRY	Offgas Charcoal Beds	13377	Y
13074	8/2/1988	CD	0	PILGRIM	Circulating Water Pumphouse	13074	N
2771988020	7/29/1988	CD	0	PEACH BOTTOM 2	Transformer Yard		N
12942	7/24/1988	PO	99	BRUNSWICK 1	Diesel Gen Bldg	12942	Y
12916	7/21/1988	PO	100	BRUNSWICK 2	Turbine Building	12916	Y
3231988008	7/17/1988	PO	100	DIABLO CANYON 2	Transformer Yard	12870	Y
5281988010	7/6/1988	PO	100	PALO VERDE 1	Transformer Yard	12727	Y
12364	5/24/1988	CD	0	SURRY 2	Containment	12364	Y
11698	3/9/1988	PO	100	BRUNSWICK 1	Rad Waste	11698	Y
3051988001	3/2/1988	PO	93	KEWAUNEE	Switchgear room		N
4161988009	2/27/1988	PO	100	GRAND GULF 1	Offgas Charcoal Beds		N
11488	2/11/1988	CD	0	PILGRIM	Machine Shop	11488	Y
11455	2/8/1988	CD	0	RANCHO SECO 1	Switchgear room	11455	N
11389	2/1/1988	PO	100	CALVERT CLIFFS 2	Cable Spreading Room	11389	Y
11357	1/28/1988	CD	0	BEAVER VALLEY 2	Control Room	11357	Y
3891987008	11/28/1987	HSB	0	SAINT LUCIE 2	Containment	10809	Y
2541987023	11/11/1987	RF	0	QUAD CITIES 1	Fire Pump House		N
10542	11/2/1987	RF	0	BROWNS FERRY 2	Containment	10542	Y
4121987030	10/16/1987	PO	97	BEAVER VALLEY 2	Turbine Building	10363	N
4821987048	10/14/1987	RF	0	WOLF CREEK	Switchgear room		Y
10306	10/13/1987	PO	20	HOPE CREEK 1	Transformer Yard	10306	Y
2671987023	10/3/1987	PO	26	FT SAINT VRAIN	Turbine Building	10200	Y

Table A-1: Fire events reported via 10 CFR 50.72/73 from 1990 to 2011 (2 Qtrs)

Source Document Number	Event Date	Mode	Power	Plant Name	Plant Area	EN Number	NOUE or Alert Declared?
10052	9/19/1987	CD	0	SEQUOYAH 1	Aux Boiler	10052	Y
8180	3/27/1987	PO	50	ZION 1	Turbine Building	8180	Y
8102	3/19/1987	PO	54	LASALLE 1	Transformer Yard	8102	N
8046	3/14/1987	PO	50	PALO VERDE 2	Turbine Building	8046	Y
7947	3/4/1987	PO	100	PEACH BOTTOM 3	Turbine Building	7947	Y
7785	2/16/1987	PO	55	MCGUIRE 1	Turbine Building	7785	Y
7714	2/8/1987	CD	0	PALO VERDE 2	Diesel Gen Bldg	7714	Y
7643	1/31/1987	RF	0	BIG ROCK POINT 1	Switchgear room	7643	Y
7364	1/2/1987	PO	30	DIABLO CANYON 1	Turbine Building	7364	Y
3461987001	1/1/1987	PO	40	DAVIS BESSE 1	Turbine Building		N
3411986026	8/6/1986	SU	1	FERMI	Reactor Building	5792	Y
2601986011	7/24/1986	RF	0	BROWNS FERRY 1	Reactor Building	5622	N
5147	6/20/1986	CD	0	PERRY	Offgas Charcoal Beds	5147	Y
4579	5/10/1986	CD	0	BROWNS FERRY 1	Cooling Tower	4579	N
2771986010	4/13/1986	PO	100	PEACH BOTTOM 2	Transformer Yard	4207	N
4077	3/31/1986	PO	96	DRESDEN 2	Intake Structure	4077	Y
3642	2/11/1986	PO	72	COLUMBIA 2	Circulating Water Pumphouse	3642	N
3161986005	2/1/1986	PO	80	COOK 2	Transformer Yard	3539	Y
3290	1/9/1986	PO	77	PILGRIM	Turbine Building	3290	Y
2705	11/10/1985	PO	100	PEACH BOTTOM 2	Rad Waste	2705	N
2616	11/2/1985	RF	0	PEACH BOTTOM 3	Reactor Building	2616	N
2394	10/12/1985	RF	0	RIVER BEND	Switchyard	2394	Y
2135	9/20/1985	PO	98	PALISADES	Aux Building	2135	Y
2119	9/19/1985	PO	100	CALVERT CLIFFS 1	Diesel Gen Bldg	2119	N
3611985046	9/12/1985	PO	100	SAN ONOFRE 2	Turbine Building	2060	Y
2891985002	9/7/1985	HSB	0	THREE MILE ISLAND 1	Control Building	2002	N

Table A-1: Fire events reported via 10 CFR 50.72/73 from 1990 to 2011 (2 Qtrs)

Source Document Number	Event Date	Mode	Power	Plant Name	Plant Area	EN Number	NOUE or Alert Declared?
1861	8/24/1985	HSB	0	SAINT LUCIE 2	Containment	1861	Y
1587	7/26/1985	PO	97	BRUNSWICK 2	Cable Tunnel	1587	Y
1600	7/26/1985	CD	0	BROWNS FERRY 3	Switchgear room	1600	Y
1449	7/14/1985	PO	100	WATERFORD 3	Turbine Building	1449	N
3971985046	6/29/1985	PO	20	COLUMBIA 2	Turbine Building	1286	Y
1250	6/26/1985	PO	91	WATERFORD 3	Turbine Building	1250	Y
1099	6/10/1985	PO	100	TURKEY POINT 4	Diesel Gen Bldg	1099	Y
941	5/27/1985	PO	100	ROBINSON	Diesel Gen Bldg	941	Y
666	5/2/1985	CD	0	BRUNSWICK 1	Reactor Building	666	N
563	4/23/1985	CD	0	PALO VERDE 1	Switchyard	563	Y
384	4/9/1985	PO	100	SAN ONOFRE 3	Turbine Building	384	N
335	4/4/1985	PO	100	MILLSTONE 1	Rad Waste	335	Y
225	3/23/1985	CD	0	BROWNS FERRY 1	Rad Waste	225	Y
109	3/12/1985	PO	100	HADDAM NECK	Switchgear room	109	Y
5	2/27/1985	PO	100	ROBINSON	Transformer Yard	5	N

APPENDIX B: FIRE PROTECTION FINDINGS

B.1 Triennial Fire Protection Inspection Procedures 71111.05

Triennial Fire Protection Inspection Findings were determined using the following search criteria in the Dynamic Webpage:

(http://nrr10.nrc.gov/nrr-office/rps/dyn/rop_ir1_select.cfm):

1. Site: ALL
2. Dates: 01/01/1999- 08/01/2010
3. Procedures:
 - a. 7111105T (Fire protection [Triennial]);
 - b. 7111105P (Fire Protection NFPA805 Transitional Period [Triennial])
4. Cornerstones: ALL
5. Significance: ALL
6. Item Types: ALL
7. Leave blank
8. Status: ALL
9. ROP: PIM and Non-PIM
10. Draft: no
11. Sort: generally findings were sorted by site
12. Page Format: Summary
13. Cross Counting Issues: box left unchecked

The results of this search were then copied into an Excel Spreadsheet. The results were verified by opening the triennial inspection reports.

RES staff did a comprehensive reading of some inspection reports because sometimes the URI did not have the same title as the NCV for that URI.

B.1.2 Triennial Fire Protection Inspections Dates and Inspection Reports Numbers

Table B-1: Triennial Fire Protection Inspections dates and inspection report numbers for round 1 and round 2

Plant Name	Acronym	Region	Docket Number	NFPA 805	Inspection (Round 1)	Inspection Report Number (Round 1)	Inspection (Round 2)	Inspection Report Number (Round 2)
Arkansas Nuclear One 1/2	ANO	4	5000313	Dec-05	6/22/2001	2001006	9/27/2004	2004010
Beaver Valley 1/2	BV	1	5000334/412	Dec-05	6/8/2001	2001005	1/30/2004	2004002
Braidwood	BRAI	3	5000456/457		6/16/2000	2000006	7/11/2003	2003005
Browns Ferry	BF	2	5000259/260/296	Mar-09	6/30/2000	2000008	10/3/2003	2003007
Brunswick 1/2	BRU	2	5000324/325	Oct-08	5/11/2001	2001006	11/19/2004	2004010
Byron	BYRO	3	5000454/455		12/14/2001	2001012	7/9/2004	2004005
Callaway	CALL	4	5000483	Dec-05	9/26/2000	2000013	10/21/2003	2003007
Calvert Cliffs 1/2	CALV	1	5000317/318	Apr-07	9/14/2001	2001007	5/28/2004	2004003
Catawba 1/2	CAT	2	5000413/414	Jul-07	8/10/2001	2001008	6/25/2004	2004007
Clinton	CLIN	3	5000461		3/15/2002	2002002	5/20/2005	2005006
Columbia Generating Station	WNP	4	5000397		5/5/2000	2000007	4/22/2003	2003002

Table B-1: Triennial Fire Protection Inspections dates and inspection report numbers for round 1 and round 2

Plant Name	Acronym	Region	Docket Number	NFPA 805	Inspection (Round 1)	Inspection Report Number (Round 1)	Inspection (Round 2)	Inspection Report Number (Round 2)
Comanche Peak	CP	4	5000445/446		2/8/2002	2002003	5/17/2005	2005008
Cooper	CNS	4	5000298	Dec-05	4/6/2001	2001003	4/23/2004	2004008
Crystal River 3	CR	2	5000302	Feb-07	7/12/2002	2002005	1/28/2005	2004009
Davis Besse	DAVI	3	5000346	Mar-07	10/25/2004	2004009	4/5/2007	2007006
D.C. Cook 1/2	COOK	3	5000315/316	Dec-05	4/11/2003	2003005	2/10/2006	2006002
Diablo Canyon 1/2	DIAB	4	5000275/323	Dec-05	4/7/2000	2000003	3/18/2003	2003002
Dresden	DRES	3	5000237/249		5/10/2002	2002006	4/1/2005	2005002
Duane Arnold	DUAN	3	5000331	Jul-06	5/12/2003	2003002	11/15/2006	2006014
Farley 1/2	FAR	2	5000348/364	Feb-08	10/25/2002	2002006	4/8/2005	2005006
Fermi 2	FERM	3	5000341		12/6/2002	2002008	7/15/2005	2005006
Fitzpatrick	FITZ	1	5000333		4/26/2002	2002002	3/31/2005	2005002
Fort Calhoun	FCS	4	5000285	Jun-08	1/28/2000 pilot, 1/17/2003	2000001 2003002	11/10/2005	2005008
Ginna	GINN	1	5000244	Dec-05	11/17/2000	2000009	12/31/2003	2003013

Table B-1: Triennial Fire Protection Inspections dates and inspection report numbers for round 1 and round 2

Plant Name	Acronym	Region	Docket Number	NFPA 805	Inspection (Round 1)	Inspection Report Number (Round 1)	Inspection (Round 2)	Inspection Report Number (Round 2)
Grand Gulf	GG	4	5000416		9/17/2002	2002007	5/12/2005	2005008
Harris	HAR	2	5000400	Jun-05	12/20/99 Pilot, 12/20/02	1999013 2002011	9/2/2005	2005007
Hatch 1/2	HAT	2	5000321		8/25/2000	2000008	7/25/2003	2003006
H.B. Robinson 2	ROB	2	5000261	Aug-07	11/30/2001	2001008	9/3/2004	2004006
Hope Creek	HOPE	1	5000354		1/26/2001	2001002	10/7/2004	2004010
Indian Point 2	INPT	1	5000247		4/13/2001	2000004	7/19/2004	2004005
Indian Point 3	INP3	1	5000286		2/21/2002	2001012	1/28/2005	2005006
Kewaunee	KEWA	3	5000305	Jul-08	2/13/2001	2001002	7/30/2004	2004005
LaSalle	LASA	3	5000373/374		6/22/2001	2001006	9/2/2005	2005006
Limerick	LIM	1	5000352/353		12/21/2001	2001014	10/21/2004	2004008
McGuire 1/2	MCG	2	5000369/370	Apr-08	11/3/2000	2000009	6/2/2003	2003007
Millstone 2	MILL	1	5000336		6/21/2002	2002009	6/24/2005	2005011
Millstone 3		1	5000423		11/2/2001	2001012	8/19/2004	2004012

Table B-1: Triennial Fire Protection Inspections dates and inspection report numbers for round 1 and round 2

Plant Name	Acronym	Region	Docket Number	NFPA 805	Inspection (Round 1)	Inspection Report Number (Round 1)	Inspection (Round 2)	Inspection Report Number (Round 2)
Monticello	MONT	3	5000263	Nov-05	6/21/2002	2002011	11/4/2005	2005013
Nine Mile Point 1/2	NMP	1	5000220/410	one-05/2006 two-04/2008	12/15/2000	2000009	6/20/2003	2003007
North Anna	NA	2	5000338/339		6/30/2000	2000007	7/2/2003	2003006
Oconee 1/2/3	OCO	2	5000269/270/287	Jun-05	2/8/2002, 2/18/2004 follow up inspection	2002003, 2004010 2004012 (just one inspection in 2004, but 2 reports)	6/23/2005	2005007
Oyster Creek	OC	1	5000219		1/10/2003	2002011	11/4/2005	2005008
Palisades	PALI	3	5000255	Nov-05	8/17/2001	2001008	1/28/2005	2005003
Palo Verde	PALO	4	5000528/529/530		6/16/2000	2000005	8/20/2003	2003007
Peach Bottom	PB	1	5000277/278		6/8/2000	2000003	4/25/2003	2003009
Perry	PERR	3	5000440		11/2/2000	2000010	12/5/2003	2003008

Table B-1: Triennial Fire Protection Inspections dates and inspection report numbers for round 1 and round 2

Plant Name	Acronym	Region	Docket Number	NFPA 805	Inspection (Round 1)	Inspection Report Number (Round 1)	Inspection (Round 2)	Inspection Report Number (Round 2)
Pilgrim	PILG	1	5000293		8/18/2000	2000004	7/31/2003	2003005
Point Beach 1/2	POIN	3	5000266/301	Nov-05	9/28/2001	2001012	11/19/2004	2004010
Prairie Island 1/2	PRAI	3	5000282/306	Nov-05	6/7/2001	2001005	5/5/2004	2004002
Quad Cities	QUAD	3	5000254/265		12/15/2000	2000016	10/24/2003	2003012
River Bend	RBS	4	5000458		6/4/2001	2001005	2/13/2004	2004007
Salem	SALM	1	5000272/311		12/7/1999	1999010	2/28/2003	2003002
San Onofre	SANO	4	5000361/362	Mar-08	11/9/2001	2001015	10/7/2004	2004008
Seabrook	SEAB	1	5000443		7/26/2002	2002009	7/29/2005	2005008
Sequoyah	SEQ	2	5000327/328		4/24/2002	2002003	11/18/2005	2005011
South Texas	STP	4	5000498/499		7/9/2002	2002003	6/23/2005	2005006
St. Lucie 1/2	STL	2	5000335/389	Dec-05	3/28/2003	2003002	10/20/2006	2006010
Surry	SUR	2	5000280/281		2/14/2003	2003007	6/30/2006	2006009
Susquehanna	SUSQ	1	5000387/388		8/30/2002	2002008	12/2/2005	2005009

Table B-1: Triennial Fire Protection Inspections dates and inspection report numbers for round 1 and round 2

Plant Name	Acronym	Region	Docket Number	NFPA 805	Inspection (Round 1)	Inspection Report Number (Round 1)	Inspection (Round 2)	Inspection Report Number (Round 2)
Three Mile Island	TMI	1	5000289		10/25/2002	2002011	12/15/2005	2005012
Turkey Point 3/4	TP	2	5000250/251	Nov-05	2/9/2001	2001002	3/26/2004	2004007
V.C. Summer	SUM	2	5000395	Oct-06	10/19/2001	2001009	7/30/2004	2004007
Vermont Yankee	VY	1	5000271		7/13/2001	2001003	12/17/2004	2004010
Vogtle 1/2	VOG	2	5000424/425		7/17/2001	2001004	9/20/2004	2004007
Waterford	WAT	4	5000382	Dec-05	10/26/2000	2000007	12/19/2003	2003011
Watts Barr	WB	2	5000390		12/8/2000	2000008	5/7/2004	2004006
Wolf Creek	WC	4	5000482		11/4/2002	2002008	12/29/2005	2005008

Table B-2: Triennial Fire Protection Inspections dates and inspection report numbers for round 3 and round 4

Plant Name	Acronym	Region	Docket Number	NFPA 805	Inspection (Round 3)	Inspection Report Number (Round 3)	Inspection (Round 4)	Inspection Report Number (Round 4)
Arkansas Nuclear One 1/2	ANO	4	5000313	Dec-05	10/19/2007	2007006	10/8/2010	2010006
Beaver Valley 1/2	BV	1	5000334/412	Dec-05	2/8/2007	2007007	9/15/2009	20090007
Braidwood	BRAI	3	5000456/457		6/30/2006	2006009	3/6/2009	2009006
Browns Ferry	BF	2	5000259/260/296	Mar-09	9/15/2006	2006014	10/9/2009	2009009
Brunswick 1/2	BRU	2	5000324/325	Oct-08	11/21/2008	2008009	2011	N/A
Byron	BYRO	3	5000454/455		12/7/2007	2007008	10/4/2010	N/A
Callaway	CALL	4	5000483	Dec-05	11/30/2006	2006008	2/26/2009	2009006
Calvert Cliffs 1/2	CALV	1	5000317/318	Apr-07	6/29/2007	2007009	12/17/2010	2010007
Catawba 1/2	CAT	2	5000413/414	Jul-07	8/3/2007	2007007	8/10/2010	2010006
Clinton	CLIN	3	5000461		7/25/2008	2008006	3/18/2011	2011009
Columbia Generating Station	WNP	4	5000397		7/13/2006	2006008	10/8/2009	2009006
Comanche Peak	CP	4	5000445/446		5/22/2008	2008006	5/3/2011	2011007

Table B-2: Triennial Fire Protection Inspections dates and inspection report numbers for round 3 and round 4

Plant Name	Acronym	Region	Docket Number	NFPA 805	Inspection (Round 3)	Inspection Report Number (Round 3)	Inspection (Round 4)	Inspection Report Number (Round 4)
Cooper	CNS	4	5000298	Dec-05	6/15/2007	2007008	11/5/2010	2010006
Crystal River 3	CR	2	5000302	Feb-07	2/15/2008	2008006	4/29/2011	2011009
Davis Besse	DAVI	3	5000346	Mar-07	6/3/2010	2010006	2013	N/A
D.C. Cook 1/2	COOK	3	5000315/316	Dec-05	11/20/2009	2009006	2012	N/A
Diablo Canyon 1/2	DIAB	4	5000275/323	Dec-05	2/16/2006	2006009	7/23/2009	2009008
Dresden	DRES	3	5000237/249		2/15/2008	2008006	2011	N/A
Duane Arnold	DUAN	3	5000331	Jul-06	10/6/2009	2009006	2012	N/A
Farley 1/2	FAR	2	5000348/364	Feb-08	4/4/2008	2008006	2011	N/A
Fermi 2	FERM	3	5000341		5/8/2008	2008006	2011	N/A
Fitzpatrick	FITZ	1	5000333		5/16/2008	2008006	2011	N/A
Fort Calhoun	FCS	4	5000285	Jun-08	8/15/2008	2008009	2011	N/A
Ginna	GINN	1	5000244	Dec-05	6/23/2006	2006007	11/20/2009	2009006
Grand Gulf	GG	4	5000416		7/1/2008	2008006	2011	N/A

Table B-2: Triennial Fire Protection Inspections dates and inspection report numbers for round 3 and round 4

Plant Name	Acronym	Region	Docket Number	NFPA 805	Inspection (Round 3)	Inspection Report Number (Round 3)	Inspection (Round 4)	Inspection Report Number (Round 4)
Harris	HAR	2	5000400	Jun-05	10/10/2008	2008008	2011	N/A
Hatch 1/2	HAT	2	5000321		4/21/2006	2006006	12/3/2010	2010009
H.B. Robinson 2	ROB	2	5000261	Aug-07	11/9/2007	2007007	8/11/2010	2010007
Hope Creek	HOPE	1	5000354		9/14/2006	2006014	5/19/2010	2010007
Indian Point 2	INPT	1	5000247		5/17/2007	2007006	5/7/2010	2010006
Indian Point 3	INP3	1	5000286		2/8/2008	2008007	5/27/2011	2011008
Kewaunee	KEWA	3	5000305	Jul-08	9/11/2008	2008008	2011	NA
LaSalle	LASA	3	5000373/374		11/21/2008	2008007	2011	NA
Limerick	LIM	1	5000352/353		8/9/2007	2007006	6/14/2010	2010006
McGuire 1/2	MCG	2	5000369/370	Apr-08	12/14/2006	2006008	5/14/2009	2009007
Millstone 2	MILL	1	5000336		12/5/2008	2008008	11/5/2010	2010008
Millstone 3		1	5000423		10/5/2007	2007007	11/5/2010	2010008
Monticello	MONT	3	5000263	Nov-05	4/18/2008	2008006	2011	2011008

Table B-2: Triennial Fire Protection Inspections dates and inspection report numbers for round 3 and round 4

Plant Name	Acronym	Region	Docket Number	NFPA 805	Inspection (Round 3)	Inspection Report Number (Round 3)	Inspection (Round 4)	Inspection Report Number (Round 4)
Nine Mile Point 1/2	NMP	1	5000220/410	one-05/2006 two-04/2008	5/25/2006	2006006	6/19/2009	2009006
North Anna	NA	2	5000338/339		2/10/2006	2005008	11/12/2009	2009008
Oconee 1/2/3	OCO	2	5000269/270/287	Jun-05	8/14/2008	2008007	2011	NA
Oyster Creek	OC	1	5000219		6/26/2008	2008008	4/1/2011	2011007
Palisades	PALI	3	5000255	Nov-05	5/25/2007	2007005	9/20/2010	2010008
Palo Verde	PALO	4	5000528/529/530		8/17/2007	2007008	4/23/2010	2010006
Peach Bottom	PB	1	5000277/278		2/10/2006	2006006	4/3/2009	2009006
Perry	PERR	3	5000440		12/15/2006	2006006	6/26/2009	2009007
Pilgrim	PILG	1	5000293		8/11/2006	2006009	10/1/2009	2009007
Point Beach 1/2	POIN	3	5000266/301	Nov-05	7/13/2007	2007006	7/8/2010	2010008
Prairie Island 1/2	PRAI	3	5000282/306	Nov-05	8/18/2006	2006009	4/24/2009	2009007
Quad Cities	QUAD	3	5000254/265		5/12/2006	2006002	9/10/2009	2009006

Table B-2: Triennial Fire Protection Inspections dates and inspection report numbers for round 3 and round 4

Plant Name	Acronym	Region	Docket Number	NFPA 805	Inspection (Round 3)	Inspection Report Number (Round 3)	Inspection (Round 4)	Inspection Report Number (Round 4)
River Bend	RBS	4	5000458		2/15/2007	2007006	6/17/2010	2010006
Salem	SALM	1	5000272/311		4/10/2006	2006007	2/13/2009	2009006
San Onofre	SANO	4	5000361/362	Mar-08	7/15/2007	2007008	9/30/2010	2010007
Seabrook	SEAB	1	5000443		7/31/2008	2008008	2011	NA
Sequoyah	SEQ	2	5000327/328		6/27/2008	2008006	2/11/2011	2011006
South Texas	STP	4	5000498/499		7/24/2008	2008008	2011	NA
St. Lucie 1/2	STL	2	5000335/389	Dec-05	4/30/2009	2009007	2012	NA
Surry	SUR	2	5000280/281		8/5/2009	2009007	2012	NA
Susquehanna	SUSQ	1	5000387/388		11/7/2008	2008009	2011	NA
Three Mile Island	TMI	1	5000289		9/12/2008	2008009	2011	NA
Turkey Point 3/4	TP	2	5000250/251	Nov-05	2/9/2007	2007006	4/29/2010	2010007
V.C. Summer	SUM	2	5000395	Oct-06	4/5/2007	2007006	8/13/2010	2010008
Vermont Yankee	VY	1	5000271		3/29/2007	2007008	10/1/2010	2010008

Table B-2: Triennial Fire Protection Inspections dates and inspection report numbers for round 3 and round 4

Plant Name	Acronym	Region	Docket Number	NFPA 805	Inspection (Round 3)	Inspection Report Number (Round 3)	Inspection (Round 4)	Inspection Report Number (Round 4)
Vogle 1/2	VOG	2	5000424/425		10/19/2007	2007007	8/20/2010	2010007
Waterford	WAT	4	5000382	Dec-05	8/25/2006	2006010	5/22/2009	2009006
Watts Barr	WB	2	5000390		7/27/2007	2007007	10/8/2010	2010007
Wolf Creek	WC	4	5000482		12/9/2008	2008010	2011	NA

B.1.3 Triennial Fire Protection Findings

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
ANO	4	8/27/2010	Finding (Green)	(PIM) Fire Protection Compensatory Measures Did Not Cover All Fire Protection Features	2010006	2010
ANO	4	6/23/2008	NCV (Green)	(PIM) Inadequate preventive maintenance activities result in emergency light failures	Open in TR 2007006 as URI and closed in IR 2008003 as NCV. This finding corresponds to the year 2007.	2008
ANO	4	10/19/2007	NCV (Green)	(PIM) FAILURE TO MAINTAIN ADEQUATE FIRE BRIGADE STAFFING DURING ALTERNATE SHUTDOWN	2007006	2007
BF	2	9/15/2006	NCV (Green)	(PIM) Safe Shutdown Instruction Directs Operators to Connect 4 KV SD BD "A" to a Potentially Fire-Induced Fault in FA 8	2006014	2006
BF	2	9/15/2006	NCV (Green)	(PIM) Cellular Phone Communications Unreliable for Alternate Shutdown in FA16	2006014	2006
BF	2	10/3/2003	NCV (Green)	(PIM) Changes Made to the Fire Protection Program Regarding Compensatory Fire Watch Implementation Without NRC Approval	2003007	2003
BF	2	9/22/2001	NCV (Green)	(PIM) Error in Analysis of RHR System Results in Failure to Meet Appendix R, Criterion III.L.2.B	Open in TR 2000008 as URI and closed in IR 2001003 as NCV. This finding correspond to the year 2000. This	2001

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
					finding appeared in the quarterly/annual findings.	
BRAI	3	3/6/2009	Finding (Green)	(PIM) Failure to Perform Validation for Safe Shutdown Manual Actions	2009003	2009
BRAI	3	3/6/2009	NCV (Green)	(PIM) Failure to Take Effective Corrective actions to Maintain Capability of foam Suppression Systems	2009003	2009
BRAI	3	6/30/2006	NCV (Green)	(PIM) Failure to Adequately Control Transient Combustibles	2006009	2006
BRAI	3	6/30/2006	NCV (Green)	(PIM) Inadequate Pre-Fire Plan	2006009	2006
BRAI	3	6/30/2006	NCV (Green)	(PIM) Failure to Take Effective Corrective Action	2006009	2006
BRAI	3	7/11/2003	NCV (Green)	(PIM) FAILURE TO ASSESS AND ADDRESS COORDINATION CALCULATION CONCLUSIONS/RECOMMENDATIONS	2003005	2003
BRAI	3	7/11/2003	NCV (Green)	(PIM) MOLDED CASE CIRCUIT BREAKERS NOT PERIODICALLY CYCLED/EXERCISED	2003005	2003

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
BRAI	3	11/30/2000	NCV (N/A)	(PIM) Molded Case Circuit Breakers Not Periodically Inspected and Tested	2000006	2000
BRAI	3	11/30/2000	NCV (N/A)	(PIM) Instrumentation Not Available for Determining RCP Seal Temperature	2000006	2000
BRAI	3	11/30/2000	NCV (N/A)	(PIM) ESW Suction Valves Not Protected from Fire Induced Spurious Actuations	2000006	2000
BRU	2	11/19/2004	NCV (Green)	(PIM) Inadequate Implementation of the Fire Protection Program For ERFBS Fire Barrier Protection of Circuits In Fire Area DG-8	2004010	2004
BV	1	6/8/2001	NCV (Green)	(PIM) INADEQUATE PROCEDURE FOR SAFE SHUTDOWN FROM OUTSIDE OF THE CONTROL ROOM COULD RESULT IN DAMAGE TO EMERGENCY DIESEL GENERATOR	2001005	2001
BYRO	3	12/3/2010	NCV (Green)	(PIM) Failure to Provide Adequate Guidance in Safe-Shutdown Procedures	2010006	2010
BYRO	3	12/3/2010	NCV (Green)	(PIM) Failure to Periodically Test 125 Vdc Molded Case Circuit Breakers	2010006	2010
BYRO	3	6/30/2007	NCV (Green)	(PIM) ALTERNATIVE SHUTDOWN USING THE REMOTE SHUTDOWN PANEL.	It was an URI from TR 2004005 and was closed in IR 2007003. This finding correspond	2007

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
					to the year 2004.	
BYRO	3	3/31/2007	NCV (Green)	(PIM) ADEQUACY OF SAFE SHUTDOWN PROCEDURES TO ADDRESS DRAINING OF THE RWST.	It was an URI from TR 2004005 and was closed in IR 2007002. This finding correspond to the year 2004.	2007
BYRO	3	7/9/2004	NCV (Green)	(PIM) Failure to Install Fire Detector in Accordance With NFPA 72E	2004005	2004
BYRO	3	7/9/2004	NCV (Green)	(PIM) Faulted Pressurizer PORV Power Source Restoration Directions Inadequate	2004005	2004
BYRO	3	7/9/2004	NCV (Green)	(PIM) Design Control of Fire Loading Calculations	2004005	2004
CALL	4	2/27/2009	NCV (Green)	(PIM) Failure to Correct Problems with Fire Protection Impairment Permits	2009006	2009
CALL	4	3/24/2004	NCV (Green)	(PIM) Inadequate smoke alarm response procedure for control room supply.	Open in TR 2003007 as URI and closed in IR 2004002 as NCV. This NCV corresponds to the TR 2003007.	2004
CALL	4	10/21/2003	NCV (Green)	(PIM) Failure to Take Required Compensatory Measures When CREVIS Operation Rendered ESF Switchgear Room	2003007	2003

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
				Halon System Inoperable		
CALL	4	8/22/2000	NCV (Green)	(PIM) Three examples of making a change to the fire protection program, without prior Commission approval, that adversely affected the ability to achieve and maintain safe shutdown.	2000013	2000
CALL	4	8/9/2000	NCV (Green)	(PIM) Failure to maintain in effect a 3-hour rated fire barrier between redundant trains of equipment necessary to achieve and maintain safe shutdown.	2000013	2000
CALV	1	2/28/2004	NCV (Green)	Inadequate Combustible Material Control in Unit 1 69' West Electrical Room	2004003	2004
CALV	1	2/28/2004	NCV (Green)	Failure to Provide Protection in Accordance with 10 CFR Part 50, Appendix R, Section III.G.2.	2004003	2004
CALV	1	2/28/2004	Finding (Green)	Inadequate Breaker Coordination	2004003	2004
CALV	1	9/14/2001	NCV (Green)	(PIM) Inadequate abnormal operating procedures for post-fire safe shutdown. (Section 1RO5.07)	2001007	2001
CALV	1	9/14/2001	NCV (Green)	(PIM) Failure to account for steam generator inventory losses due to blow down flow. (Section 1RO5.07).	2001007	2001

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
CALV	1	9/14/2001	NCV (Green)	(PIM) 22 Saltwater air compressor Appendix R handswitch fuses shunted. LER 50-318/2001-001 (Section 4OA3.1)	2001007	2001
CAT	2	6/28/2010	NCV (Green)	(PIM) Emergency Lighting Units Not Installed as Required by the Fire Protection Program	2010006	2010
CAT	2	8/3/2007	NCV (Green)	(PIM) Degraded Fire Barrier Penetration Seal	2007007	2007
CAT	2	8/3/2007	NCV (Green)	(PIM) ELU Replacement Batteries Not Tested After Installation	2007007	2007
CAT	2	3/31/2006	NCV (Green)	(PIM) Derating Selected Emergency Lighting Units Required for Post-Fire Safe Shutdown	Integrated report 2006002 closing an URI from inspection on 06/25/2004 (2004007)	2006
CLIN	3	3/18/2011	NCV (Green)	(PIM) FAILURE TO ENSURE FIRE DOOR WAS CLOSED AND LATCHED	2011009	2011
CNS	4	3/14/2011	Apparent Violation (White)	(PIM) Inadequate Post-Fire Safe Shutdown Procedures	2010006	2011
CNS	4	3/14/2011	NCV (Green)	(PIM) Failure to Monitor the Performance of the Emergency Lights Against the Maintenance Rule Criteria	2010006	2011

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
CNS	4	7/2/2004	NCV (Green)	(PIM) Failure to ensure redundant safe shutdown systems located in the same fire area are free of fire damage.	2004008	2004
CNS	4	7/2/2004	NCV (Green)	(PIM) Three examples of a NCV of Technical Specification 5.4.1.d for failure to provide adequate instructions in Emergency Procedure 5.4 Fire-S/D, "Fire Induced Shutdown From Outside Control.	2004008	2004
CNS	4	4/6/2001	NCV (Green)	Failure to provide 20 feet separation between redundant service water equipment.	2001003 The ROP website did not have this finding; it was obtained by opening the triennial report.	2001
CNS	4	4/6/2001	NCV (Green)	Failure to provide adequate emergency lighting to perform operator actions for safe shutdown.	2001003 The ROP website did not have this finding; it was obtained by opening the triennial report.	2001
CNS	4	4/6/2001	NCV (Green)	Failure to install detectors as documented in the safety evaluation report which was not in accordance with 10 CFR 50.48(b).	2001003 The ROP website did not have this finding; it was obtained by opening the triennial report.	2001
CNS	4	4/6/2001	NCV (Green)	Failure to to perform calculations to ensure that the locations and conditions of fire areas did not require as much water as is discharged by nominal 1/2-inch orifice sprinkler, as required by NFPA 13 Code requirements	2001003 The ROP website did not have this finding; it was obtained by opening the triennial report.	2001

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
COOK	3	4/11/2003	NCV (Green)	(PIM) Failure to Ensure Alternative Shutdown Capability Could Accommodate Post-Fire Conditions Where Off-Site Power is Not Available	2003005	2003
COOK	3	4/11/2003	NCV (Green)	(PIM) Failure to Ensure Control Room Ventilation Would be Free of Fire Damage	2003005	2003
COOK	3	4/11/2003	NCV (Green)	(PIM) Failure to Provide Adequate Emergency Lighting	2003005	2003
COOK	3	4/11/2003	NCV (Green)	(PIM) Inadequate Carbon Dioxide Concentrations	2003005	2003
COOK	3	12/29/2001	NCV (N/A)	(PIM) Failure to Ensure That Breaker Coordination and Selective Tripping was Provided at the 4.16 kV System	This is not a Triennial Inspection, it was a combined inspection were they looked the FP Safe Shutdown Analysis. Inspection repot 2001019	2001
CP	4	5/3/2011	NCV (Green)	(PIM) Failure to Ensure Emergency Lights in Safe Shutdown Areas had an 8-Hour Capacity	2011007	2011
CP	4	5/3/2011	NCV (Green)	(PIM) Failure to Identify and Mitigate or Correct Potential Single Spurious Fire Damage Scenario	2011007	2011

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
CP	4	5/3/2011	NCV (Green)	(PIM) Failure to Implement Effective Corrective Actions for a Condition Adverse to Fire Protection	2011007	2011
CP	4	9/19/2009	NCV (Green)	(PIM) Inadequate Postfire Safe Shutdown Procedure	Open in TR 2008006 and closed as NCV in IR 2009004.	2009
CP	4	9/19/2009	NCV (Green)	(PIM) Failure to Assure That One Train of Equipment is Free From Fire Damage	Open in TR 2008006 and closed as NCV in IR 2009004. This NCV came from the analysis of the URI "Unapproved Local Manual Actions for Hot Shutdown".	2009
CP	4	9/19/2009	NCV (Green)	(PIM) Inadequate Alternative Shutdown Procedure	Open in TR 2008006 and closed as NCV in IR 2009004.	2009
CP	4	9/21/2008	NCV (Green)	(PIM) "Failure to Ensure Roll-up Fire Doors Complied With Fire Code"	2008004 (Not a triennial inspection finding.)	2008
CP	4	6/22/2008	NCV (Green)	(PIM) Inadequate Fire Protection Compensatory Actions During Refueling Outage.	2008003 (Not a triennial inspection finding.)	2008
CP	4	6/22/2008	NCV (Green)	(PIM) Failure to Expediently Restore Fire Hose Stations in Containment to Service	2008003 (Not a triennial inspection finding.)	2008

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
CP	4	5/22/2008	NCV (Green)	(PIM) Inadequate Fire Suppression Systems	2008006	2008
CP	4	5/22/2008	NCV (Green)	(PIM) Inadequate Post-Fire Safe Shutdown Procedures	2008006	2008
CP	4	6/23/2006	NCV (Green)	(PIM) Operators Unable to Meet Some Critical Action Times During Alternate Shutdown Walkthrough	Integrated report 2006003 closing an URI from inspection on 05/17/2005 (2005008)	2006
CP	4	2/8/2002	NCV (Green)	(PIM) Failure to establish and maintain adequate procedures covering activities associated with fire protection program implementation	Open in TR 2002003 and closed in an Integrated report 2002006	2002
CR	2	7/12/2002	NCV (Green)	(Non-PIM) Failure to Protect One Train of Safe Shutdown Equipment From Fire Damage in Accordance with Appendix R, Section III.G.2 (Three Examples).	Open in TR 2002005 as URI and closed in an IR 2003005 as NCV.	2002
DAVI	3	9/17/2004	NCV (SL-IV)	(PIM) Incomplete Information Provided to NRC in Licensing Submittal	2004009	2004
DIAB	4	7/24/2009	NCV (Green)	(PIM) Safe Shutdown Procedure Not Consistent with Safe Shutdown Analysis	2009008	2009
DIAB	4	3/18/2003	NCV (Green)	(PIM) Two examples of a violation of Technical Specification 5.4.1.d for inadequate fire protection implementation procedure	Open in TR 2003002. Was an URI pending Risk evaluation. Couldn't find the report	2003

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
					where it was declared a NCV.	
DIAB	4	4/7/2000	Finding (Green)	(PIM) Degraded 1-hour fire-rated ceiling in Fire Area 4A and degraded 2-hour fire-rated barrier between Fire Areas 4A and 4B.	2000003	2000
DRES	3	2/15/2008	NCV (Green)	(PIM) Failure to Perform Periodic Trip Tests on Thermal Overload Heaters.	2008006	2008
DRES	3	12/19/2007	NCV (Green)	Failure to Meet the EDG Power Factor Testing Requirements	Open in TR 2002006, discussed in 2005009 and closed in 2008007. This URI became two NCV in 2008007. This finding did not appear in the Dynamic website search.	2007
DRES	3	12/18/2007	NCV (Green)	Failure to Perform a 10 CFR 50.59 Evaluation for Exceeding Continuous Rating on the EDG.	Open in TR 2002006, discussed in 2005009 and closed in 2008007. This URI became two NCV in 2008007. This finding did not appear in the Dynamic website search.	2007
DRES	3	4/1/2005	NCV (Green)	(PIM) Safe Shutdown Procedure Failed to Specify Correct Number of Turns for Opening Valve	2005002	2005

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
DRES	3	5/10/2002	NCV (Green)	(PIM) Reactor Water Level Could Drop Below Top of Active Fuel in the Event of Fire	2002006	2002
DUAN	3	10/6/2009	NCV (Green)	(PIM) Failure to Identify and Address an Adverse Trend in Performing Required Fire Watches	2009006	2009
DUAN	3	3/7/2003	NCV (Green)	(PIM) Lack of Demonstrated Reactor Water Level Instrumentation	2003002	2003
DUAN	3	2/14/2003	NCV (Green)	(PIM) Inadequate Circuit Breaker Coordination for Instrument Power Supply	2003002	2003
DUAN	3	2/14/2003	NCV (Green)	(PIM) Inadequate Corrective Action for Potential for Smoke to Enter Control Room	2003002	2003
FAR	2	4/4/2008	NCV (Green)	(PIM) Fire Procedure Credits Unreliable Indication	This was the closing of URI from 2005006 and announced in TR 2008006	2008
FAR	2	4/4/2008	NCV (Green)	(PIM) Areas Where OMAs Are Performed Did Not Have ELUs Installed	2008006	2008
FAR	2	4/4/2008	NCV (Green)	(PIM) ELU Test Failures Were Not Documented In CRs As Required By Procedure	2008006	2008

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
FAR	2	12/31/2007	NCV (Green)	Fire Procedure Failed to Ensure that AC Power Would Be Available	Open in TR 2005007 and closed in IR 2006005. This finding did not appear in any search from the Dynamic Website. It was taken from the report.	2007
FAR	2	5/23/2005	NCV (Green)	(PIM) Unapproved Local Manual Operator Actions for Post-Fire Safe Shutdown	2005006	2005
FAR	2	9/13/2002	NCV (Green)	(PIM) Failure to Obtain NRC Approval Prior to Implementing Changes to the Approved Fire Protection Program	2002006	2002
FAR	2	9/13/2002	NCV (Green)	(PIM) Failure to Revise Procedure AOP-29.0 Promptly	2002006	2002
FAR	2	9/13/2002	NCV (Green)	(PIM) Failure to Maintain and Implement Fire Protection Program Transformer Fluid Confinement Features Required by the Listing Agency	2002006	2002
FCS	4	8/15/2008	NCV (Green)	(PIM) Untimely Corrective Actions for Degraded Fire Protection Water Supply System	2008009	2008
FCS	4	8/15/2008	NCV (Green)	(PIM) Inadequate Corrective Actions Related to Revising a Post-fire Safe Shutdown Procedure	2008009	2008

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
FCS	4	9/30/2006	NCV (Green)	(PIM) Failure to Implement readonable and Feasible Manual Actions	Open in TR 2005008 and closed in a IR 2006004. This URI became a NCV in that report.	2006
FCS	4	9/30/2006	NCV (Green)	(PIM) Inadequate Alternate Shurdown Procedure	Open in TR 2005008 and closed in a IR 2006004. This URI became a NCV in that report.	2006
FCS	4	11/10/2005	NCV (Green)	(PIM) Failure to Take Prompt Corrective Action for Fire Protection Program Deficiencies	2005008	2005
FCS	4	1/17/2003	NCV (Green)	(PIM) Failure to Assure that at Least One Train of Charging Pumps Was Free of Fire Damage	2003002	2003
FCS	4	3/11/2000	NCV (Green)	Failure to maintain in effect all provisions of the NRC-approved fire protection program in Fire Area 32	2000001. This NCV was taken from the inspection report and not from the website.	2000
FCS	4	3/10/2000	NCV (Green)	(PIM) Failure to Ensure One Train of Systems Required for Safe Shutdown is Free of Fire Damage	Open in TR 2000001 as an Apparent Violation and it was closed as NCV in the TR 2005008.	2000
FERM	3	4/29/2011	Finding (Green)	(Non-PIM) Failure to Store B.5.b Equipment Appropriately	2011012	2011

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
FERM	3	4/29/2011	NCV (Green)	(PIM) Unauthorized Transient Combustibles	2011009	2011
FERM	3	4/29/2011	NCV (Green)	(PIM) Inadequate Detection in Emergency Diesel Generator Rooms	2011009	2011
FERM	3	4/29/2011	NCV (Green)	(PIM) Inadequate Procedures to Control the Plant from the Dedicated Shutdown Panel	2011009	2011
FERM	3	5/8/2008	NCV (Green)	(PIM) Failure to Ensure Air Supply Tubing for Safe Shutdown Valves Free of Fire Damage	2008006	2008
FERM	3	5/8/2008	NCV (Green)	(PIM) High Pressure Coolant Injection Room Sprinkler System Failed to Protect Against Hazard	2008006	2008
FERM	3	5/8/2008	NCV (Green)	(PIM) Reactor Core Isolation Cooling Room Sprinkler System Improperly Installed	2008006	2008
FERM	3	5/8/2008	NCV (Green)	(PIM) Lack of Basis for Diesel Fire Pump Temperature De-Rating	2008006	2008
FERM	3	5/8/2008	NCV (Green)	(PIM) Alternate Shutdown Procedure Failed to Identify Time-Critical Steps	2008006	2008

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
FERM	3	9/30/2006	NCV (Green)	(PIM) Temperatures in Dedicated Shutdown Panel Area - Balance of Plant Switchgear Room	Open in TR 2005006 and closed as NCV in IR 2006004	2006
FERM	3	7/15/2005	NCV (Green)	(PIM) Failure to Have Separation Between Redundant Safe Shutdown Cables (Section 1R05.2)	2005006	2005
FERM	3	7/15/2005	NCV (Green)	(PIM) Failure to Ensure that Adequate Electrical Coordination Existed in Post -Fire Alternate Shutdown Circuits (Section 1R05.3)	2005006	2005
FERM	3	7/15/2005	NCV (Green)	(PIM) Failure to Install Smoke Detectors in Accordance with NFPA 72-E (Section 1R05.10)	2005006	2005
FERM	3	7/15/2005	NCV (Green)	(PIM) Failure to Implement Adequate Corrective Actions in a Timely Manner (Section 4OA2)	2005006	2005
FERM	3	12/6/2002	NCV (Green)	(PIM) Failure to Have Adequate Procedures for Alternative Shutdown in Effect	2002008	2002
FERM	3	12/6/2002	NCV (Green)	(PIM) Failure to Take Prompt Corrective Actions to Correct Identified Deficiencies in Alternative Shutdown Procedure	2002008	2002
FITZ	1	5/16/2008	NCV (Green)	(PIM) Inadequate Procedure Guidance to Address Spurious Failures of the RCIC and LPCI Systems	2008006	2008

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
GG	4	4/18/2008	NCV (Green)	(PIM) Failure to Evaluate Fire Wrap Testing Discrepancies	2008006	2008
GG	4	4/18/2008	NCV (Green)	(PIM) Fire Brigade Members Assigned Responsibilities That Conflicted with Fire Brigade Responsibilities.	2008006	2008
GG	4	4/18/2008	NCV (Green)	(PIM) Plant Modification Blocked Access for Manual Firefighting.	2008006	2008
GG	4	4/18/2008	NCV (Green)	(PIM) Failure to Ensure That Potential Damage to Motor-Operated Valve Circuits Would Not Prevent Safe Shutdown.	2008006	2008
GG	4	4/11/2006	NCV (Green)	(PIM) Inadequate Alternative Shutdown Procedure for Locally Starting and Loading an EDG	Open in TR 2005008 as URI and closed in IR 2006002 as NCV.	2006
GG	4	5/12/2005	Finding (Green)	(PIM) Inadequate Fire Drill Critique	2005008	2005
GG	4	5/12/2005	Finding (Green)	(PIM) No Procedures for Implementing Two Repairs Needed to Achieve Cold Shutdown Following A CR Fire	2005008	2005
GG	4	5/12/2005	NCV (Green)	(PIM) Alternative Shutdown Procedure Did Not Implement Safe Shutdown Analysis Assumption to Isolate Containment in a Timely Manner	2005008	2005

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
GG	4	9/18/2002	NCV (Green)	Failure to protect radio repeaters	2002007. Check because this finding is included in the annual findings. I found this finding in the triennial report not in the website.	2002
GG	4	9/17/2002	NCV (Green)	(PIM) Inadequate alternative shutdown procedure	2002007	2002
GINN	1	6/23/2006	NCV (Green)	(PIM) Missed Fire Brigade Training	2006007	2006
GINN	1	9/30/2004	NCV (Green)	(PIM) Non-Rated Cable Tunnel Hatch	Open in TR 2003013 as URI and closed in IR 2004004 as a NCV.	2004
GINN	1	11/17/2000	NCV (Green)	(PIM) Failure to ensure that the alternate shutdown capability for the screen house was electrically and physically independent of the area.	2000009	2000
HAR	2	11/7/2008	NCV (Green)	(PIM) Sprinkler System in Cable Spreading Room A Does Not Meet Licensee's Fire Protection Program Requirements	2008008	2008
HAR	2	10/31/2003	NCV (Green)	(PIM) INADEQUATE IMPLEMENTATION OF THE FIRE PROTECTION PROGRAM FOR SAFE SHUTDOWN	This NCV was declared in an in-office review of the significance of the triennial fire protection inspection findings of	2003

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
					TR 2002011. The inspection report number is 2003007.	
HAR	2	10/31/2003	NCV (Green)	(PIM) INADEQUATE CORRECTIVE ACTION FOR A PREVIOUS WHITE FIRE PROTECTION FINDING	This NCV was declared in an in-office review of the significance of the triennial fire protection inspection findings of TR 2002011. The inspection report number is 2003007.	2003
HAR	2	4/1/2000	NCV (Green)	(PIM) Fire protection wrap/penetration seal interface problems	This NCV was found in the integrated report 2000001. This NCV should be a finding under quarterly procedure.	2000
HAT	2	2/24/2011	NCV (Green)	(PIM) Untimely Corrective Action for Installing Appendix R Emergency Lights	2010009	2011
HAT	2	2/24/2011	Unresolved item (TBD)	(Non-PIM) Protection of Systems Structures and Components from Damage as a Result of Fire Suppression Activities	2010009	2011
HAT	2	6/30/2005	NCV (Green)	(PIM) Untimely and Unapproved Manual Operators Actions for Post-Fire SSD	Open in TR 2003006 as URI and closed in IR 2005003 as NCV.	2005

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
HAT	2	7/25/2003	NCV (Green)	(Non-PIM) Inadequate Procedure for Local Manual Operator Action for Post-Fire Safe Shutdown Equipment	2003006	2003
HAT	2	7/25/2003	NCV (Green)	(PIM) Unapproved Manual Operator Actions for Post-Fire Safe Shutdown	2003006	2003
HAT	2	7/25/2003	NCV (Green)	(PIM) Inadequate Emergency Lighting for Operation of Post-Fire SSD Equipment	2003006	2003
HOPE	1	1/26/2001	Finding (Green)	(PIM) SHUTDOWN OUTSIDE CONTROL ROOM PROCEDURE COULD NOT BE PERFORMED AS WRITTEN	2001002	2001
INP3	1	5/27/2011	NCV (Green)	(PIM) Inappropriate Interim Compensatory Measure for Service Water Strainer Backwash Function	2011008	2011
INP3	1	2/8/2008	NCV (Green)	(PIM) Inadequate Procedure Guidance to Diagnose and Align RCP Seal Cooling	2008007	2008
INP3	1	2/8/2008	NCV (Green)	(PIM) Inadequate Procedure Guidance to Isolate Steam Generator Blowdown Flow	2008007	2008
INP3	1	2/8/2008	NCV (Green)	(PIM) Inadequate Procedure Directions to De-energize PORV and Letdown Valve Circuits	2008007	2008

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
INP3	1	2/21/2002	NCV (Green)	(PIM) INADEQUATE PROCEDURE FOR TRANSITION TO COLD SHUTDOWN DURING SHUTDOWN FROM OUTSIDE THE CONTROL ROOM	2001012	2002
INPT	1	4/7/2010	NCV (Green)	(PIM) Fire Scenario resulting in loss of charging pump suction	2010006	2010
INPT	1	4/7/2010	NCV (Green)	(PIM) Fire Scenario resulting in loss of cooling water to charging pumps	2010006	2010
INPT	1	4/13/2001	NCV (Green)	(PIM) Failure to have adequate length of fire hose staged for manual fire fighting in the central control room	2000004	2001
INPT	1	4/13/2001	NCV (Green)	(PIM) Failure to provide adequate isolation of circuits from the central control room	2000004	2001
KEWA	3	9/11/2008	Finding (N/A)	(Non-PIM) Failure to Provide Fire Detection and Fixed Fire Suppression in an Appendix R III.G.3 Area	2008008	2008
KEWA	3	9/11/2008	Finding (N/A)	(Non-PIM) Post-fire Shutdown Procedures Failed to Ensure Time-Critical Operator Actions were Performed in an Expeditious Manner	2008008	2008
KEWA	3	9/11/2008	Finding (N/A)	(Non-PIM) Failure to Protect Pressurizer PORV Control Cable for a Fire Scenario	2008008	2008

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
KEWA	3	12/14/2006	NCV (Green)	(PIM) Failure to Provide Suppression for Safe Shutdown Equipment in Appendix R, III.G.3 Area	Open in TR 2004005 as URI and closed in the inspection report 2006016 as NCV.	2006
KEWA	3	7/31/2004	NCV (Green)	Failure to Maintain Acceptable (Quality Related) Pre-Fire Strategies	2004005 This NCV was taken from the triennial inspection report. This NCV appeared in the quarterly/annual findings search when it is suppose to be a triennial finding..	2004
KEWA	3	7/30/2004	NCV (Green)	(PIM) Failure to Meet the Fire Protection Program Requirements for Hose Lengths to Maintain an Acceptable Water Pressure and Flow at Hose Stations	2004005	2004
KEWA	3	7/30/2004	NCV (Green)	(PIM) Failure to Meet the NFPA Code Requirements for Extinguisher Placement	2004005	2004
KEWA	3	7/30/2004	NCV (Green)	(PIM) Transient Combustibles Not Adequately Controlled Within Fire Area AX-32	2004005	2004
KEWA	3	7/30/2004	NCV (Green)	(PIM) Transient Combustibles Not Adequately Controlled Within Fire Area AX-24	2004005	2004
KEWA	3	7/30/2004	NCV (Green)	(PIM) Failure to Repair the Deluge System Heat Detectors in a Timely Manner	2004005	2004

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
KEWA	3	10/2/2002	NCV (Green)	Inappropriate Placement of Diesel Generator Room Heat Detectors	Open in TR 2001002 as URI and closed in this follow-up fire protection follow-up inspection 2002006. This NCV should be a triennial finding because they are closing an URI but it did not appear in the Dynamic Website at all.	2002
KEWA	3	8/9/2001	NCV (Green)	(PIM) NON-RATED FIRE BARRIER	Open in TR 2001002 as an Apparent Violation and closed in IR 2001011 as NCV.	2001
KEWA	3	3/12/2001	NCV (Green)	(PIM) INADEQUATE SMOKE DETECTOR COVERAGE IN FIRE ZONE TU-95B.	2001002	2001
KEWA	3	3/12/2001	NCV (Green)	(Non-PIM) NON-RATED FIRE BARRIER.	Open in TR 2001002 as an Apparent Violation and closed in IR 2001011 as NCV. (I change the classification from NCV to Apparent Violation because in the triennial report appears as apparent violation.)	2001

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
KEWA	3	2/13/2001	NCV (Green)	(PIM) Failure to Test Fire Door in Accordance with Fire Plan	Inspection report 2001004 This NCV should be in the annual/quarterly finding.	2001
LASA	3	11/17/2008	NCV (Green)	(PIM) Unauthorized Transient Combustibles	2008007	2008
LASA	3	11/17/2008	NCV (Green)	(PIM) Failure to provide a sprinkler system for Fire Zone 4F3	2008007	2008
LASA	3	6/30/2007	NCV (Green)	(PIM) Licensee Relied on Operator Manual Actions for Post-fire SSD.	Open in TR 2005006 as an URI and closed in IR 2007003 as NCV.	2007
LASA	3	9/2/2005	NCV (Green)	(PIM) Procedures Fail To Ensure Fire Doors Are Operable	2005006	2005
LIM	1	8/9/2007	NCV (Green)	(PIM) Inadequate Fire safe Shutdown Procedure for Securing HPCI	2007006	2007
MCG	2	5/14/2009	NCV (Green)	(PIM) Failure to Take Adequate Corrective Action for Appendix R Emergency Lighting Credited for Operator Action	2009007	2009
MCG	2	5/14/2009	NCV (Green)	(PIM) Pertinent Fire Brigade Information and Guidance Not Identified in Fire Fighting Strategies	2009007	2009

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
MCG	2	9/11/2004	NCV (Green)	(PIM) Inadequate Separation and Protection of Cables Associated With Redundant Trains of Instrumentation Located in the Same Fire Area	Open in TR 2003007 as URI and closed in an IR 2004004 as NCV.	2004
MCG	2	3/13/2004	NCV (Green)	(PIM) Failure to Include Valve 2CA0007A in the Fire Protection Safe Shutdown Analysis for Control Room Fire	Open in TR 2003007 as URI and closed in an IR 2004003 as NCV.	2004
MCG	2	3/13/2004	NCV (Green)	(PIM) Standby Shutdown Facility was Not Independent of Cables in Fire Areas 2 and 14	Open in TR 2000009 as URI and closed in an IR 2004003 as NCV.	2004
MILL	1	9/22/2010	NCV (Green)	(PIM) NCV 05000336/2010008-01; 05000423/2010008-01, Failure to Properly Control Fire Fighting Strategies.	2010008	2010
MILL	1	12/5/2008	NCV (Green)	(PIM) NCV 05000336/2008008-01, Failure to Ensure Equipment Necessary For Fire Safe Shutdown Available.	2008008	2008
MILL	1	12/5/2008	NCV (Green)	(PIM) NCV 05000336/2008008-02, Failure to Ensure Timely Manual Action Consistent with the Post-Fire Safe Shutdown Analysis.	2008008	2008
MILL	1	6/30/2008	NCV (Green)	(PIM) Fire Protection Deficiency Resulting in Potential Loss of All Charging Pumps	Open in TR 2007007 in TR and closed in IR 2008003 as NCV.	2008
MILL	1	10/5/2007	NCV (Green)	(PIM) Auxiliary Building Fire Safe Shutdown Procedure Lacked RCP Seal Thermal Shock Precautions	2007007	2007

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
MILL	1	10/5/2007	NCV (Green)	(PIM) Auxiliary Shutdown Panel Reactor Head Vent Valves Not Isolated from Effects of a Control Room Fire	2007007	2007
MILL	1	10/5/2007	NCV (Green)	(PIM) Emergency Light Unit High Failure Rate	2007007	2007
MILL	1	11/2/2001	Finding (Green)	(PIM) INSUFFICIENT COMPENSATORY MEASURES FOR REMOVAL OF CABLE SPREADING ROOM CO2 SUPPRESSION SYSTEM	2001012	2001
MONT	3	7/15/2011	NCV (Green)	(PIM) HYDROGEN BOTTLES LOCATED BELOW RHR SYSTEM CABLES.	2011008	2011
MONT	3	7/15/2011	NCV (Green)	(Non-PIM) B.5.b Strategy Did Not Ensure Minimum Flow Rate for Injection into RPV with Portable Pump.	2011008	2011
MONT	3	7/15/2011	NCV (Green)	(PIM) FAILURE TO INSPECT AND TEST THE MCR AIR INTAKE SMOKE DETECTOR.	2011008	2011
MONT	3	4/18/2008	NCV (Green)	(PIM) UNCONTROLLED TRANSIENT COMBUSTIBLES.	2008006	2008
MONT	3	4/18/2008	NCV (Green)	(PIM) SHUTDOWN PANEL REQUIREMENTS REMOVED FROM IMPROVED TECHNICAL SPECIFICATIONS.	2008006	2008

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
MONT	3	11/4/2005	NCV (Green)	(PIM) FAILURE TO ADDRESS SIGNIFICANT OBSTRUCTION OF SPRINKLER HEADS.	2005013	2005
MONT	3	6/21/2002	NCV (Green)	(PIM) Failure to Meet the Separation Criteria for Redundant Cabling and Equipment in Fire Zone 12A, Intake Structure Pump Room	2002011	2002
MONT	3	6/21/2002	NCV (Green)	(PIM) Procedures C.4-b-8.5.A, "Plant Fire," C.4-C, "Shutdown Outside the Control Room," and Other Related Procedures Associated with Responding to a Plant Fire Were Not Appropriate to the Circumstances.	2002011	2002
MONT	3	6/21/2002	NCV (Green)	(PIM) Failure to Maintain Full Area Detector Coverage in Zones 23A, 14A, 13B, 19A, and 19B.	2002011	2002
MONT	3	6/21/2002	NCV (Green)	(PIM) Failure to maintain Complete Sprinkler Coverage in Fire Zones 13A and 13B.	2002011	2002
MONT	3	6/21/2002	NCV (Green)	(PIM) Failure to Enter Conditions Adverse to Quality into the Corrective Action Program and to Correct Conditions Adverse to Quality.	2002011	2002
MONT	3	6/21/2002	NCV (SL-IV)	(PIM) Failure to Perform Written Safety Evaluations and Submit a Summary to the NRC for Changes Made to the FPP, FHA, and SSA from 1984 to 2001.	2002011	2002

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
NA	2	11/12/2009	NCV (Green)	(PIM) Failure to Adequately Address the Potential for CO2 Over-pressurization within the Unit 2 Cable Vault & Tunnel	2009008	2009
NA	2	11/12/2009	NCV (Green)	(PIM) Inadequate Procedure for Powering Credited Components for Fire in Cable Vault & Tunnel.	2009008	2009
NA	2	2/10/2006	NCV (Green)	(PIM) Carbon Dioxide System for Unit 2 Cable Vault and Tunnel Area Has Degraded Manual Mode	2005008	2006
NA	2	12/31/2004	NCV (Green)	(PIM) Fire Response Procedures Not Adequate to Maintain Reactor Coolant Level Within the Level Indication of the Pressurizer (Section 40A5)	Open in TR 2003006 as URI and closed in IR 2004006 as NCV. This finding appeared in the annual/quarterly findings search.	2004
NA	2	6/26/2004	NCV (Green)	(PIM) Alternate Shutdown Panel Ventilation System Not Independent From Impacts of a Main Control Room Fire	Open in TR 2003006 as URI and closed in IR 2004003 as NCV.	2004
NA	2	5/23/2003	NCV (Green)	(PIM) Failure to Demonstrate the Fire Resistance Rating of 3-Hour Duct Wrap	2003006	2003
NA	2	7/1/2000	NCV (Green)	(PIM) INADEQUATE PROCEDURE FOR ALTERNATIVE SHUTDOWN FOR A CONTROL ROOM FIRE	NCV from IR 2000003 due to continue investigation of the 2 NCV from TR 2000007.	2000
NA	2	4/30/2000	NCV (Green)	Failure to analyze for the affect on the post-fire safe shutdown capability of fire-induced failures of the main feedwater system.	Open in TR 2000007 as URI and closed in IR 2000006 as a NCV in	2000

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
					2000006. This finding did not show up in the triennial findings neither in the annual/quarterly findings when you do the search in the ROP Web Site.	
NA	2	4/30/2000	NCV (Green)	Inadequate procedural guidance for implementing alternate shutdown for a fire in the emergency switchgear room.	Open in TR 2000007 as URI and closed in IR 2000006 as a NCV in 2000006. This finding did not show up in the triennial findings neither in the annual/quarterly findings when you do the search in the ROP Web Site.	2000
NA	2	4/28/2000	NCV (N/A)	(PIM) FAILURE TO ANALYZE NON-SAFETY CIRCUITS WHICH COULD PRODUCE TRANSIENTS DUE TO POTENTIAL FIRE INDUCED SPURIOUS OPERATION	2000007	2000
NA	2	4/28/2000	NCV (Green)	(PIM) INADEQUATE PROCEDURE GUIDANCE FOR IMPLEMENTING ALTERNATE SHUTDOWN FOR A FIRE IN THE MAIN CONTROL ROOM	2000007	2000
NMP	1	6/19/2009	NCV (Green)	Failure to Implement Fire Brigade Training Program Procedure	2009006	2009

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
NMP	1	6/20/2003	NCV (Green)	(PIM) Failure to Promptly Correct Fire Protection Deficiency.	2003007	2003
OC	1	4/1/2011	NCV (Green)	(PIM) Control Cables for the Reactor Coolant Inventory Makeup Source Not Protected From Fire Damage	2011007	2011
OC	1	4/1/2011	NCV (Green)	(PIM) B.5.b. Phase 2 and 3 Mitigating Strategy	2011009	2011
OC	1	6/27/2008	NCV (Green)	(PIM) Failure to Review the Impact of Site Staffing Changes to the Fire Protection Program	2008008	2008
OC	1	11/4/2005	NCV (Green)	(PIM) Failure to Provide Protection in Accordance with 10 CFR Part 50, Appendix R, Section III.G.2.	Open in TR 2002011 as URI and closed in TR 2005008 as NCV.	2005
OCO	2	2/27/2004	NCV (Green)	(PIM) Inadequate Maintenance of Fire Safe Shutdown Procedures	Open in TR 2002003 as URI and closed in TR in 2004010 as NCV.	2004
PALI	3	7/27/2001	NCV (Green)	(PIM) Smoke Detectors Inadequate - Southern Portions of Cable	Triennial Report 2001008. Check because this finding is included in the annual findings. I found this finding in the triennial report not in the website.	2001

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
PALI	3	7/27/2001	NCV (Green)	(PIM) Smoke Detectors Inadequate - 1-D Switchgear Room	Triennial Report 2001008. Check because this finding is included in the annual findings. I found this finding in the triennial report not in the website.	2001
PALO	4	8/17/2007	NCV (Green)	(PIM) Inadequate procedure for safe shutdown from outside the control room	2007008	2007
PB	1	4/25/2003	NCV (Green)	(PIM) Failure To Provide Cable Protection in Accordance With 10 CFR Part 50, Appendix R, Section III.G.2	2003009	2003
PERR	3	6/26/2009	NCV (Green)	(PIM) Failure to Maintain Procedures for Post Fire Operation of Control Room HVAC Fans and Control of Remote Shutdown Room Toolbox Inventory.	2009007	2009
PERR	3	6/26/2009	NCV (Green)	(PIM) Failure to Assure That Systems Structures and Components Necessary to Achieve And Maintain Hot Shutdown Conditions Were Free of Fire Damage Without Repair Actions.	2009007	2009
PERR	3	6/26/2009	NCV (Green)	(PIM) Failure to Provide Required Electrical Isolation for Post Fire Safe Shutdown Electrical Circuits	2009007	2009

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
PERR	3	12/15/2006	NCV (Green)	(PIM) Failure to provide full electrical isolation in the design of the post-fire safe shutdown control logic circuitry	2006006	2006
PERR	3	12/15/2006	NCV (Green)	(PIM) Failure to evaluate the floor drain capacity in the division 1 and 2 cable spreading rooms	2006006	2006
PERR	3	11/2/2000	NCV (N/A)	(PIM) Failure to update procedures ONI-054 in a timely manner to include information used to alert operators about potential fire impacts upon RHR valves.	2000010	2000
PERR	3	11/2/2000	NCV (Green)	(PIM) Failure to address extended inoperability of the control room sub floor CO2 system.	2000010	2000
PILG	1	10/1/2009	NCV (Green)	(PIM) Failure to establish adequate procedures to prevent adverse impact due to spurious valve closure caused by fire damage.	2009007	2009
PILG	1	7/31/2003	NCV (Green)	(PIM) Failure to Provide Instrumentation for Diagnosing and Verifying Manual Actions.	2003005	2003
PILG	1	8/18/2000	NCV (Green)	(PIM) Emergency Lighting Units were not installed to support manual operation	2000004	2000
PILG	1	8/18/2000	NCV (Green)	(PIM) Emergency diesel generator watt-meter cables in the cable spreading room were neither protected nor isolated	2000004	2000

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
POIN	3	7/13/2007	Finding (N/A)	(PIM) Failure to Meet Separation Requirements for Redundant Trains	2007006	2007
POIN	3	7/13/2007	NCV (Green)	(PIM) Failure to Promptly Correct Non-Compliant Sprinkler Heads in the EDG Rooms	2007006	2007
POIN	3	11/19/2004	NCV (Green)	(PIM) Failure to Ensure That a Safe Shutdown Procedure Directed Alignment of Instrumentation to a Direct Current Bus with a Battery Charger	2004010	2004
POIN	3	9/28/2001	Finding (N/A)	(PIM) HUMAN PERFORMANCE CROSS-CUTTING ISSUE DUE TO WEAKNESSES IN FIRE PROTECTION ENGINEERING AREA	2001012	2001
POIN	3	9/28/2001	NCV (N/A)	(PIM) Emergency Lighting Inadequate in Façade Area	2001012	2001
POIN	3	9/28/2001	NCV (Green)	(PIM) Auxiliary Feedwater Pump Room Halon System Inadequate for Deep-Seated Fire Hazard	2001012	2001
POIN	3	9/28/2001	NCV (N/A)	(PIM) INSUFFICIENT APPENDIX R FUEL OIL SUPPLY	2001012	2001
POIN	3	9/28/2001	NCV (Green)	(PIM) POSSIBLE SPURIOUS OPENING OF POWER-OPERATED RELIEF VALVE DURING FIRES	2001012	2001

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
PRAI	3	4/24/2009	Finding (Green)	(PIM) Failure to Ensure Fire door Would Consistently Close	2009007	2009
PRAI	3	4/24/2009	Finding (N/A)	(Non-PIM) Unanalyzed Condition Due to Manual Actions That Do Not Comply with 10 CFR 50, Appendix R	2009007	2009
PRAI	3	4/24/2009	NCV (Green)	(PIM) Combustible Materials Present Within Safety Related Fire Area	2009007	2009
PRAI	3	8/18/2006	NCV (Green)	Redundant Circuit Not Entirely Protected	Open in TR 2006009. It should be a Green NCV but it was not cited because it had enforcement discretion due to the transition of NFPA 805.	2006
PRAI	3	8/18/2006	NCV (Green)	(PIM) No Fire-Rated Damper in Return Ventilation Duct	2006009	2006
PRAI	3	8/18/2006	NCV (Green)	(PIM) Surveillance Did Not Include TS Requirements	2006009	2006
PRAI	3	8/18/2006	NCV (Green)	(PIM) Lack of Smoke Detectors	2006009	2006

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
PRAI	3	6/30/2004	NCV (Green)	(PIM) CYCLING OF SAFETY INJECTION PUMPS FOR FIRE SCENARIOS	Open in TR 2004002 as URI and closed in a IR 2004005 as NCV.	2004
PRAI	3	3/5/2004	NCV (Green)	(PIM) TRANSIENT COMBUSTIBLES INVALIDATED EXEMPTION FOR LACK OF A FIRE SUPPRESSION SYSTEM	2004002	2004
QUAD	3	9/10/2009	NCV (Green)	(PIM) Failure to Evaluate Lack of Water Spray System Piping	2009006	2009
QUAD	3	9/10/2009	NCV (Green)	(PIM) Failure to Provide Adequate Electrical Coordination for Control Circuit	2009006	2009
QUAD	3	6/29/2006	NCV (Green)	(PIM) SSMP Credited as a Redundant System for an Appendix R III.G.2 Fire Area	2006002	2006
QUAD	3	6/29/2006	NCV (Green)	(PIM) Failure To Ensure One Redundant Train of RHRSW Free of Fire Damage	2006002	2006
QUAD	3	6/29/2006	NCV (Green)	(PIM) Procedure Included Unapproved Fuse Repair for Appedix R	2006002	2006
QUAD	3	6/29/2006	NCV (Green)	(PIM) Failure to Maintain Acceptable Pre-Fire Plans	2006002	2006

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
QUAD	3	6/29/2006	NCV (Green)	(PIM) Failure to Have a Calculation for Hose Stations That Did Not Meet Code Requirements to Ensure Adequate Water Pressure and Flow Rate	2006002	2006
QUAD	3	6/29/2006	NCV (Green)	(PIM) Failure to Meet NFPA Code Requirements for Class A Fire Extinguishers	2006002	2006
QUAD	3	12/15/2000	NCV (Green)	(PIM) Failure to Seal Tops of Electrical Cabinets	2000016	2000
QUAD	3	12/15/2000	NCV (Green)	(PIM) Failure to Provide Fire Stops in Cable Trays	2000016	2000
QUAD	3	12/15/2000	NCV (N/A)	(PIM) Technical Errors in Appendix R Safe Shutdown Procedures	2000016	2000
RBS	4	6/2/2010	NCV (Green)	(PIM) Failure to Ensure Alternative Shutdown Procedure Could be Implemented as Written	2010006	2010
RBS	4	6/2/2010	NCV (Green)	(PIM) Failure to Implement and Maintain in Effect all Provisions of the Approved Fire Protection Program	2010006	2010
RBS	4	6/2/2010	NCV (Green)	(PIM) Failure to Implement and Maintain in Effect all Provisions of the Approved Fire Protection Program	2010006	2010

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
RBS	4	6/2/2010	NCV (Green)	(PIM) Failure to Ensure at Least One Train of Equipment Necessary to Achieve Hot Shutdown Conditions is Free of Fire Damage	2010006	2010
RBS	4	2/13/2004	Finding (Green)	(PIM) Untimely corrective actions for degraded fire protection feature	2004007	2004
RBS	4	2/13/2004	NCV (Green)	(PIM) Inadequate procedures for ventilation and smoke control associated with a fire	2004007	2004
ROB	2	9/3/2004	NCV (Green)	(PIM) UNAPPROVED LOCAL MANUAL OPERATOR ACTIONS INSTEAD OF REQUIRED PHYSICAL PROTECTION OR SEPARATION OF CABLES TO PRECLUDE FIRE DAMAGE	2004006	2004
ROB	2	9/3/2004	NCV (Green)	(PIM) INOPERABLE FIRE BARRIER PENETRATION SEAL	2004006	2004
SALM	1	2/13/2009	NCV (Green)	(PIM) FAILURE TO EVALUATE SPURIOUS OPERATION OF SAFETY INJECTION SIGNAL	2009006	2009
SALM	1	3/31/2006	NCV (Green)	(PIM) FAILURE TO COMPLY WITH STATION COLD SHUTDOWN REPAIR PROCEDURES	2006007	2006
SALM	1	2/7/2000	NCV (Green)	(PIM) PSEG FAILED TO ENSURE THE CO2 SYSTEMS FOR THE UNITS 1 & 2 4,160 VAC ELECTRIC PENETRATION ROOMS REACHED AND MAINTAINED	1999010	2000

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
				THE REQUIRED CO2 CONCENTRATION 50%		
SALM	1	2/7/2000	NCV (Green)	(PIM) PSEG FAILED TO ENSURE THAT ONE TRAIN OF EQUIPMENT NECESSARY TO ACHIEVE HOT SHUTDOWN FORM THE EMERGENCY CONTROL STATION IS FREE OF FIRE DAMAGE	1999010	2000
SALM	1	2/7/2000	NCV (Green)	(PIM) PSEG IDENTIFIED A CONDITION IN WHICH A FIRE COULD DAMAGE CABLES SUCH THAT THE POWER OPERATED RELIEF VALVE WOULD OPEN AND THE ASSOCIATED BLOCK VALVE COULD NOT BE CLOSED.	1999010	2000
SANO	4	6/15/2007	NCV (Green)	(PIM) Fire Separation in Fire Area 2/3-AC-50-29 Did Not Comply With Deviation Request.	2007008	2007
SANO	4	10/7/2004	Finding (Green)	(PIM) INADEQUATE PROGRAM TO PROVIDE TRAINING FOR OPERATORS ASSIGNED DUTIES AS FIRE TECHNICAL ADVISORS	2004008	2004
SEAB	1	7/29/2005	Finding (Green)	(PIM) Time Critical Operator Actions Not Included in the Safe Shutdown Analysis	2005008	2005
SEQ	2	6/13/2011	NCV (Green)	(PIM) Failure to Establish Compensatory Actions for Blocked Sprinklers	2011006	2011

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
SEQ	2	6/13/2011	NCV (Green)	(PIM) Sprinkler System in Room 690.0-A1 of the Auxiliary Building has NFPA Code Deviation	2011006	2011
SEQ	2	6/27/2008	NCV (Green)	(PIM) Fire Detectors in 480 V Shutdown Board Room 2B2 Not Installed According to NFPA Code	2008006	2008
SEQ	2	6/27/2008	NCV (Green)	(PIM) Sprinklers too far below Ceiling in Cable Spreading Room	Open in TR 2005011 as a URI and closed in TR 2008006 as a NCV.	2008
SEQ	2	3/29/2002	NCV (Green)	(PIM) INADEQUATE PROTECTION OF SAFE SHUTDOWN (SSD) COMPONENTS	2002003	2002
SEQ	2	3/29/2002	NCV (Green)	(PIM) INADEQUATE PROCEDURE GUIDANCE FOR PLANT FIRES	2002003	2002
SEQ	2	3/29/2002	NCV (Green)	(PIM) INADEQUATE EMERGENCY LIGHTING FOR REFUELING WATER STORAGE TANK (RWST) SUCTION VALVES	2002003	2002
SEQ	2	3/29/2002	NCV (Green)	(PIM) INADEQUATE PROTECTION FOR VOLUME CONTROL TANK (VCT) SUCTION VALVES	2002003	2002
STL	2	4/30/2009	NCV (Green)	(PIM) Failure to Correct Conditions Adverse to Quality	2009007	2009

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
STL	2	10/20/2006	NCV (Green)	(PIM) Failure to Test the Sound Powered Phones in Accordance With Surveillance Procedures	2006010	2006
STL	2	10/31/2003	NCV (Green)	(Non-PIM) Failure to Evaluate the Combustible Loading of Oil-Filled Transformers in the FHA and the Effect on SSD Capability in the Event of a Fire in Unit 2	Open in TR 2003002 as URI and closed in IR 2003013 as NCV. This NCV appeared under the quarterly findings list.	2003
STL	2	3/28/2003	NCV (Green)	(PIM) Cables in Containment Fail to Meet 10 CFR 50, Appendix R, Criterion III.G.2 Requirements	2003002	2003
STL	2	6/30/2001	NCV (Green)	(PIM) Inoperable Cable Spreading Room Smoke Detector	2001003 This is not a triennial inspection. The findings were obtained in a IR but appeared under the triennial website search.	2001
STL	2	6/30/2001	NCV (Green)	(PIM) Fire Detection Electrical Monitoring System Not in Accordance with Requirements	2001003 This is not a triennial inspection. The findings were obtained in a IR but appeared under the triennial website search.	2001
STL	2	6/30/2001	NCV (Green)	(PIM) Inadequate Testing of Sprinkler System	2001003 This is not a triennial inspection. The findings were obtained in a IR but appeared under the triennial	2001

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
					website search.	
STP	4	7/1/2011	NCV (Green)	(PIM) Failure to Timely Correct Conditions Adverse to Fire Protection	2011006	2011
STP	4	7/4/2009	NCV (Green)	(PIM) Failure to Ensure a Reliable Fire Suppression Water Supply System	Open in TR 2008008 as URI and closed as NCV in IR 2009003.	2009
STP	4	7/4/2009	NCV (Green)	(PIM) Potential Loss of Centrifugal Charging Pump Suction Due to Fire Damage	Open in TR 2008008 as URI and closed as NCV in IR 2009003.	2009
STP	4	7/14/2005	NCV (Green)	(PIM) Failure to ensure redundant safe shutdown systems located in the same fire area are free of fire damage	2005006	2005
STP	4	7/14/2005	NCV (Green)	(Non-PIM) Hot Sticking Motor-operated Valves	Open in TR 2005006 as URI and closed in IR 2006002 as NCV. This NCV appeared under the annual/quarterly findings list.	2005
STP	4	7/14/2005	NCV (Green)	(Non-PIM) Thermal Hydraulic Analysis Inconsistencies	Open in TR 2005006 as URI and closed in IR 2006002 as NCV. This NCV appeared under the triennial or annual/quarterly findings list.	2005

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
STP	4	7/7/2004	Finding (Green)	(PIM) Fire safe shutdown analysis did not account for the impact of reactor coolant seal leakage.	IR 2004003. This finding was found when they were doing the review of the two URI of TR 2002003 but it is not consider part of those 2 URIs.	2004
SUM	2	8/26/2005	NCV (Green)	(PIM) Failure to Prevent Spurious Operation of Charging Pump Suction From Volume Control Tank Valves LCV-115C and LCV-115E	Open in TR 2004007as URI and closed in IR 2005009 as NCV.	2005
SUM	2	8/26/2005	NCV (Green)	(PIM) Fire Emergency Procedure Implementation Not Timely To Maintain Pressurizer Level In Indicating Range	Open in TR 2004007as URI and closed in IR 2005009 as NCV.	2005
SUM	2	8/26/2005	NCV (Green)	(PIM) Post-Fire Operator Actions For Reactor Coolant Pump Seal Cooling Were Not Adequate	Open in TR 2004007as URI and closed in IR 2005009 as NCV.	2005
SUM	2	6/25/2004	NCV (Green)	(PIM) Failure to Provide Portable Smoke Ejectors Capable of Operation During a Loss of Offsite Electrical Power	2004007	2004
SUM	2	11/28/2001	NCV (Green)	(PIM) Emergency Lighting Installation Deficiencies for Performing Alternative Shutdown Actions	2001009	2001
SUR	2	6/26/2009	NCV (Green)	(PIM) Inadequate Qualification Testing of Fire Barrier Penetration Seals	2011003	2009

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
SUR	2	6/26/2009	NCV (Green)	(PIM) Failure to Establish Maintenance for Backup Battery for the Halon 1301 System in ESGRs	2009007	2009
SUR	2	12/31/2007	NCV (Green)	(PIM) Carbon Dioxide Suppression System Degraded in Two Fire Areas in Unit 1 and Three Fire Areas in Unit 2	Open in TR 2006009 as URI and closed in IR 2007005 as NCV.	2007
SUR	2	6/30/2006	NCV (Green)	(PIM) Removal of Damper Motor Operators From CO2 System in Normal Switchgear Rooms	2006009	2006
SUR	2	6/30/2006	NCV (Green)	(PIM) Inadequate Procedure for Post-Fire Safe Shutdown During a Fire in Mechanical Equipment Room 3	2006009	2006
SUR	2	1/7/2004	NCV (Green)	(PIM) Fire Response Procedures 1-FCA-3.00 And 0-FCA-14.00 Not Adequate To Ensure Safe Shutdown Of Unit 1.	Open in TR 2003007 as URI and closed in the inspection report 2003008 as NCV. The 2003008 inspection report was an in-office examination of 3 open URIs.	2004
SUR	2	1/7/2004	NCV (Green)	(PIM) Alternate Shutdown Panel Ventilation System Not Independent From Impacts Of A Main Control Room Fire.	Open in TR 2003007 as URI and closed in the inspection report 2003008 as NCV. The 2003008 inspection report was an in-office examination of 3 open URIs.	2004

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
SUR	2	2/14/2003	NCV (Green)	(PIM) Failure to Adequately Test Diesel Driven Fire Pump Automatic Start Features	2003007	2003
SUR	2	2/14/2003	NCV (Green)	(PIM) Inadequate Control of Diesel Driven Fire Pump Fuel Oil Isolation Valve	2003007	2003
SUR	2	2/14/2003	NCV (Green)	(Non-PIM) Emergency Diesel Generator No. 3 Bus-tie Breakers Control Circuit Design Deficiency	Open in TR 2003007 as URI and closed in 200304 as NCV. This NCV did not appear in the triennial findings neither in the annual/quarterly findings. I change the denomination from URI to NCV.	2003
SUSQ	1	11/7/2008	NCV (Green)	(PIM) Failure to Establish Adequate Procedures for Operation of the Plant Following Evacuation of the Control Room due to a Fire	2008009	2008
SUSQ	1	12/2/2005	Finding (Green)	(PIM) Fire Brigade Drill Program Not Consistent With Regulatory Guidance and Industry Standards	2005009	2005
SUSQ	1	8/30/2002	NCV (Green)	(PIM) Inadequate Fire Barrier Surveillance	2002008	2002

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
SUSQ	1	8/30/2002	NCV (Green)	(PIM) Inadequate UCSR Under-Floor CO2 Suppression System	2002008	2002
SUSQ	1	8/30/2002	NCV (Green)	(PIM) Inadequate UCSR and LCSR Pre-Action Sprinkler System	2002008	2002
TMI	1	12/31/2009	NCV (Green)	(PIM) Potential CO2 Migration Outside the Relay Room Fire Area	Open in TR 2008009 as URI and closed in IR 2009005 as NCV.	2009
TMI	1	9/12/2008	NCV (Green)	(PIM) Inappropriate Use of Elevators by Fire Brigade Members	2008009	2008
TMI	1	12/16/2005	NCV (Green)	(PIM) Failure to Implement Hot Work Procedural Requirements	2005012	2005
TMI	1	10/25/2002	NCV (Green)	(PIM) Inadequate Control of Transient Combustibles	2002011	2002
TP	2	2/13/2004	NCV (Green)	(PIM) Failure to Install Full Area Fire Detection and Fixed Suppression Systems in the Unit 3 and 4 Mechanical Equipment Room	2004007	2004
VOG	2	11/30/2007	NCV (Green)	(PIM) Failure to Adequately Control Transient Combustibles	2007007	2007

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
VOG	2	11/30/2007	NCV (Green)	(PIM) Safe Shutdown Procedure 18068-2 Not Consistent With Analysis	2007007	2007
VOG	2	11/30/2007	NCV (Green)	(PIM) Emergency Lighting Units Not Installed as Required by the Fire Protection Program	2007007	2007
VOG	2	8/26/2004	NCV (Green)	(PIM) Inadequate Fire Protection Pre-fire Plan to Ensure Adequate Environmental Conditions for Operators to Access Required Equipment	2004007	2004
VY	1	10/1/2010	NCV (Green)	(PIM) Fire Scenario Resulting in Loss of Reactor Core Isolation Cooling System	2010008	2010
VY	1	12/17/2004	NCV (Green)	(PIM) Failure to Provide Isolation of Normal Control Power Source for RCIC Steam Supply Line Isolation Valve	2004010	2004
WAT	4	5/22/2009	Finding (N/A)	(PIM) Failure to provide area wide sprinkler coverage as required in an Appendix R, Section III.G.2.c fire area.	2009006	2009
WAT	4	5/22/2009	Finding (N/A)	(PIM) Failure to ensure post-fire safe shutdown valves could be operated.	2009006	2009
WAT	4	5/22/2009	NCV (Green)	(PIM) Failure to identify conditions adverse to fire protection.	2009006	2009

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
WAT	4	8/19/2003	NCV (Green)	(PIM) Failure to test certain emergency diesel generator "B" mini-sequencer contacts.	2003011	2003
WAT	4	8/19/2003	NCV (Green)	(PIM) Inadequate emergency lighting for supporting operator actions.	2003011	2003
WAT	4	8/19/2003	NCV (Green)	(PIM) Inadequate corrective actions for deficiencies associated with the emergency lighting system.	2003011	2003
WAT	4	9/29/2000	NCV (Green)	Failure to Isolate Neutral Wire during Transfer to the Alternative Shutdown Panel per 10 CFR Part 50 Appendix R, Section III.L.3	Open in TR 2000007 as an URI and closed in IR 2004005 as NCV. This NCV did not appear in any findings list.	2000
WAT	4	9/28/2000	NCV (Green)	(PIM) Failure to demonstrate the ratings of 3-hour fire barriers.	2000007	2000
WAT	4	9/27/2000	NCV (Green)	(PIM) Failure to initiate condition reports for emergency lighting battery test failures.	2000007	2000
WAT	4	9/18/2000	NCV (Green)	(PIM) Failure to maintain in effect a 1-hour rated fire barrier between redundant trains of equipment necessary to achieve and maintain safe shutdown.	2000007	2000
WB	2	12/31/2008	NCV (Green)	(PIM) Carbon Dioxide System in Fire Area 48 Failed to Meet Design Criterion	Open in TR 2007007 as URI and closed in IR 2008005 as NCV.	2008

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
WB	2	12/31/2007	NCV (Green)	(PIM) Fire Protection Program Did Not Demonstrate Eight-Hour Emergency Light Unit Battery Capacity	Open in TR 2007007 as URI and closed in IR 2007005 as NCV.	2007
WB	2	6/15/2007	NCV (Green)	(PIM) Safe Shutdown Procedure for Portions of FA 8 Not Consistent With Underlying Analysis	2007007	2007
WB	2	6/15/2007	NCV (Green)	(PIM) Feeder Cables for Vital Inverter not Protected with One-Hour Fire Barrier	2007007	2007
WB	2	6/15/2007	NCV (Green)	(PIM) Failure to Provide Emergency Light at Location of Local Operator Action Important to Safe Shutdown	2007007	2007
WB	2	4/16/2004	NCV (Green)	(PIM) Inadequate Evaluation Process for Design Changes Which Could Affect Safe Shutdown in the Event of a Fire.	2004006	2004
WC	4	12/29/2009	NCV (Green)	(PIM) Operator Actions Disable Circuit Breaker Coordination and Could Initiate Secondary Fires	Open in TR 2008010 as URI, and closed in IR 2009005 as NCV.	2009
WC	4	9/30/2009	NCV (SL-IV)	(PIM) Changes to the Approved Fire Protection Program Without Prior Staff Approval	Open in TR 2008010 as URI and closed in IR 2009004 as NCV.	2009
WC	4	10/24/2008	NCV (Green)	(PIM) Failure to Ensure a Fire Pump Would Automatically Start for One Fire Area	2008010	2008

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
WC	4	10/24/2008	NCV (Green)	(PIM) Operator Actions Affect the Ability to Operate Post Fire Safe Shutdown Equipment	2008010	2008
WC	4	10/24/2008	NCV (Green)	(PIM) Failure to Evaluate Changes to the Approved Fire Protection Program	Open in TR 2005008 as URI and closed in TR 2008010 as NCV.	2008
WC	4	12/29/2005	NCV (Green)	(PIM) Failure to Provide Adequate Post-Fire Shutdown Procedures	2005008	2005
WC	4	10/11/2002	NCV (Green)	(PIM) Inadequate Alternative Shutdown Procedure	2002008	2002
WNP	4	9/30/2008	NCV (Green)	(PIM) Failure to assure that Division 2 instrument sensing lines remained free of fire damage		2008
WNP	4	7/13/2006	NCV (Green)	(PIM) Failure to Ensure Redundant Safe Shutdown Systems Located In the Same Fire Area Are Free of Fire Damage	2006008	2006
WNP	4	4/6/2004	NCV (Green)	(PIM) Failure to have adequate procedures in effect for alternative shutdown	Open in TR 2003002 as URI and closed in IR 2004002 as NCV.	2004
WNP	4	4/6/2004	NCV (Green)	(PIM) Inadequate corrective action for a condition affecting safe shutdown	Open in TR 2003002 as URI and closed in IR 2004002 as NCV.	2004

Table B-4: Triennial Fire Protection Findings used in the trend analysis. (URIs are not included)

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	Year where it was first observed
WNP	4	4/22/2003	NCV (Green)	(PIM) Unapproved use of manual actions to protect safe shutdown equipment from the effects of a fire	2003002	2003
WNP	4	5/5/2000	NCV (Green)	(PIM) Detectors found not installed in accordance with the fire code.	2000007	2000
WNP	4	5/5/2000	NCV (Green)	(PIM) A degraded 1-hour rated Darmatt raceway fire barrier found with an unsealed annular gap through the post-fire safe shutdown barrier envelope.	2000007	2000

Table B-5: Triennial Fire Protection Greater than Green Violations

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	year where it was first observed
ANO	4	8/3/2001	Violation (White)	(PIM) THE ACCEPTABILITY OF THE USE OF MANUAL ACTIONS IN LIEU OF PROVIDING PROTECTION FOR CABLES ASSOCIATED WITH EQUIPMENT NECESSARY FOR ACHIEVING AND MAINTAINING HOT SHUTDOWN.	Open in TR 2001006 and discussed in IR 2003012 and closed in Supplemental Inspection Report 200511.	2001
BF	2	10/9/2009	Violation (Yellow)	(PIM) Failure to Ensure One Train of Cables of Syatems Necessary to Achieve and/or Maintain Post-Fire safe Shutdown is Free of Fire Damage in Accordance With 10 CFR Part 50, Appendix R, Section III.G.	Open In TR 2006014 as a URI, Apparent Violation in 2009009 and Yelow Violation in the final determination 2010007	2009
BF	2	10/9/2009	Violation (White)	(PIM) Inadequate Safe Shutdown Instruction Entry Conditions for Appendix R Fire Events	Open In TR 2006014 as a URI, Apparent Violation in 2009009 and White Violation in the final determination 2010007	2009
CNS	4	11/5/2010	Violation (White)	Failure to Correct a Condition Adverse to Quality Related to Post-Fire Safe Shutdown	2010006	2010

Table B-5: Triennial Fire Protection Greater than Green Violations

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	year where it was first observed
CNS	4	3/18/2008	Violation (White)	(PIM) Failure to ensure that some steps contained in emergency procedures would work as written	Was an URI in the report 2007008, then became an AV in the followup inspection 2008007 and was declared a White Violation in 2008008	2008
CR	2	9/7/2005	Violation (White)	(PIM) Unprotected Post-Fire Safe Shutdown Cables and Related Non-feasible Local Manual Operator Action	The Violation was declared in 2005011, but it was an Apparent Violation 2005007, and the URI for that AV was first found in 2004009.	2005
HAR	2	9/6/2002	Violation (White)	(Non-PIM) FAILURE TO IMPLEMENT AND MAINTAIN NRC APPROVED FIRE PROTECTION PROGRAM SAFE SHUTDOWN SYSTEM SEPARATION REQUIREMENTS	The Violation (White), closed in the supplemental report 2002008, covered both URI from the TR 1999013-01 and 1999013-02 that were apparent violations in the open item inspection report 2000009. The violation was officially closed in the report 2003007.	2002
OCO	2	7/20/2004	Violation (White)	(PIM) Failure to Meet Licensing Basis for Staffing the SSF in the Event of a Confirmed Fire	Open in TR 2002003 as URI and closed in TR in 2004012 as Apparent Violation. The apparent Violation was discussed in 2004013 and declared a white finding	2004

Table B-5: Triennial Fire Protection Greater than Green Violations

Site	Region	Event Date	Item Type	Title	Comments and/or Report Number	year where it was first observed
PALI	3	7/27/2001	Violation (White)	(PIM) Smoke Detectors Inadequate - Northwest Portion of Cable Spreading Room	Open in TR 2001008 as Apparent Violation, discussed in 2002008 and closed in IR as White Violation. Check because this finding is included in the annual findings. I found this finding in the triennial report not in the website.	2001
SALM	1	2/7/2000	Violation (White)	(PIM) THE CARBON DIOXIDE TESTS FOR THE UNITS 1 & 2 4,160 VAC SWITCHGEAR ROOMS DID NOT REACH OR MAINTAIN THE REQUIRED CO2 CONCENTRATION OF 50%	1999010	2000
SUR	2	2/2/2004	Violation (White)	(PIM) Alternative Shutdown Capability and Response Procedures Not Adequate to Ensure Safe Shutdown of Unit 1 and 2	Open in TR 2003007as URI; discussed in the inspection report 2003008 as an Apparent Violation; declared a white violation in the report 2004008, and closed in inspection report 2004011.	2004

B.2 Annual/Quarterly Fire Protection Procedure 71111.05AQ

Annual/ Quarterly Fire Protection Inspection Findings were determined using the following search criteria in the Dynamic Webpage:

(http://nrr10.nrc.gov/nrr-office/rps/dyn/rop_ir1_select.cfm):

1. Site: ALL
2. Dates: 10/1/1998- 9/30/2009
3. Procedures:
 - a. 7111105TTP (Fire protection [Annual]);
 - b. 7111105Q (Fire Protection [Quarterly])
 - c. 71152 (Identification and Resolution of Problems)
 - d. 71153 (Follow up of Events and Notices of Enforcement Discretion)
4. Cornerstones: ALL
5. Significance: ALL
6. Item Types: ALL
7. Leave blank
8. Status: ALL
9. ROP: PIM and Non-PIM
10. Draft: no
11. Sort: generally findings were sorted by Sites, Event Dates, Item types, Cornerstones
12. Page Format: Summary
13. Cross Counting Issues: box left unchecked

The results of this search were then copied into an Excel Spreadsheet and analysis could begin.

RES staff did a comprehensive reading of some inspection reports because sometimes the URI did not have the same title as the NCV for that URI. Also Procedures 71152 and 71153 were screened individually to verify fire protection significance.

B.2.1 Annual/Quarterly Findings Raw Data

Site	Region	Event Date	Item Type	Title	Inspection Report Number
ANO	4	3/24/2009	Finding (Green)	(PIM) Failure to Follow Procedure for Use of a Torque Amplifying Device on a Valve in the Generator Hydrogen System	2009002
ANO	4	12/31/2008	NCV (Green)	(PIM) Failure to Correct and Prevent Recurrence of a Significant Condition Adverse to Quality Associated with Fires	2008005
ANO	4	12/31/2008	NCV (Green)	(PIM) Failure to Control Transient Combustible Material in the Auxiliary Building	2008005
ANO	4	12/31/2007	NCV (Green)	(PIM) Failure to Control Combustible Material Brought Into the Auxiliary Building	2007005
ANO	4	12/31/2007	NCV (Green)	(PIM) Failure to Maintain Fire Barrier for Emergency Feedwater Pump A	2007005
ANO	4	9/28/2007	NCV (Green)	Failure to Control Combustible Material Brought Into the Auxiliary Building (Section 40A2.2)	2007005-06
ANO	4	9/23/2007	NCV (Green)	(PIM) INADEQUATE WORK PROCEDURES FOR EDG 2K-4A RESULTS IN A FIRE	2007004
ANO	4	6/23/2007	Finding (Green)	(PIM) Inadequate Evaluation of Non-Routine Hot Work Activities Resulted in a Failure to Maintain Fire Watch for Required Amount of Time	2007003
ANO	4	6/23/2007	NCV (Green)	(PIM) Improperly Rated Material Results in Small Flash Fires	2007003

Site	Region	Event Date	Item Type	Title	Inspection Report Number
ANO	4	6/23/2007	NCV (Green)	(PIM) Ineffective Corrective Actions Fail to Identify and Correct a Condition Adverse to Quality	2007003
ANO	4	3/8/2007	NCV (Green)	(PIM) INEFFECTIVE CORRECTIVE ACTIONS RESULTS IN A FIRE IN MOTOR CONTROL CENTER 2B-53	2007007
ANO	4	12/31/2006	NCV (Green)	(PIM) FIRE DURING HOT WORK ACTIVITIES ON THE CONTAINMENT SUMP STRAINER	2006005
ANO	4	3/24/2006	NCV (Green)	(PIM) FAILURE TO ENSURE FIRE DOORS WERE LATCHED	2006002
ANO	4	6/23/2005	NCV (Green)	(PIM) UNTIMELY CORRECTIVE ACTIONS TO ADDRESS REPETITIVE 4160 VAC CABLE FAILURES	2005003
ANO	4	9/23/2004	NCV (Green)	(PIM) FAILURE TO PERFORM REQUIRED HYDROSTATIC TESTING OF PRESSURIZED FIRE EXTINGUISHERS	2004004
ANO	4	6/23/2004	NCV (Green)	(PIM) FAILURE TO PROVIDE ADEQUATE COMPENSATORY MEASURES FOR A LOSS OF FIRE WATER TO THE INTAKE STRUCTURE	2004003
ANO	4	9/21/2002	NCV (Green)	(PIM) FAILURE TO HAVE ADEQUATE PROCEDURAL CONTROLS FOR THE USE OF FIRE RETARDANT TREATED WOOD	2002004
ANO	4	12/21/2001	Finding (Green)	(PIM) FIRE BRIGADE DRILL HOSE SELECTION ISSUE AND PREFIRE PLAN ISSUE.	2001008
ANO	4	10/22/2001	NCV (Green)	(PIM) FAILURE TO ENSURE THAT ONE TRAIN OF BWST OUTLET VALVES WAS FREE OF FIRE DAMAGE.	2001007

Site	Region	Event Date	Item Type	Title	Inspection Report Number
ANO	4	3/31/2001	NCV (Green)	(PIM) INDIVIDUAL WITHOUT REQUIRED TRAINING PERFORMED FIRE WATCH PATROLS	2000013
ANO	4	9/30/2000	NCV (Green)	(PIM) INOPERABILITY OF UNIT 2 FIRE DOOR 269	Opened in 2000008 as a URI and closed in 2000016 APV (white)
BF	2	10/30/2006	NCV (Green)	(PIM) Inadequate Corrective Actions To Ensure Sufficient Alternate Shutdown Cooling Flow During Appendix R Events	Opened in 2006004 as an URI and closed in 2007005 as a NCV
BF	2	6/30/2006	NCV (Green)	(PIM) Failure to Implement Required Fire Watches	2006003
BF	2	9/22/2001	NCV (Green)	(PIM) Inadequate Fire Damper Maintenance Procedure Results in Inoperable Emergency Diesel Generators	2001003
BF	2	9/22/2001	NCV (Green)	(PIM) ERROR IN ANALYSIS OF RHR SYSTEM RESULTS IN FAILURE TO MEET APPENDIX R, CRITERION III.L.2.B	2001003
BRAI	3	6/30/2011	NonCited Violation (Green)	(PIM) STRUCTURAL STEEL BEAM MISSING FIRE PROOFING MATERIALS	2010005
BRAI	3	12/31/2010	NonCited Violation (Green)	(PIM) DEGRADED FIRE SEAL BETWEEN TWO FIRE ZONES	2011003
BRAI	3	3/31/2010	NCV (Green)	(PIM) PERFORMANCE OF TROUBLESHOOTING LEADS TO AUXILIARY BUILDING VENTILATION FAN FIRE	2010002

Site	Region	Event Date	Item Type	Title	Inspection Report Number
BRAI	3	3/31/2010	NCV (Green)	DIESEL OIL STORAGE TANK ROOM SPRINKLER OBSTRUCTIONS	2010002
BRAI	3	9/30/2009	NCV (Green)	(PIM) FAILURE TO PROVIDE CONTINUOUS MONITORING OF A FIRE DOOR	2009004
BRAI	3	9/30/2009	NCV (Green)	(PIM) FAILURE OF FIRE PROTECTION VALVE STROKE PROCEDURE RESULTS IN TRIP OF B TRAIN OF MAIN CONTROL ROOM VENTILATION	2009004
BRAI	3	9/30/2008	NCV (Green)	(PIM) ISOLATION OF LOWER CABLE SPREADING ROOM CARBON DIOXIDE FIRE SUPPRESSION	First Opened in 2008004 as an URI and closed in 2009003
BRAI	3	9/30/2008	NCV (Green)	(PIM) FAILURE TO COMPLY WITH THE SPACING STANDARD FOR SPRINKLER SYSTEMS IN ACCORDANCE WITH THE LICENSEE FIRE PROTECTION PROGRAM REQUIREMENTS	2008004
BRAI	3	9/30/2008	NCV (SL-IV)	(PIM) FAILURE TO PROPERLY EVALUATE REMOVAL OF CARBON DIOXIDE FIRE SUPPRESSION FOR THE UPPER CABLE SPREADING ROOM CARBON DIOXIDE FIRE SUPPRESSION	2008004
BRAI	3	12/31/2006	NCV (Green)	(PIM) TRANSIENT COMBUSTIBLES STAGED DIRECTLY BENEATH SAFETY RELATED HORIZONTAL CABLE TRAYS	2006005
BRAI	3	9/30/2006	NCV (Green)	(PIM) FAILURE TO MAINTAIN ELECTRICALLY SUPERVISED FIRE DOORS IN ACCORDANCE WITH THE FIRE PROTECTION PROGRAM	2006004

Site	Region	Event Date	Item Type	Title	Inspection Report Number
BRAI	3	6/30/2006	NCV (Green)	(PIM) FAILURE TO MAINTAIN FIRE BARRIER IN ACCORDANCE WITH FIRE PROTECTION PROGRAM	2006003
BRAI	3	11/9/2005	NCV (Green)	(PIM) FAILURE TO PROVIDE REQUIRED FUNCTION TO FIRE SUPPRESSION SYSTEM IN 2A DOST ROOM	2005008
BRAI	3	6/30/2005	NCV (Green)	(Non-PIM) BLOCKAGE IN FOAM SUPPRESSION SYSTEM OF UNIT 1 INDOOR DIESEL-GENERATOR OIL STORAGE TANK ROOMS	Opened in 2005003 as a URI and Closed in 2005008 as an NCV (green)
BRAI	3	3/31/2005	Finding (Green)	(PIM) POOR CONTROL OF COMBUSTIBLE MATERIAL AND TEMPORARY POWER SOURCES	2005002
BRAI	3	6/30/2002	NCV (Green)	(PIM) FAILURE TO ESTABLISH COMPENSATORY FIREWATCHES FOR TWO REMOVED FIRE RATED BARRIERS	Opened in 2002006 as an URI and closed in 2002007 as a NCV (Green)
BRAI	3	11/19/2001	NCV (Green)	(PIM) FAILURE TO FOLLOW FIRE PROTECTION PROCEDURES	2001011
BRU	2	12/31/2009	NCV (Green)	(PIM) Failure To Identify and Correct Degraded Fire Protection Sprinklers	2009005
BRU	2	12/31/2009	NCV (Green)	(PIM) Failure To Adequately Implement Design Control Measures For The Fire Protection Program	2009005
BRU	2	11/19/2004	NCV (Green)	Inadequate Implementation of the Fire Protection Program For ERFBS Fire Barrier Protection of Circuits In Fire Area DG-8 (Section 1R05.09)	2004010

Site	Region	Event Date	Item Type	Title	Inspection Report Number
BRU	2	9/28/2002	NCV (Green)	Failure to have installed fixed fire suppression systems that are capable of minimizing fire damage to safe shutdown cabling during floor level transient combustible fires in the Unit 1 and Unit 2 CSRs. (Section 1R05)	2002003
BV	1	8/7/2007	NCV (Green)	Protection of Circuits In Fire Area DG-8	2007004
BV	1	8/18/2006	NCV (Green)	(PIM) HOT WORK RESULTS IN FIRE IN UNIT 1 WEST CABLE VAULT	2006004
BV	1	3/31/2001	NCV (Green)	(PIM) FAILURE TO PROPERLY CONTROL COMBUSTIBLE MATERIALS IN ACCORDANCE WITH THE FIRE PROTECTION PROGRAM	2001002
BV	1	3/31/2001	NCV (Green)	(PIM) FAILURE TO ESTABLISH THE COMPENSATORY MEASURES FOR AN INOPERABLE FIRE DOOR IN THE UNIT 2 EMERGENCY SWITCH GEAR	2001002
BYRO	3	3/31/2010	NCV (Green)	(PIM) FIRE BARRIER WITH UNSEALED PENETRATION BETWEEN UNIT 1 AF PUMP ROOMS	2010002
BYRO	3	9/1/2009	NCV (Green)	Untimely Corrective Actions for Sprinkler Obstructions	2009008-02
BYRO	3	9/30/2008	NCV (Green)	(PIM) ISOLATING CARBON DIOXIDE FIRE SUPPRESSION SYSTEM IN UPPER CABLE SPREADING ROOMS WITHOUT PRIOR NRC APPROVAL	2008004

Site	Region	Event Date	Item Type	Title	Inspection Report Number
BYRO	3	6/30/2008	NCV (Green)	(PIM) FIRE SUPPRESSION SPRINKLER OBSTRUCTION IN THE DIESEL OIL STORAGE TANK ROOM	2008003
BYRO	3	1/31/2008	NCV (Green)	Unauthorized Transient Combustibles	2008006-03
BYRO	3	6/30/2007	NCV (Green)	(PIM) FAILURE TO FIRE PROOF STRUCTURAL STEEL BEAMS TO ACHIEVE A 3-HOUR FIRE RATING.	2007003
BYRO	3	6/30/2007	NCV (Green)	Reduction of Fire Suppression Capacity and Capability	2006006
BYRO	3	9/30/2006	NCV (Green)	(PIM) FAILURE TO MAINTAIN FIRE BARRIERS IN ACCORDANCE WITH FIRE PROTECTION PROGRAM.	2006004
BYRO	3	6/30/2005	NCV (Green)	(PIM) Insufficient Fire Seal Material in Penetration Between Emergency Diesel Generator Rooms and Associated Switchgear Rooms	2005004
CALL	4	6/23/2010	NCV (Green)	Failure to Ensure Completion of Corrective Actions for Degraded Chemical and Volume Control System Valves	2010003
CALL	4	2/27/2009	NCV (Green)	(PIM) Failure to Correct Problems with Fire Protection Impairment Permits	2009006
CALL	4	3/24/2007	Finding (Green)	(PIM) Inadequate Management of an Operator Workaround Resulted in Unplanned Loss of Voume Control Tank Inventory	2007002
CALL	4	12/31/2006	NCV (Green)	(PIM) Failure to Identify a Degraded Fire Barrier	2006005

Site	Region	Event Date	Item Type	Title	Inspection Report Number
CALL	4	12/31/2005	NCV (Green)	(PIM) Failure to adequately implement continuous compensatory fire watches	2006005
CALL	4	12/31/2005	NCV (Green)	Seven examples of inadequately performed continuous fire watches	2005005-02
CALL	4	6/23/2005	NCV (Green)	(PIM) Failure to maintain the integrity of a three-hour auxiliary building fire door.	2005003
CALL	4	3/24/2005	NCV (Green)	(PIM) Unplanned loss of water fire suppression due to an inadequate testing procedure.	2005002
CALL	4	3/24/2005	NCV (Green)	(PIM) Failure to maintain the minimum number of fire brigade members on site.	2005002
CALL	4	12/31/2004	NCV (Green)	(PIM) Failure to Establish Required Fire Watch.	2004005
CALL	4	12/31/2004	NCV (Green)	(PIM) Failure to Maintain the Integrity of an Auxiliary Building Fire Door	2004005
CALL	4	6/25/2002	NCV (Green)	(PIM) Unsecured fire door.	2002002
CALL	4	10/7/2001	NCV (Green)	(PIM) Failure to take action to ensure emergency core cooling system flood doors were properly controlled.	2001006
CALV	1	3/30/2010	NCV (Green)	(PIM) Failure to Implement and Maintain Surveillance Procedures Associated with Fire Barrier and Penetration Seal Inspections	2010002
CALV	1	6/30/2004	NCV (Green)	(PIM) Inadequate corrective actions for 480v breaker testing deficiency. (Section 4OA2)	2004005
CALV	1	7/1/2000	NCV (Green)	Violation of TS 3.7.12 for failure to maintain a fire watch for an inoperable TS fire barrier penetration	2006003

Site	Region	Event Date	Item Type	Title	Inspection Report Number
CALV	1	5/13/2000	Finding (Green)	(PIM) Degraded Protectowire fire detection system	2000004
CALV	1	5/13/2000	Finding (N/A)	(PIM) Protectowire degradation - cross-cutting issue, PI&R	2000004
CAT	2	6/30/2011	NonCited Violation (Green)	(PIM) Failure to adequately control energized temporary power sources with transient fire loads	2011003
CAT	2	9/30/2010	NCV (Green)	(PIM) Failure to adequately control transient combustible material in accordance with the fire protection program	2010004
CAT	2	9/30/2009	NCV (Green)	(PIM) Failure to perform required hourly fire watch patrols	2009007
CAT	2	3/31/2005	NCV (Green)	(PIM) Insufficient Fire Drill Oversight to Ensure Fire Brigade Performance Deficiencies are Identified	2005002
CAT	2	3/27/2004	NCV (Green)	(PIM) Seal Not Installed in a Cable Conduit Penetrating a Fire Barrier	2004003
CLIN	3	3/31/2011	NonCited Violation (Green)	(PIM) FAILURE TO CONTROL TRANSIENT COMBUSTIBLE MATERIALS IN ACCORDANCE WITH FIRE PROTECTION PROGRAM.	2011002
CLIN	3	12/31/2010	NonCited Violation (Green)	(PIM) FAILURE TO CONTROL TRANSIENT COMBUSTIBLE MATERIALS IN ACCORDANCE WITH FIRE PROTECTION PROGRAM.	2010005
CLIN	3	3/31/2010	NCV (Green)	(PIM) FAILURE TO CONTROL COMBUSTIBLE GAS CYLINDERS IN ACCORDANCE WITH FIRE PROTECTION PROGRAM	2010002
CLIN	3	3/31/2010	NCV (Green)	(PIM) FAILURE TO CONTROL TRANSIENT COMBUSTIBLE MATERIALS IN ACCORDANCE WITH FIRE PROTECTION PROGRAM	2010002

Site	Region	Event Date	Item Type	Title	Inspection Report Number
CLIN	3	12/31/2008	NCV (Green)	(PIM) FAILURE TO CONTROL TRANSIENT COMBUSTIBLE MATERIALS IN ACCORDANCE WITH FIRE PROTECTION PROGRAM.	2008005
CLIN	3	3/31/2008	NCV (Green)	(PIM) FAILURE TO FOLLOW APPROVED FIRE PROTECTION PROGRAM PROCEDURES CONCERNING CONTROL OF TRANSIENT COMBUSTIBLE MATERIAL.	2008002
CLIN	3	12/31/2007	NCV (Green)	(PIM) Failure to implement fire protection program in accordance with program requirements	2007005
CLIN	3	3/31/2005	NCV (Green)	(PIM) FAILURE TO ESTABLISH ADEQUATE COMPENSATORY ACTIONS (HOURLY FIRE WATCH) ACCORDING TO FIRE PROTECTION PROGRAM PROCEDURES.	2005003
CLIN	3	9/30/2004	NCV (Green)	(PIM) PORTABLE FIRE EXTINGUISHER MISSING FROM ITS DESIGNATED STORAGE.	2004006
CLIN	3	9/30/2000	NCV (Green)	(PIM) Procedural requirements were not followed when unexpected equipment response was encountered.	2000015
CNS	4	12/31/2010	Finding (Green)	(PIM) Failure to Implement Fire Protection Plan Requirements Related to Hot Work Activities	2010005
CNS	4	10/8/2010	NCV (Green)	Failure to Follow Procedure Results in Repeat Equipment Failure	2010004
CNS	4	12/31/2009	NCV (Green)	(PIM) Procedure Noncompliance Causes Fire in Heater Bay	2009005
CNS	4	9/23/2009	NCV (Green)	(PIM) Failure to Follow Scaffold Procedure Threatens Fire Protection Equipment	2009004

Site	Region	Event Date	Item Type	Title	Inspection Report Number
CNS	4	3/24/2009	NCV (Green)	(PIM) Control Room Envelope Door Left Open Results in Loss of Safety Function	2009002
CNS	4	12/31/2006	Finding (Green)	(PIM) Failure to Implement Vendor Recommendations Results in a Fire	2006005
CNS	4	6/24/2006	NCV (Green)	(PIM) Failures to Properly Control Combustibles in the Plant	2006003
CNS	4	6/24/2006	FIN	Failure to Implement Fire Fighting Standards	2006003
CNS	4	9/8/2005	Finding (Green)	(PIM) Inadequate Corrective Actions for a Fire in the Multi-Purpose Facility	2005009
CNS	4	9/8/2005	NCV (Green)	(PIM) Failure to Implement the Station Fire Watch Procedure	2005009
CNS	4	3/24/2005	NCV (SL-VI)	Failure to Implement Emergency Plan During a Fire	2005002
CNS	4	12/31/2004	NCV (Green)	(PIM) Failure to Implement the Station Fire Watch Procedure	2004005
CNS	4	3/24/2004	NCV (Green)	(PIM) Ineffective Corrective Actions for Failure to Promptly Identify and Correct Conditions Adverse to Quality(Note: One of three examples. Other examples listed in Mitigating Systems 2004002-04)	2004002

Site	Region	Event Date	Item Type	Title	Inspection Report Number
CNS	4	12/31/2003	Finding (Green)	(PIM) Wooden Tower Cross Arm Fire	2003007
CNS	4	12/31/2003	NCV (Green)	Inadequate Procedure Results in Oil Fire Underneath Main Trubine	2003007
CNS	4	4/3/2003	NCV (Green)	(PIM) Failure to implement the procedural requirements of Administrative Procedure 0.39 "Fire Watches," Revision 27, affected the mitigating systems cornerstone.	2003004
CNS	4	10/5/2002	NCV (Green)	(PIM) NCV of License Condition 2.C.(4) for failure to maintain operability of a fire suppression system.	2002003
CNS	4	1/3/2002	NCV (Green)	(PIM) Failure to follow procedure resulting in a fire	2001007
CNS	4	4/6/2001	NCV (Green)	(PIM) Failure to provide 20 feet separation between redundant service water equipment.	2001003
CNS	4	4/6/2001	NCV (Green)	(PIM) Failure to provide adequate emergency lighting to perform operator actions for safe shutdown.	2001003
CNS	4	4/6/2001	NCV (Green)	(PIM) Failure to install detectors as documented in the safety evaluation report which was not in accordance with 10 CFR 50.48(b).	2001003
CNS	4	4/6/2001	NCV (Green)	(PIM) Failure to perform calculations to ensure that the locations and conditions of fire areas did not require as much water as is discharged by nominal 1/2-inch orifice sprinkler . . .	2001003

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CNS	4	4/1/2000	NCV (Green)	(PIM) APPENDIX R LIGHTING INADEQUATE	2000004
COOK	3	3/31/2010	Finding (Green)	(PIM) Failure to Implement Plant Procedures for Using a Mobile Crane	2010002
COOK	3	12/29/2001	NCV (N/A)	(PIM) Failure to Ensure That Breaker Coordination and Selective Tripping was Provided at the 4.16 kV System	2001019
CP	4	3/19/2011	NonCited Violation (Green)	(PIM) Inadequate Fire Drill Evaluation	2011002
CP	4	9/19/2009	NCV (Green)	(PIM) Failure to Seal Electrical Enclosure	2009004
CP	4	9/21/2008	NCV (Green)	(PIM) "Failure to Ensure Roll-up Fire Doors Complied With Fire Code"	2008004
CP	4	9/21/2008	NCV (Green)	(PIM) "Failure to Control Transient Combustibles"	2008004
CP	4	6/22/2008	NCV (Green)	(PIM) Inadequate Fire Protection Compensatory Actions During Refueling Outage.	2008003
CP	4	6/22/2008	NCV (Green)	(PIM) Failure to Expediently Restore Fire Hose Stations in Containment to Service	2008003
CR	2	9/30/2010	NCV (Green)	(PIM) Inoperable Fire Barrier Penetration Seals	2010004
CR	2	3/31/2010	NCV (Green)	(PIM) Failure to Take Compensatory Actions When a MCR to CSR Floor/Ceiling Interface Access Hatch Was Open	2010002
CR	2	3/31/2001	NCV (Green)	(PIM) Failure to Implement Fire Protection Requirements for Inoperable Fire Damper.	2000005

Site	Region	Event Date	Item Type	Title	Inspection Report Number
CR	2	12/30/2000	NCV (Green)	(PIM) Failure to Implement Fire Protection Plan Requirements When Two Cable Spreading Room Fire Dampers Were Not Operable.	2000004
DAVI	3	6/30/2006	NCV (Green)	(PIM) FIRE PROTECTION, TRANSIENT COMBUSTIBLES ON THE DRY FUEL STORAGE PAD	2006003
DAVI	3	6/30/2005	NCV (Green)	(PIM) INOPERABILITY OF EMERGENCY BATTERY PACKS AND ASSOCIATED LIGHTING CREDITED WITH LICENSEE COMPLIANCE TO 10 CFR 50, APPENDIX R, SECTION III.J	2005007
DAVI	3	1/7/2004	NCV (Green)	(PIM) Process Monitoring Function for Alternative Shutdown Capability	2003010
DAVI	3	1/7/2004	NCV (Green)	(PIM) Emergency Diesel Generator Floor Drains Design Deficiency	2003010
DAVI	3	1/7/2004	NCV (Green)	(PIM) Supporting Functions for Alternative Shutdown Capability	2003010
DIAB	4	6/26/2011	NonCited Violation (Green)	(PIM) Inadequate Fire Hazard Evaluations	2011003
DIAB	4	12/31/2010	NonCited Violation (Green)	(PIM) Failure to Maintain a Fire Barrier	2010005
DIAB	4	12/31/2010	NonCited Violation (Green)	(PIM) Inadequate Transient Combustibles Procedure	2010005

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DIAB	4	9/25/2010	NCV (Green)	(PIM) Failure to Identify a Degraded Fire Barrier	2010004
DIAB	4	9/25/2009	NCV (Green)	(PIM) Failure to Identify and Correct a Degraded Fire Barrier	2009004
DIAB	4	6/30/2009	NCV (Green)	(PIM) Failure to Promptly Declare an Unusual Event	2009003
DIAB	4	9/30/2008	NCV (Green)	(PIM) Failure to Perform a Safety Assessment for Following Discovery of Explosive Gas in the Auxiliary and Containment Buildings	2008004
DIAB	4	2/17/2008	NCV (Green)	(PIM) Failure to Maintain the Integrity of an Auxiliary Building Fire Door	2008002
DIAB	4	8/23/2006	NCV (Green)	(PIM) Failure to Promptly Identify that the Correct Equipment Necessary for Implementing EOP for Inadequate Core Cooling Was Not Pre-staged	2006004
DIAB	4	11/29/2005	NCV (Green)	(PIM) Failure to Promptly Correct Emergency Core Cooling System Check Valve Back-Leakage	2005005
DIAB	4	3/31/2005	NCV (Green)	(PIM) Failure to correct fire program violation concerning qualifications of Operations Responders in support of the fire brigade	2005002
DIAB	4	12/31/2003	NCV (TBD)	(PIM) Failure to Adequately Train Operations Responders in Support of the Fire Brigade	2003008
DIAB	4	9/27/2003	NCV (Green)	(PIM) Two Examples of a Violation of Technical Specification 5.4.1.d for Inadequate Fire Protection Implementation	2003007

Site	Region	Event Date	Item Type	Title	Inspection Report Number
DIAB	4	7/6/2002	NCV (Green)	(Non-PIM) Technical Specification 3.7.6 Not Met When the Fire Water Storage Tank Was Isolated from the Auxiliary Feed Water Pump Suction Because of Personnel Error	2002003
DRES	3	3/31/2009	NCV (Green)	(PIM) Failure to Develop a Pre Fire Plan for Fire Zone 18.6	2009002
DRES	3	6/30/2008	NCV (Green)	(PIM) Fire Doors Failed Their Periodic Functional Test	2008003
DRES	3	6/12/2007	NCV (Green)	(PIM) Failure to Restore Fire Brigade Equipment to a Ready Status in a Timely Manner after the Performance of a Fire Drill	2007003
DRES	3	12/31/2006	NCV (Green)	(PIM) Licensee's Failure to Develop a Pre-fire Plan for Fire Zone 8.2.6.A, Elevation 534'	2006011
DRES	3	6/29/2006	NCV (Green)	(PIM) Failure to Identify an Inoperable 3-hour Fire Barrier Wall in the Unit 2 EDG Day Tank Room	2006007
DRES	3	9/30/2003	NCV (Green)	(PIM) Failure to Meet Technical Specification 5.4.1, Fire Protection Program Implementation for Hot Work Activities	2003007
DRES	3	6/30/2003	NCV (Green)	(PIM) Degraded Mechanical Penetration Fire Barriers	2003006
DRES	3	9/30/2002	NCV (Green)	(PIM) The licensee failed to follow the procedure for ensuring timely fire watch response.	2002012
DRES	3	2/7/2002	NCV (N/A)	(Non-PIM) Failure to ensure erection of scaffold did not adversely affect plant equipment.	2002003

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DRES	3	11/13/2001	NCV (N/A)	(PIM) Failure to have a fire extinguisher readily available, as required by station procedures, while performing hot work activities	2001019
DRES	3	1/4/2001	NCV (Green)	(PIM) Failure of the fire Marshall to properly evaluate fire drill	2000021
DUAN	3	3/31/2008	NCV (Green)	(PIM) FAILURE TO PROPERLY ADMINISTER AND DOCUMENT OVERTIME LIMITS, REQUIREMENTS, AND DEVIATIONS.	2008002
DUAN	3	12/31/2005	NCV (Green)	(PIM) FAILURE TO IDENTIFY AND CONTROL TRANSIENT COMBUSTIBLES IN THE SOUTHEAST CORNER ROOM OF THE REACTOR BUILDING.	2005005
DUAN	3	12/31/2005	NCV (Green)	(PIM) INADEQUATE CORRECTIVE ACTIONS FOR THE CONTROL OF TRANSIENT COMBUSTIBLES.	2005005
DUAN	3	9/30/2005	NCV (Green)	(PIM) FAILURE TO MEET TRAVEL DISTANCE REQUIREMENTS FOR FIRE EXTINGUISHERS IN THE REACTOR BUILDING.	2005004
DUAN	3	7/10/2000	Finding (Green)	(PIM) DURING A WALKDOWN OF THE REACTOR BUILDING, THE INSPECTORS IDENTIFIED THAT SEVERAL PORTABLE FIRE EXTINGUISHERS WERE MISSING FROM THEIR ASSIGNED LOCATION.	2000003
FAR	2	12/31/2010	NCV (Green)	(PIM) Failure to Follow Station Guidance on Use of Extension Cords and Placement of Equipment in Safety-Related Cable Trays (Section 1R05)	2010005

Site	Region	Event Date	Item Type	Title	Inspection Report Number
FAR	2	3/31/2010	NCV (Green)	(PIM) Failure to maintain control of combustible material	2010002
FAR	2	3/31/2010	NCV (Green)	(PIM) Failure to control combustible material in a no intervening combustible allowed area of the plant	2010002
FAR	2	8/16/2000	NCV (Green)	(PIM) FAILURE TO ADEQUATELY MONITOR THE PERFORMANCE AND LUBRICATION OF THE SAFETY RELATED 2A, 2B AND 2D SERVICE WATER PUMP MOTORS	2000004
FCS	4	6/30/2011	NonCited Violation (Green)	(PIM) Failure to Adequately Design a Reactant Coolant Pump Lube Oil Collection System	2011003
FCS	4	9/30/2010	NCV (Green)	Inadequate Maintenance Procedure Results in Water in East Switchgear Room and Room 19	2010004
FCS	4	9/30/2007	Finding (Green)	(PIM) Ineffective Corrective Actions for Hydrazine Spills	2007004
FCS	4	6/30/2006	NCV (Green)	(PIM) Nonfunctional Fire Barrier Separating Corridor 23 (Fire Area 20.1) and Room 61 (Fire Area 20.4)	2006003
FCS	4	11/30/2005	Finding (N/A)	(PIM) Biennial Assessment of Identification and Resolution of Problems	2005009
FCS	4	3/31/2005	NCV (Green)	(PIM) Failure to Control Transient Combustible Materials that Exceeded the Fire Load limit for an Area	2005002

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FCS	4	3/31/2005	NCV (Green)	(PIM) Failure to ensure that fire barriers protecting safety-related areas were functional	2005002
FCS	4	6/30/2004	NCV (Green)	(PIM) Failing to Ensure that Fire Barriers Protecting Safety-Related Areas Were Functional	2004003
FCS	4	6/30/2004	NCV (Green)	(PIM) Failure to Provide Fire Protection Features for Components Important to Achieve and Maintain Cold Shutdown	2004003
FCS	4	6/30/2004	NCV (Green)	(PIM) Failure to Provide Compensatory Measures When Blocking a Fire Hose Station	2004003
FERM	3	9/30/2008	NCV (Green)	(PIM) Failure to Install Smoke Detectors in the Reactor Building, First Floor, Beam Pockets.	2008004
FERM	3	6/30/2007	Finding (Green)	(PIM) Failure to Control Transient Combustibles	2007004
FERM	3	6/30/2006	NCV (Green)	(PIM) Improper Storage of Chemicals Affecting Fire Fighting Response	2006003
FERM	3	6/30/2006	NCV (Green)	(PIM) Unauthorized Transient Combustibles in Safety-Related Areas	2006003
FERM	3	3/31/2006	NCV (Green)	(PIM) Failure to Control Transient Combustibles	2006002
FERM	3	12/30/2005	NCV (Green)	(PIM) Inadequate Corrective Actions To Ensure Availability Of Safe Shutdown Equipment During Fire	2005019
FERM	3	9/30/2003	NCV (Green)	(PIM) Failure to Implement Design Control Processes for Adding Plastic Sleeves on EDG Drain Line.	2003008

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FERM	3	10/5/2001	NCV (N/A)	(PIM) Performance deficiencies in the implementation of the corrective action program	2001016
FITZ	1	9/30/2010	NCV (Green)	(PIM) Appendix R Fire Door Blocked Open Without Establishing Required Measures	2010004
FITZ	1	6/30/2010	NCV (Green)	(PIM) Fire Barrier Penetrations Not Maintained as Qualified Three Hour Fire Barriers	2010003
FITZ	1	9/30/2004	NCV (Green)	(PIM) Transient Combustible Control Requirements for the Screenwell Not Met	2004004
GG	4	6/27/2011	NonCited Violation (Green)	(PIM) Failure to Identify Conditions Adverse to Fire Protection	2011003
GG	4	3/27/2011	NonCited Violation (Green)	(PIM) Transient Combustible Stored in the Fire Exclusion Zone Near the Independent Spent Fuel Storage Installation	2011002
GG	4	9/27/2010	NCV (Green)	(PIM) Degraded Fire Door Barrier Protecting the Safeguards Switchgear Rooms	2010004
GG	4	9/23/2009	NCV (Green)	(PIM) Failure to Maintain Operator Response Times to Fires	2009004
GG	4	6/23/2009	NCV (Green)	(PIM) Failure to Respond to Control Room Alarms in Accordance with Plant Procedures	2009003
GG	4	12/31/2008	Finding (Green)	(PIM) Inadequate Fire Drill Critique	2008005
GG	4	6/21/2008	NCV (Green)	(PIM) Inadequate Fireproofing on Fire Barrier Protecting the Safeguards Switchgear Room	2008003

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GG	4	3/22/2008	NCV (Green)	(PIM) Failure to Implement an Adequate Compensatory Fire Watch per Station Fire Protection Procedures.	2008002
GG	4	9/30/2006	NCV (Green)	(PIM) Failure to Control Loose Items in Safety Related Areas	2006004
GG	4	9/17/2002	NCV (Green)	(PIM) Failure to protect radio repeaters	2002007
GG	4	8/23/2001	NCV (N/A)	(PIM) Licensee Identified that failure to follow procedures resulted in Inadequate Combustible Material Controls	2001006
GG	4	1/22/2001	NCV (Green)	(PIM) Failure to properly install a kaowool nominal 1-hour fire barrier in the Division II switchgear room (Fire Zone OC215).	2001004
GG	4	6/29/2000	Finding (Green)	(PIM) Increased Risk of Loss of Instrument Air System Due to Fire	2000006
GINN	1	3/31/2006	NCV (Green)	(PIM) INADEQUATE CONTROL OF TRANSIENT COMBUSTIBLE MATERIAL	2006002
GINN	1	3/31/2006	NCV (Green)	(PIM) MISSED FIRE BRIGADE DRILLS	2006002
GINN	1	12/31/2005	NCV (Green)	(PIM) Failure to Maintain Fire Protection Procedures as Required by Technical Specification 5.4.1	2005005
GINN	1	12/31/2004	NCV (Green)	(PIM) Failure to Establish Appropriate Measures to Assure the Monitoring Panel for the Compensated Steam Support System is Maintained	2004005

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GINN	1	3/29/2003	NCV (Green)	(PIM) Intermittent control room roof leakage not identified and repaired	2003003
GINN	1	12/28/2002	Finding (Green)	(PIM) Failure to implement all aspects of the fire attack strategy	2002006
GINN	1	9/28/2002	NCV (Green)	(PIM) A natural gas supply isolation valve to the screenhouse had been covered by several inches of gravel and asphalt pavement and could not be operated during a fire.	2002005
GINN	1	5/18/2002	NCV (Green)	(PIM) Failure to formally control and evaluate a compensatory fire protection measure installed to provide a temporary water supply to the containment fire hose reels.	2002003
GINN	1	12/30/2000	NCV (Green)	(PIM) Failure to adequately establish a continuous fire watch.	2000010
HAR	2	6/30/2010	NCV (Green)	Reactor Trip due to Failing to Properly Assemble an Oil Filter in the Hydrogen Seal Oil System	2010003
HAR	2	4/5/2003	NCV (Green)	(PIM) INADEQUATE ROVING CONTINUOUS FIRE WATCHES	2003002
HAR	2	12/29/2001	NCV (Green)	(PIM) TWO EXAMPLES OF FAILURE TO IMPLEMENT THE FIRE PROTECTION PROGRAM IN B CABLE SPREADING ROOM TUNNEL	2001005
HAR	2	9/29/2001	NCV (Green)	(PIM) INADEQUATE FUSE COORDINATION FOR PORV BLOCK VALVES	2001004

Site	Region	Event Date	Item Type	Title	Inspection Report Number
HAR	2	4/1/2000	NCV (Green)	(PIM) Fire protection wrap/penetration seal interface problems	This NCV was found in the integrated report 2000001. This NCV should be a finding under quarterly procedure.
HAT	2	3/31/2011	NonCited Violation (Green)	(PIM) Inaccessbile fire hose station in the cable spreading room	2011002
HAT	2	6/30/2009	NCV (Green)	(PIM) Failure to Maintain Fire Brigade Minimum Staffing	2009003
HAT	2	6/30/2001	NCV (Green)	(PIM) Inadequate Separation of Residual Heat Removal Service Water (RHRSW) Cables.	2001003
HOPE	1	9/30/2004	NCV (Green)	(PIM) INADEQUATE CONTROL OF TRANSIENT COMBUSTIBLE MATERIAL	2004004
HOPE	1	3/30/2004	NCV (Green)	(PIM) IMPROPER CONTROL OF TRANSIENT COMBUSTIBLES IN CORE SPRAY ROOM	2004002
HOPE	1	9/30/2002	NCV (Green)	(PIM) PSEG NUCLEAR DID NOT IDENTIFY AND ADMINISTRATIVELY CONTROL TRANSIENT COMBUSTIBLES MATERIALS IN THE HPCI PUMP AND TURBINE ROOM	2002006
HOPE	1	12/29/2001	NCV (Green)	(PIM) PSEG NUCLEAR DID NOT IDENTIFY AND ADMINISTRATIVELY CONTROL TRANSIENT COMBUSTIBLES MATERIALS IN THE HPCI PUMP AND TURBINE ROOM	2001011

Site	Region	Event Date	Item Type	Title	Inspection Report Number
HOPE	1	12/29/2001	NCV (Green)	(PIM) PSEG NUCLEAR DID NOT PROPERLY IMPLEMENT FIRE PROTECTION PROGRAM REQUIREMENTS FOR AN INOPERABLE FIRE DOOR	2001011
HOPE	1	3/31/2001	NCV (Green)	(PIM) FAILURE TO PROVIDE A THREE-HOUR RATED FIRE BARRIER TO ENSURE APPENDIX R SEPARATION BETWEEN TWO SHUTDOWN TRAINS.	2001004
INP3	1	7/1/2010	NCV (Green)	Procedural Requirements for N-38 Component Classification for Preventative Maintenance Not Implemented	2010003
INP3	1	3/31/2004	NCV (Green)	(PIM) INADEQUATE IMPLEMENTATION OF FIRE PROTECTION PROCEDURES	2004002
INPT	1	3/31/2009	NCV (Green)	(PIM) Failure to Identify Damaged Components in EDG Ventilation Motor Control Center #2	2009002
INPT	1	3/31/2009	NCV (Green)	(PIM) Failure to Identify and Promptly Correct Degraded 480 Volt Switchgear Room Fire Door	2009002
INPT	1	12/31/2007	NCV (Green)	(PIM) FAILURE TO IDENTIFY DEGRADED FIRE BARRIER IN EDG BUILDING	2007005
INPT	1	10/3/2007	NCV (Green)	(PIM) Degraded 12 Fire Main Booster Pump Cell Fire Door	2007004
INPT	1	6/30/2006	NCV (Green)	(PIM) FAILURE TO IDENTIFY DEGRADED RESIDUAL HEAT REMOVAL PUMP CELL FIRE DOOR	2006003
INPT	1	1/29/2006	NCV (Green)	(PIM) DEGRADED RESIDUAL HEAT REMOVAL PUMP FIRE DOOR	2006002

Site	Region	Event Date	Item Type	Title	Inspection Report Number
INPT	1	4/2/2005	NCV (Green)	(PIM) FAILURE TO IMPLEMENT ADEQUATE INTERIM COMPENSATORY MEASURES FOR FIRE BARRIER IMPAIRMENTS	2005002
INPT	1	7/20/2004	NCV (Green)	(PIM) Failure to implement appropriate design controls for electrical cable and raceway installations.	2004009
INPT	1	3/31/2004	NCV (Green)	(PIM) NON-CITED VIOLATION OF TS 5.4.1.d FOR THE FAILURE TO PERFORM A TRANSIENT COMBUSTIBLE EVALUATION FOR 330 GALLONS OF OIL TEMPORARILY STORED IN FIRE ZONE 6A	2004002
INPT	1	7/7/2001	NCV (N/A)	(PIM) FIRE PROTECTION DESIGN BASIS COMBUSTIBLE LOADING	2001006
INPT	1	7/7/2001	Finding (N/A)	(PIM) SEVERAL EVENTS THAT WERE INDICATIVE OF AN ADVERSE TREND IN HUMAN PERFORMANCE	2001006
INPT	1	9/30/2000	NCV (Green)	(PIM) A minor fire inside containment occurred due to a failure to properly evaluate and control transient combustibles during a grinding evolution	2000011
INPT	1	9/30/2000	NCV (Green)	(PIM) Inadequate fire fighting strategy instruction existed to align fire suppression water to containment	2000011
INPT	1	9/30/2000	NCV (Green)	(PIM) During implementation of a plant modification, workers failed to perform a work area walkdown, pre-job brief, and review of removal drawings	2000011
KEWA	3	12/31/2006	NCV (Green)	(PIM) Inadequate Pre-Fire Strategy Identified in Cable Spreading Room	2006005

Site	Region	Event Date	Item Type	Title	Inspection Report Number
KEWA	3	6/30/2005	NCV (Green)	(PIM) Failure to minimize prior identified and predictable explosive gas concentrations in the WGDTs	2005008
KEWA	3	12/31/2004	NCV (Green)	(PIM) Inadequate Control Of Combustible Materials	2004009
KEWA	3	12/31/2004	NCV (Green)	(PIM) Inadequate Corrective Action to Preclude Storage of Oxygen Cylinders Next to Flammable Gas Cylinders	2004009
KEWA	3	12/31/2004	NCV (Green)	(PIM) Failure to Identify Inadequate Pre-Fire Strategies	2004009
KEWA	3	7/30/2004	NCV (Green)	(PIM) Failure to Maintain Acceptable (Quality Related) Pre-Fire Strategies	2004005
KEWA	3	10/1/2002	NCV (Green)	(PIM) Inappropriate Placement of Diesel Generator Room Heat Detectors	2002006
KEWA	3	9/30/2002	NCV (Green)	(PIM) Failure to Provide Appendix R Barriers Between Dedicated and Alternate Fire Zones	2002005
KEWA	3	3/31/2001	NCV (Green)	(PIM) FIRE DOOR FUSIBLE LINKS.	2001006
KEWA	3	2/13/2001	NCV (Green)	(PIM) Failure to Test Fire Door in Accordance with Fire Plan	Inspection report 2001004 This NCV should be in the annual/quarterly finding.
KEWA	3	5/22/2000	Finding (Green)	(PIM) FIRE EXTINGUISHERS NOT LOCATED IN ALL AREAS OF CONTAINMENT BUILDING AT BEGINNING OF REFUELING OUTAGE.	2000007

Site	Region	Event Date	Item Type	Title	Inspection Report Number
LASA	3	6/24/2009	NCV (Green)	(PIM) Failure to implement a fire protection program procedure for combustible controls	2009003
LASA	3	9/30/2006	NCV (Green)	(PIM) Failure to Promptly Repair a Degraded Condition Associated with the 2B EDG Day Tank Room Structure	2006005
LASA	3	9/30/2006	NCV (Green)	(PIM) Failure to Promptly Repair a Degraded Condition Associated with the 2B EDG Day Tank Room Structure	2006005
LASA	3	6/30/2005	NCV (Green)	(PIM) Failure to Properly Implement Fire Protection Procedure Requirements for Hot Work and Ignition Control Issues.	2005003
LASA	3	6/30/2005	NCV (Green)	(PIM) Failure to Properly Implement Fire Protection Procedure Requirements for Hot Work and Ignition Control Issues.	2005003
LASA	3	3/31/2005	NCV (Green)	(PIM) Failure to Properly Implement Procedure Requirements for Hot Work and Ignition Control Results in a Fire in the 2B RHR Corner Room	2005002
LASA	3	3/31/2005	NCV (Green)	(PIM) Failure to Take Timely and Effective Corrective Action for Hot Work Ignition Control Issues	2005002
LASA	3	9/30/2003	NCV (Green)	(PIM) Failure to properly delineate what actions can be performed by plant personnel without having appropriate written procedures or instructions results in inoperable and unavailable EDG.	2003004
LASA	3	9/30/2002	NCV (Green)	(PIM) Essential Switchgear Room Degraded Fire Barriers	2002005

Site	Region	Event Date	Item Type	Title	Inspection Report Number
LASA	3	9/30/2000	Finding (Green)	(PIM) The inspectors completed the assessment of an issue identified involving two holes between the U1, Div 1 and U1, Div 2 Essential Switchgear Rooms.	2000013
LASA	3	9/30/2000	NCV (Green)	(Non-PIM) 3-Hour Fire Barrier Degradation	2000013
LIM	1	9/30/2010	NCV (Green)	(PIM) Failure to Take Compensatory Action for Inoperable Fire Door	2010004
MCG	2	3/31/2010	NCV (SL-IV)	(PIM) Failure to adequately update the UFSAR for FPP documents incorporated by reference	2010002
MCG	2	6/30/2009	NCV (Green)	(PIM) Failure to Adequately Implement Design Control Measures For Fire Protection	2009003
MCG	2	3/31/2006	NCV (Green)	(PIM) Failure to Take Adequate Corrective Action for Repetitive Fire Strategy Plan Deficiencies	2006002
MCG	2	6/30/2005	NCV (Green)	(PIM) Failure to Have Adequate Procedures to Implement Fire Mitigation Actions For Containment	2005003
MCG	2	6/30/2005	NCV (Green)	(PIM) Failure to Have Adequate Procedures to Implement SLC Test Requirements for Fire Protection Sprinklers	2005003
MCG	2	6/12/2004	NCV (Green)	(PIM) Failure to update fire strategy plans when a modification removed numerous extinguishers.	2004004
MCG	2	3/13/2004	NCV (Green)	(PIM) Failure to have pre-fire plans for the Unit 1 and 2 interior and exterior doghouses	2004003
MCG	2	3/13/2004	NCV (SL-IV)	(PIM) Failure to update the UFSAR - (two examples)	2004003
MCG	2	3/13/2004	NCV (Green)	(PIM) Failure to have a rated 3-hour barrier around the SSF power system	2004003

Site	Region	Event Date	Item Type	Title	Inspection Report Number
MCG	2	6/21/2003	NCV (Green)	(PIM) Corrective actions not adequate to prevent second fire from occurring on the roof of EDG 1A	2003003
MILL	1	6/30/2005	NCV (Green)	(PIM) FAILURE TO EVALUATE EXCEEDING SPECIFIED FIRE LOADING LIMIT FOR MAIN STEAM VALVE ENCLOSURE	2005003
MILL	1	6/29/2002	NCV (Green)	(PIM) FAILURE TO MAINTAIN FIRE BARRIER REQUIREMENTS DESCRIBED IN THE PLANT FIRE HAZARDS ANALYSIS	2002004
MILL	1	8/11/2001	Finding (Green)	(PIM) LICENSEE'S ON-SITE FIRE BRIGADE TEAM RECEIVED A FAILING GRADE FOLLOWING AN UNANNOUNCED FIRE DRILL DUE TO DEGRADATION OF A FIRE PROTECTION DEFENCE-IN-DEPTH FEATURE	2001006
MILL	1	2/10/2001	Finding (Green)	(Non-PIM) THE POWER CABLE FOR CHARGING PUMP 3CHS*P3B WAS INAPPROPRIATELY ROUTED THROUGH THE FIRE AREA HOUSING THE REACTOR PLANT COMPONENT COOLING WATER PUMPS SINCE PLANT CONSTRUCTION	2000014
MILL	1	9/30/2000	NCV (Green)	(PIM) INADEQUATE DESIGN CONTROL MEASURES LEAD TO FAILURE TO DISABLE CLOSING CAPABILITY FOR VALVE AS REQUIRED BY APPENDIX R	2000011
MILL	1	7/1/2000	NCV (Green)	(PIM) FAILURE TO MAINTAIN FIRE FIGHTING STRATEGIES	2000008
MONT	3	12/31/2010	Finding (Green)	(PIM) FAILURE TO PROPERLY STORE LOOSE MATERIAL IN CLOSE PROXIMITY TO SAFETY RELATED EQUIPMENT.	2010005

Site	Region	Event Date	Item Type	Title	Inspection Report Number
MONT	3	12/31/2006	NCV (Green)	(PIM) LICENSEE ANNOUNCED FIRE DRILL IMPLEMENTATION PRACTICE INCONSISTENT WITH THE REQUIREMENTS OF APPENDIX R.	2006005
MONT	3	6/30/2006	Finding (Green)	(PIM) IMPROPER LOOSE MATERIAL STORAGE ADJACENT TO LPCI COMPONENTS.	2006003
MONT	3	3/20/2004	NCV (Green)	(PIM) FAILURE TO FOLLOW FIRE PROTECTION PROGRAM PROCEDURES WHICH REQUIRE THAT CHANGES MADE TO THE FIRE PROTECTION PROGRAM BE EVALUATED FOR IMPACTS TO SAFE-SHUTDOWN CAPABILITIES.	2004002
MONT	3	3/20/2004	NCV (Green)	(PIM) FAILURE TO TAKE PROMPT AND ADEQUATE CORRECTIVE ACTIONS TO CORRECT PRE-FIRE STRATEGIES.	2004002
MONT	3	5/30/2001	NCV (Green)	(PIM) FIRE PROTECTION ADMINISTRATIVE CONTROLS.	2001005
NA	2	6/30/2011	NonCited Violation (Green)	(PIM) Failure to Control Transient Fire Loads in a Safety-Related Area	2011003
NA	2	6/30/2011	NonCited Violation (Green)	(PIM) Failure to Maintain Fire Doors in Accordance with the Fire Protection Program	2011003
NA	2	12/31/2010	Unresolved item (N/A)	(Non-PIM) Appendix R Fire Protection for RCS Instrumentation in Containment	2010005
NA	2	12/31/2010	NCV (Green)	Failure to Maintain PM Procedures for Circuit Breakers Current with Industry Information and OE	2010005
NA	2	3/31/2010	NCV (Green)	(PIM) Inadequate Procedure Implementation Results in Inoperability of a Fire Suppression System	2010002

Site	Region	Event Date	Item Type	Title	Inspection Report Number
NA	2	10/15/2009	NCV (Green)	(PIM) Failure to Adequately Design and Install Oil Collection Devices for Reactor Coolant Pump Motor Stator Air Coolers	2009004
NA	2	12/31/2008	NCV (Green)	(PIM) Reactor Coolant Pump Motor Oil Collection System Installation and Design Problems	2008005
NA	2	1/30/2008	NCV (Green)	(PIM) Failure to Adequately Install an Oil Collection System on a Reactor Coolant Pump Motor	2008002
NA	2	12/31/2006	NCV (Green)	(PIM) Failure to Identify Unsatisfactory Performance of a Fire Brigade Crew	2006005
NA	2	12/31/2004	NCV (Green)	(PIM) Fire Response Procedures Not Adequate to Maintain Reactor Coolant Level Within the Level Indication of the Pressurizer (Section 4OA5)	2004006
NA	2	3/31/2001	NCV (Green)	(PIM) Inadequate procedural guidance for implementing alternate shutdown for a fire in the emergency switchgear room	2000006
NA	2	3/31/2001	NCV (Green)	(PIM) Failure to analyze for the affect on the post-fire safe shutdown capability of fire-induced failures of the main feedwater system	2000006
NMP	1	9/28/2007	NCV (Green)	(PIM) Inadequate Procedure for Installation of a Design Change Resulted in Inadvertent Discharge of the CO2 Suppression System	2007004
NMP	1	11/4/2005	Finding (N/A)	(PIM) Identification and Resolution of Problems	2005007
NMP	1	3/31/2004	NCV (Green)	(PIM) Barrier Breach Permits Cleared while Associated Fire Doors were Still Inoperable	2004002
NMP	1	12/31/2003	NCV (Green)	(PIM) Degraded Penetration Fire Seal not Identified in a Timely Manner.	2003006

Site	Region	Event Date	Item Type	Title	Inspection Report Number
NMP	1	2/10/2001	NCV (Green)	(PIM) INADEQUATE CORRECTIVE ACTIONS ASSOCIATED WITH FIRE DAMPERS.	2000011
NMP	1	2/10/2001	NCV (Green)	(PIM) FAILURE TO FOLLOW PROCEDURE ASSOCIATED WITH FIRE DAMPER SURVEILLANCE TEST.	2000011
OC	1	6/30/2008	NCV (Green)	(PIM) Diesel Driven Fire Pump Unavailable Due to Improper Testing	2008003
OC	1	3/31/2007	NCV (Green)	(PIM) Improper Identification of an Inoperable Fire Barrier Door	2007002
OC	1	9/30/2006	NCV (Green)	(PIM) Fire Protection Plan Requirements Not Implemented	2006004
OC	1	8/11/2001	NCV (Green)	(PIM) Routine Fire Protection Walkdowns	2001007
OC	1	3/16/2001	NCV (Green)	(PIM) Fire Protection	2001003
OC	1	11/18/2000	Finding (N/A)	(PIM) Personnel Performance During Non-routine Plant Evolutions and Events	2000008
OC	1	11/18/2000	Finding (N/A)	(PIM) Personnel Performance During Non-routine Plant Evolutions and Events	2000008
OC	1	11/18/2000	NCV (Green)	(PIM) Fire Protection	2000008
OCO	2	4/30/2010	NCV (Green)	(PIM) Failure to Identify and Correct Fire Brigade Performance Weaknesses	2001002
OCO	2	4/5/2003	NCV (Green)	(PIM) Failure to Evaluate Combustible Material in the KHU Complex	2003002

Site	Region	Event Date	Item Type	Title	Inspection Report Number
OCO	2	9/30/2000	NCV (Green)	(PIM) Failure to Evaluate Flammable Material Use in the Unit 2 East Penetration Room	2000006
PALI	3	3/31/2010	NCV (Green)	(PIM) Improper Construction of Scaffolding	2010002
PALI	3	3/31/2010	NCV (Green)	(PIM) Inadequate Fire Barrier	2010002
PALI	3	3/31/2008	NCV (Green)	(PIM) Failure to Ensure Fire Door Was Closed	2008002
PALI	3	12/31/2004	Finding (Green)	(PIM) Condensate Pump Motor Bearing Fire Resulted in Manual Reactor Trip	2004012
PALI	3	7/27/2001	NCV (Green)	(PIM) Smoke Detectors Inadequate - Southern Portions of Cable	2001008
PALI	3	7/27/2001	NCV (Green)	(PIM) Smoke Detectors Inadequate - 1-D Switchgear Room	2001008
PALO	4	9/30/2009	NCV (Green)	(PIM) Failure to Follow Procedures Results in Loss of Ventilation to Safety-Related Equipment	2009004
PALO	4	6/30/2009	NCV (Green)	(PIM) Inoperable Fire Barrier Door for Emergency Diesel Generator Train B	2009003
PALO	4	3/31/2009	NCV (Green)	(PIM) Failure to Periodically Inspect or Test, and Repair Fire Penetration Seals	2009002
PALO	4	6/30/2008	NCV (Green)	(PIM) Fire in Pressurizer Cubicle due to Poor Work Practices	2008003
PALO	4	3/31/2006	NCV (Green)	(PIM) INADEQUATE DIESEL FIRE PUMP BATTERY SURVEILLANCE	2006002

Site	Region	Event Date	Item Type	Title	Inspection Report Number
PB	1	9/29/2008	NCV (SL-IV)	(PIM) Failure to Make a 10 CFR 50.72(b)(2)(xi) Notification	2008004
PB	1	3/31/2008	NCV (Green)	(PIM) Failure to Identify and Document Fire Brigade Deficiencies	2008002
PB	1	6/30/2007	Finding (Green)	(PIM) Inadequate Implementation of Work Order Instructions Caused the Installation of an Incorrect Size Breaker and Resulted in a Fire in the '4T4' 480 Volt Load Center	2007003
PB	1	6/30/2007	NCV (Green)	(PIM) Procedural Compliance Issues Result in Damage to the Diesel Driven Fire Pump	2007003
PERR	3	9/30/2008	NCV (Green)	(PIM) Impaired Fire Barrier for Safety-Related Building	2008004
PERR	3	6/30/2007	NCV (Green)	(PIM) IMPROPER STORAGE OF COMBUSTIBLE MATERIAL	2007003
PERR	3	6/30/2006	NCV (Green)	(PIM) FAILURE TO PROMPTLY CORRECT A TESTING DEFICIENCY AFFECTING A REACTOR CORE ISOLATION COOLING REMOTE SHUTDOWN SYSTEM FUNCTION	2006003
PERR	3	9/30/2005	NCV (Green)	(PIM) FAILURE TO EVALUATE INTERFERENCE WITH THE DESIGN RATTLE SPACE BETWEEN SAFETY CLASS BUILDINGS	2005009
PERR	3	12/31/2004	Finding (Green)	(PIM) FAILURE TO PROMPTLY IDENTIFY A DEGRADED FIRE BARRIER	2004015
PERR	3	9/30/2003	Finding (Green)	(PIM) FAILURE TO MAINTAIN FIRE BARRIERS	2003006

Site	Region	Event Date	Item Type	Title	Inspection Report Number
PERR	3	3/31/2003	Finding (Green)	(PIM) FAILURE TO PROMPTLY IDENTIFY AND CORRECT DEGRADED FIRE BARRIER	2003003
PILG	1	6/30/2011	NonCited Violation (Green)	(PIM) Transient Combustible Loading in SLC Room in Excess of the Fire Hazards Analysis Limit	2011003
POIN	3	9/30/2010	NCV (Green)	(PIM) Failure to Identify Hydrogen Fire Hazards on Pre-Fire Plan	2010004
POIN	3	3/31/2010	NCV (Green)	(PIM) Failure To Establish Required Fire Watches	2010002
POIN	3	6/30/2008	NCV (Green)	(PIM) Failure to Address Sprinkler Head Obstructions in 'B' Train EDG Rooms	2008003
POIN	3	11/3/2004	NCV (Green)	(PIM) Failure to Implement a Molded-Case Circuit Breaker Test Program	2004008
POIN	3	6/30/2004	NCV (Green)	(PIM) Loss of Transient Combustible Control in the Containment and Turbine Buildings During a Unit 1 Refueling Outage	2004003
POIN	3	3/31/2004	NCV (Green)	(PIM) Sprinkler Head Locations Not in Accordance with Fire Code	2004002
POIN	3	12/31/2003	NCV (Green)	(PIM) Inadequate Corrective Actions for Control of Transient Combustibles	2003009
POIN	3	5/8/2001	NCV (Green)	(PIM) REPLACEMENT OF CHARGING PUMP CONTROL POWER FUSE OUTSIDE APPENDIX R DESIGN BASIS	2001008
POIN	3	5/8/2001	NCV (Green)	(PIM) POSTULATED FIRE COULD LEAD TO LOSS OF REDUNDANT TRAINS OF CHARGING PUMPS	2001008

Site	Region	Event Date	Item Type	Title	Inspection Report Number
POIN	3	5/8/2001	NCV (Green)	(PIM) REDUNDANT INSTRUMENT CABLES WERE LOCATED WITHIN 20 FEET OF EACH OTHER IN THE UNITS 1 AND 2 CONTAINMENTS	2001008
POIN	3	5/8/2001	NCV (Green)	(PIM) FAILURE TO INSTALL THE FIRE STOPS IN A CONFIGURATION WHICH WOULD PREVENT PROPAGATION OF FIRE FROM ONE REDUNDANT TRAIN TO ANOTHER	2001008
POIN	3	2/12/2001	NCV (Green)	(PIM) INADEQUATE CONTROL OF CABLE SPREADING ROOM HIGH ENERGY LINE BREAK BARRIER.	2001003
PRAI	3	12/31/2008	NCV (Green)	(PIM) RESPIRATOR QUALIFICATION DEFICIENCY RESULTS IN NON-COMPLIANCE WITH 10 CFR PART 50, APPENDIX R	20080005
PRAI	3	6/30/2005	NCV (Green)	(PIM) INADEQUATE CONTROL OF TRANSIENT COMBUSTIBLES	2005004
PRAI	3	9/30/2002	NCV (Green)	(PIM) FAILURE TO CORRECT DEFICIENCIES ADVERSE TO QUALITY INVOLVING POTENTIAL FLOW DIVERSION PATHS	2002008
QUAD	3	12/31/2008	Finding (Green)	(PIM) EXPLOSION OF THE FDSgT VESTIBULE.	2008005
QUAD	3	3/31/2008	NCV (Green)	(PIM) 1/2 "A" DIESEL FIRE PUMP OIL LEAK AND FIRE	2008002
QUAD	3	9/30/2005	NCV (Green)	(PIM) 4160 VOLT RELAYING AND METERING SINGLE FAILURE VULNERABILITY	2005005

Site	Region	Event Date	Item Type	Title	Inspection Report Number
QUAD	3	6/30/2005	NCV (Green)	(PIM) FAILURE TO IMPLEMENT CORRECTIVE ACTIONS FOR THE TWO PREVIOUS BUS OVERLOAD EVENTS	2005003
QUAD	3	3/31/2003	NCV (Green)	(PIM) FAILURE TO MAINTAIN ADEQUATE SPATIAL SEPARATION OF FLAMMABLES FROM THE DIESEL DRIVEN FIRE PUMPS	2003003
QUAD	3	9/30/2000	NCV (Green)	(PIM) Degraded condition of fire door 128	2000014
RBS	4	6/30/2005	NCV (Green)	(PIM) Failure to inspect portable fire extinguishers within the required frequency	2005003
RBS	4	3/31/2004	NCV (Green)	(PIM) Failure to adequately address roof leaks in the auxiliary building resulted in electrical grounds on safety-related switchgear	2004002
RBS	4	8/1/2001	NCV (Green)	(PIM) Failure to maintain fire barrier requirements described in the plant fire hazards analysis.	2001003
RBS	4	3/31/2001	NCV (Green)	(PIM) Failure To Maintain A Fire Barrier Between Two Fire Areas Which Contain Redundant Safe Shutdown Equipment	2000016
RBS	4	11/11/2000	NCV (Green)	(PIM) Failure to adequately assess and conduct fire drills	2000014
SALM	1	6/30/2011	NonCited Violation (Green)	(PIM) IMPROPER CONTROL OF TRANSIENT COMBUSTIBLE MATERIAL	2011003
SALM	1	12/30/2008	NCV (Green)	(PIM) IMPROPER CONTROL OF TRANSIENT COMBUSTIBLE MATERIAL	2008005

Site	Region	Event Date	Item Type	Title	Inspection Report Number
SALM	1	9/30/2002	NCV (Green)	(PIM) PSEG NUCLEAR FAILED TO PROPERLY MAINTAIN ROOM ISOLATION BARRIERS AND IMPROPERLY IMPLEMENTED A MODIFICATION TO THE SWITCHGEAR PENETRATION AREA VENTILATION SYSTEM	Opened in 2002007 and discussed in 2002009
SALM	1	11/10/2001	NCV (Green)	(PIM) PSEG NUCLEAR FAILED TO PROPERLY CONTROL TRANSIENT COMBUSTIBLE MATERIALS WITHIN THE UNIT 1 SPENT FUEL POOL	2001010
SANO	4	1/4/2010	NCV (Green)	(PIM) Failure to Implement Fire Protection Plan Requirements Related to Hot Work Activities	2010002
SANO	4	6/2/2009	NCV (Green)	(PIM) Failure to Evaluate the Impact of Temporary Scaffolding on Installed Fire Protection Systems	2009003
SANO	4	6/1/2005	NCV (Green)	(PIM) Failure to Implement Fire Protection Plan Requirements Related to Hot Work Activities	2009005
SANO	4	4/8/2000	NCV (Green)	(PIM) Failure to follow procedure for transient combustible material in battery rooms.	2000007
SEAB	1	6/30/2011	NonCited Violation (Green)	(PIM) Inadequate Control of Combustible Materials	2011003
SEQ	2	12/31/2010	NCV (Green)	(PIM) Failure to collect reactor coolant pump oil leakage	2010005
SEQ	2	3/31/2008	NCV (Green)	(PIM) Inadequate Tagging Procedure	2008002

Site	Region	Event Date	Item Type	Title	Inspection Report Number
SEQ	2	12/31/2006	NCV (Green)	(PIM) Unprotected Power Cables to Vital Inverters in the Unit 1 480V Board Room 1B	2006005
SEQ	2	12/31/2006	NCV (Green)	(PIM) Inadequate 20-foot Separation Zones for Fire Protection in Unit 1 480V Board Room 1B	2006005
SEQ	2	12/31/2006	NCV (Green)	(PIM) Failure to Maintain Lighting for Time-Critical Local Manual Actions for Post-Fire Safe Shutdown	2006005
SEQ	2	3/31/2006	NCV (Green)	(PIM) Inadequate Procedure Results in Blocked Sprinkler Head Without Compensatory Actions	2006002
SEQ	2	3/27/2004	NCV (Green)	(PIM) Inappropriate Change to the Approved Fire Protection Program	2004002
SEQ	2	12/27/2003	NCV (Green)	(PIM) Failure to Implement Timely and Appropriate Fire Protection Compensatory Measures	2003006
STL	2	9/30/2008	NCV (Green)	(PIM) Failure to Identify and Correct an Open and Degraded Missile Shield Door	2008004
STL	2	12/31/2005	NCV (Green)	(PIM) Failure to take timely and effective corrective actions to control hot work activities while being planned or performed to prevent recurrence	2005005
STL	2	10/31/2003	NCV (Green)	(PIM) Failure to Evaluate Combustible Loading of Silicone Oil-Filled Transformers in the FHA and the Effect on SSD Capability	2003013
STL	2	9/29/2001	NCV (Green)	(PIM) Failure to Maintain Control of Fire Alarm Computer Design Features Required by the NRC Approved Fire Protection Program	2001004

Site	Region	Event Date	Item Type	Title	Inspection Report Number
STL	2	9/29/2001	NCV (Green)	(PIM) Inadequate Implementation of Interim Corrective Actions to Compensate for a Degraded Fire Alarm Computer	2001004
STL	2	6/30/2001	NCV (Green)	(PIM) Inoperable Cable Spreading Room Smoke Detector	2001003 This is not a triennial inspection. The findings were obtained in a IR but appeared under the triennial website search.
STL	2	6/30/2001	NCV (Green)	(PIM) Fire Detection Electrical Monitoring System Not in Accordance with Requirements	2001003 This is not a triennial inspection. The findings were obtained in a IR but appeared under the triennial website search.
STL	2	6/30/2001	NCV (Green)	(PIM) Inadequate Testing of Sprinkler System	2001003 This is not a triennial inspection. The findings were obtained in a IR but appeared under the triennial website search.
STP	4	6/30/2011	NonCited Violation (Green)	(PIM) Inadequate Fire Protection System Functionality Procedure Results in Failure to Establish Fire Watches	2011003

Site	Region	Event Date	Item Type	Title	Inspection Report Number
STP	4	12/31/2010	NonCited Violation (Green)	(PIM) Failure to Install the Required Number of Smoke Detectors (4) in the Auxiliary Shutdown Rooms	2010005
STP	4	9/27/2008	NCV (Green)	(PIM) Failure to Follow Procedures Resulted in Isolation of Majority of Fire Water	20008004
STP	4	4/7/2006	NCV (Green)	(PIM) Inadequate Motor-Operated Valve Operation Method	2006002
STP	4	4/7/2006	NCV (Green)	(PIM) Inadequate Alternate Shutdown Analysis	2006002
SUM	2	6/30/2010	NCV (Green)	Inadequate Station Tagout Procedure for Controlling Safety and Non-safety Related Grounding Equipment Results in Loss of All Balance of Plant Power and Switchgear Fires	2010003
SUR	2	2/28/2011	Violation (SL-IV)	(PIM) Inaccurate Fire Watch Records	2011012
SUR	2	9/30/2009	NCV (Green)	(PIM) Ineffective Action for ELU Performance Deficiencies	2009004
SUR	2	9/30/2009	NCV (Green)	(PIM) Inadequate Compensatory Measures for the Impairment of Fire Detection Systems	2009004
SUR	2	12/31/2007	NCV (Green)	(PIM) Temporary Fire Suppression Capacity Not Equivalent to Unit 1 Containment Fire Hose Stations	2007005
SUR	2	4/5/2003	NCV (Green)	(PIM) Failure to Properly Evaluate and Approve the Storage of Flammable Materials in the Vicinity of Safety-related Equipment	2003002

Site	Region	Event Date	Item Type	Title	Inspection Report Number
SUR	2	6/30/2001	NCV (Green)	(PIM) Failure to implement a fire brigade drill program as required by Surry License Condition 3.I	2001002
SUSQ	1	12/31/2009	NCV (Green)	(PIM) Insufficient Fire Drill Oversight to Ensure Fire Brigade Performance Deficiencies are Identified	2009005
SUSQ	1	9/30/2009	NCV (Green)	(PIM) Failure to Implement and Maintain the Fire Protection Program with Respect to the use and Storage of Combustibles in the Control Structure	2009004
SUSQ	1	6/30/2006	NCV (Green)	(PIM) Ineffective Corrective Actions to Assure Training and Qualification of Workers as Required by 10 CFR 50 Appendix B, Criterion XVI	2006003
SUSQ	1	9/30/2004	Finding (Green)	(PIM) Diesel Driven Fire Pump Lack of Engine Cooling	2004004
TMI	1	9/30/2010	NCV (Green)	(PIM) Deficient Control of Transient Material in Seismic Class I Buildings	2010004
TMI	1	4/18/2008	NCV (Green)	(PIM) Failure to Require Emergency Lighting Units (ELUs)	2008006
TMI	1	3/31/2005	NCV (Green)	(PIM) Failure to Maintain Fire Barriers for the 'A' and 'B' Makeup Pump Rooms	2005002
TMI	1	12/30/2000	NCV (Green)	(PIM) Failure to Implement Compensatory Measures for an Inoperable Battery Room Fire Door	2000008
TP	2	12/31/2010	NCV (Green)	(PIM) Scaffold blocked access to fire areas used in a control room evacuation event	2010005
TP	2	6/30/2008	Finding (Green)	(PIM) Maintenance causes smoke and fumes to enter the control room causing fire alarms.	2008003

Site	Region	Event Date	Item Type	Title	Inspection Report Number
TP	2	12/31/2007	NCV (Green)	(PIM) Failure to implement the fire protection program: unapproved transient combustibles in the cable spreading room	2007005
TP	2	9/30/2007	Finding (Green)	(PIM) Recurring Problems with Alternate Shutdown Communication Equipment	2007004
TP	2	9/30/2005	Finding (Green)	(PIM) Inadequate Installation of a Seal Assembly Resulted in an Oil Fire and Reactor Trip	2005004
TP	2	9/25/2004	NCV (Green)	(PIM) Inadequate Corrective Action for Scaffold Construction Deficiencies	2004004
VY	1	9/30/2006	Finding (Green)	(PIM) Vermont Yankee Did Not Correct Conditions Leading to the Continued Accumulation of Dust on Non-Safety Related Electrical Bus Grounding Resistors	2006004
VY	1	9/30/2004	Finding (Green)	(PIM) Did Not Effectively Incorporate Operating Experience into the Preventive Maintenance Strategy for the 22 Kilovolt Electrical System	2004005
VY	1	6/28/2003	NCV (Green)	(PIM) Failure to Take Effective Corrective Actions Regarding Safety-Related Electrical Cable Separation	2003005
VY	1	12/30/2000	NCV (N/A)	(PIM) Failure to use self-contained breathing apparatus during fire brigade drills	2000010
VY	1	7/1/2000	NCV (Green)	(PIM) Violation of FSAR Cable Separation Criteria	2000005
WAT	4	3/31/2010	NCV (Green)	(PIM) Failure to Control Transient Combustibles (Section 1R05)	2010002

Site	Region	Event Date	Item Type	Title	Inspection Report Number
WAT	4	12/31/2007	NCV (Green)	(PIM) Failure to Follow Procedure Review Process	2007005
WAT	4	10/7/2007	NCV (Green)	(PIM) Inadequate Procedure for a Fire in Vital Switchgear Room B	2007004
WAT	4	12/31/2004	NCV (Green)	(PIM) Failure to Maintain Control Room Electrical Isolation During Transfer to the Alternate Shutdown Panel	2004005
WAT	4	9/30/2002	NCV (Green)	(PIM) Failure to Implement Effective Corrective Actions	2002003
WAT	4	7/1/2000	NCV (Green)	(PIM) Failure to ensure fire extinguishers remained within their current hydrostatic test dates	2000005
WB	2	6/30/2011	NonCited Violation (Green)	(PIM) Failure to Ensure The Operability of an Emergency Battery Lighting Unit in Accordance with the Approved Fire Protection Plan	2011003
WB	2	6/30/2011	NonCited Violation (Green)	(PIM) Failure to Perform a Transient Combustible Evaluation for Storage of Oil in a Safety Related Area in Accordance with the Approved Fire Protection Plan	2011003
WB	2	6/30/2011	NonCited Violation (Green)	(PIM) Procedure AOI-30.2 C.36, Fire Safe Shutdown Room 737-A1A, Non-feasible Operator Manual Action	2011003
WB	2	3/31/2011	NonCited Violation (Green)	(PIM) Failure to establish adequate compensatory measures for a degraded sprinkler system in accordance with the approved fire protection plan	2011002
WB	2	10/31/2006	NCV (Green)	(PIM) Fire Header Inoperable Due to Failure to Follow Procedure	2006004

Site	Region	Event Date	Item Type	Title	Inspection Report Number
WB	2	9/25/2004	NCV (Green)	(PIM) Failure to Identify Unsatisfactory Performance of a Fire Brigade Crew	2004004
WB	2	12/27/2003	NCV (Green)	(PIM) Inadequate Operability Evaluation Results in Exceeding the OR Time Limit for Returning Electric Driven Fire Pumps to Operable Status	2003005
WB	2	12/27/2003	NCV (Green)	(PIM) Seal Not Installed in a Cable Conduit Penetrating a Fire Barrier	2003005
WB	2	6/15/2002	NCV (Green)	(PIM) FAILURE TO POST A ROVING FIRE WATCH AT INTAKE PUMP STRUCTURE	2002002
WB	2	6/15/2002	NCV (Green)	(PIM) FAILURE TO CONTROL TRANSIENT COMBUSTIBLES	2002002
WC	4	3/3/2010	NCV (Green)	(PIM) Degraded Fire Barriers for Auxiliary Feedwater	2010002
WC	4	8/12/2009	NCV (Green)	(PIM) Failure to Log Foreign Material in Spent Fuel Pool After Extent of Condition Evaluation	2009004
WC	4	3/31/2009	NCV (Green)	(PIM) Degraded fire barrier for auxiliary feedwater	2009002
WC	4	3/31/2009	NCV (Green)	(PIM) Failure to implement foreign material exclusion control procedure for spent fuel pool	2009002
WC	4	6/28/2008	NCV (Green)	(PIM) Failure to implement transient combustible control permit requirements for a propane tank	2008003
WC	4	4/7/2008	NCV (Green)	(PIM) Failure to analyze motor operated valve circuits	2008002

Site	Region	Event Date	Item Type	Title	Inspection Report Number
WC	4	4/7/2008	NCV (Green)	(PIM) Failure to reestablish timely seal cooling for the reactor coolant pumps	2008002
WC	4	4/7/2008	NCV (Green)	(PIM) Failure to implement fire protection impairment control permit requirements and compensatory measures	2008002
WC	4	10/6/2007	NCV (Green)	(PIM) Failure to implement transient combustible material control permit requirements	2007004
WC	4	4/7/2007	NCV (Green)	(PIM) Failure to implement fire protection impairment control permit requirements and compensatory measures	2007002
WC	4	4/7/2006	NCV (Green)	(PIM) Failure to provide adequate fire detection in the diesel generator rooms	2006002
WC	4	4/7/2004	NCV (Green)	(PIM) Inadequate Fire Barriers at Seismic Gaps	2004002
WC	4	3/23/2002	NCV (N/A)	(PIM) Fire Protection	2001006
WC	4	3/31/2001	NCV (Green)	(PIM) Three hour rated fire door partially open between vital switchgear rooms	2000011
WNP	4	12/31/2007	NCV (SL-IV)	(PIM) Willful Failure to Complete Fire Watch Rounds and Falsification of Logs (EA 07-282)	2007005
WNP	4	12/31/2007	NCV (SL-IV)	(PIM) Willful Failure to Complete Fire Watch Rounds and Falsification of Logs (EA 07-282)	2007005
WNP	4	7/5/2003	Finding (Green)	(PIM) Failure to take effective corrective actions resulted in main turbine trip.	2003005

Site	Region	Event Date	Item Type	Title	Inspection Report Number
WNP	4	12/28/2002	NCV (Green)	(PIM) Man-lift inappropriately stored in control room	2002004
WNP	4	9/21/2002	NCV (Green)	(PIM) Failure to Properly Design a Fire Protection Flood Barrier	2002003
WNP	4	3/31/2001	NCV (SL-IV)	(PIM) Failure to obtain NRC approval prior to changing fire protection program (Closes URI 0012-02)	2001002

B.3 Fire Protection Data Issues

Table B-7: Issues with the Fire Protection Findings Data

Site	Event Date	Item Type	Title	Why?	Was in	Should be in
ANO	5/17/1999	Apparent Violation (TBD)	(Non-PIM) APP VIO 10CFRPART 50, APPENDIX R, NOT HAVING ADEQUATE ALTERNATIVE SHUTDOWN CAPABILITY. A POSTULATED FIRE IN THE UNIT 1 CR CABLE SPREADING ROOM COULD CAUSE HPI SYSTEM VALVES TO SPURIOUSLY CLOSE	Open in 1998021 and discussed in 2007006. It was before we started FP Triennial Inspections. This finding is not considered in our report.	Triennial findings search	Annual or Quarterly findings
BF	9/30/2006	URI	(Non-PIM) Incomplete and Unfeasible Compensatory Measures For Ensuring RHR Pump NPSH During Appendix R Events	This is a URI found during a quarterly finding and appeared in an integrated report. This URI should be in the quarterly findings.	Triennial findings search	Annual or Quarterly findings
BF	9/22/2001	NCV (Green)	(PIM) Inadequate Fire Damper Maintenance Procedure Results in Inoperable Emergency Diesel Generators	2001003. This finding appeared in the triennial search but it was a licensee identified violation during a quarterly inspection report. It should be part of the quarterly findings.	Triennial findings search	Annual or Quarterly findings
BF	9/22/2001	NCV (Green)	(PIM) Error in Analysis of RHR System Results in Failure to Meet Appendix R, Criterion III.L.2.B	Open in TR 2000008 as URI and closed in IR 2001003 as NCV. This finding appeared in the quarterly/annual findings.	Annual or Quarterly findings	Triennial findings search
BF	6/30/2000	URI	(Non-PIM) Determine Risk Significance of Dead-Heading RHR Pump	Open in TR 2000008 as URI and closed in IR 2001003 as NCV. This finding appeared in the quarterly/annual findings.	Annual or Quarterly findings	Triennial findings search

Table B-7: Issues with the Fire Protection Findings Data

Site	Event Date	Item Type	Title	Why?	Was in	Should be in
BRAI	11/30/2000	URI	Equipment Important for Safe Shutdown Not Identified (Section 1R05.1b)	Open in TR 2000006 (Still Open) This finding was not in the Dynamic website search, it was obtained when the Triennial report was opened. Need to check if this URI is closed.	N/A	Triennial findings search
BRAI	11/30/2000	URI	License Requirements Reduced for Two Auxiliary Building Fire Zones (Section 1R05.2b)	Open in TR 2000006 and discussed in IR 2001011 (Still Open) [This finding was not in the Dynamic website search, it was obtained when the Triennial report was opened] Need to check if this URI is closed.	N/A	Triennial findings search
CALV	5/28/2004	Finding (Green)	(PIM) Inadequate Breaker Coordination	TR 2004003	Double Count	Triennial findings search
CALV	5/28/2004	NCV (Green)	(PIM) Inadequate Combustible Material Control in Unit 1 69' West Electrical Room	TR 2004003	Double Count	Triennial findings search
CALV	5/28/2004	NCV (Green)	(PIM) Failure to provide protection in accordance with 10 CFR Part 50, Appendix R, Section III.G.2	TR 2004003	Double Count	Triennial findings search
CNS	4/6/2001	NCV (Green)	Failure to provide 20 feet separation between redundant service water equipment.	2001003 The Triennial Dynamic website search did not have this finding; it was obtained by opening the triennial report but it appeared in A/Q search.	Annual or Quarterly findings	Triennial findings search

Table B-7: Issues with the Fire Protection Findings Data

Site	Event Date	Item Type	Title	Why?	Was in	Should be in
CNS	4/6/2001	NCV (Green)	Failure to provide adequate emergency lighting to perform operator actions for safe shutdown.	2001003 The Triennial Dynamic website search did not have this finding; it was obtained by opening the triennial report but it appeared in A/Q search.	Annual or Quarterly findings	Triennial findings search
CNS	4/6/2001	NCV (Green)	Failure to install detectors as documented in the safety evaluation report which was not in accordance with 10 CFR 50.48(b).	2001003 The Triennial Dynamic website search did not have this finding; it was obtained by opening the triennial report but it appeared in A/Q search.	Annual or Quarterly findings	Triennial findings search
CNS	4/6/2001	NCV (Green)	Failure to perform calculations to ensure that the locations and conditions of fire areas did not require as much water as is discharged by nominal 1/2-inch orifice sprinkler, as required by NFPA 13 Code requirements	2001003 The Triennial Dynamic website search did not have this finding; it was obtained by opening the triennial report but it appeared in A/Q search.	Annual or Quarterly findings	Triennial findings search
COOK	12/29/2001	NCV (N/A)	(PIM) Failure to Ensure That Breaker Coordination and Selective Tripping was Provided at the 4.16 kV System	This is not a Triennial Inspection; it was a combined inspection were they looked the FP Safe Shutdown Analysis. Inspection report 2001019	Triennial findings search	Annual or Quarterly findings
CP	9/21/2008	NCV (Green)	(PIM) "Failure to Ensure Roll-up Fire Doors Complied With Fire Code"	IR 2008004. This finding appeared in the Triennial Dynamic Website search but it is not a triennial inspection finding.	Triennial findings search	Annual or Quarterly findings

Table B-7: Issues with the Fire Protection Findings Data

Site	Event Date	Item Type	Title	Why?	Was in	Should be in
CP	6/22/2008	NCV (Green)	(PIM) Inadequate Fire Protection Compensatory Actions During Refueling Outage.	IR 2008003. This finding appeared in the Triennial Dynamic Website search but it is not a triennial inspection finding.	Triennial findings search	Annual or Quarterly findings
CP	6/22/2008	NCV (Green)	(PIM) Failure to Expediently Restore Fire Hose Stations in Containment to Service	IR 2008003. This finding appeared in the Triennial Dynamic Website search but it is not a triennial inspection finding.	Triennial findings search	Annual or Quarterly findings
DIAB	3/18/2003	NCV (Green)	(PIM) Two examples of a violation of Technical Specification 5.4.1.d for inadequate fire protection implementation procedure	Open in TR 2003002. Was an URI pending Risk evaluation. Couldn't find the report where it was declared as NCV.	N/A	N/A
DRES	12/18/2007	NCV (Green)	Failure to Perform a 10 CFR 50.59 Evaluation for Exceeding Continuous Rating on the EDG.	Open in TR 2002006, discussed in 2005009 and closed in IR 2008007. This URI became two NCV in IR 2008007. This finding did not appear in the Dynamic website search.	Triennial findings search	Triennial findings search
DRES	12/19/2007	NCV (Green)	Failure to Meet the EDG Power Factor Testing Requirements	Open in TR 2002006, discussed in 2005009 and closed in IR 2008007. This URI became two NCV in IR 2008007. This finding did not appear in the Dynamic website search.	Triennial findings search	Triennial findings search
DRES	12/18/2007	NCV (Green)	Failure to Perform a 10 CFR 50.59 Evaluation for Exceeding Continuous Rating on the EDG.	Open in TR 2002006, discussed in 2005009 and closed in IR 2008007. This URI became two NCV in IR 2008007. This finding did not appear in the Dynamic website search.	Triennial findings search	Triennial findings search

Table B-7: Issues with the Fire Protection Findings Data

Site	Event Date	Item Type	Title	Why?	Was in	Should be in
DRES	12/19/2007	NCV (Green)	Failure to Meet the EDG Power Factor Testing Requirements	Open in TR 2002006, discussed in 2005009 and closed in IR 2008007. This URI became two NCV in IR 2008007. This finding did not appear in the Dynamic website search.	Triennial findings search	Triennial findings search
FAR	12/31/2007	NCV (Green)	Fire Procedure Failed to Ensure that AC Power Would Be Available	Open in TR 2005007 and closed in IR 2006005. This finding did not appear in any search from the Dynamic Website. It was taken from the report.	N/A	Triennial findings search
FCS	3/10/2000	NCV (Green)	(PIM) Failure to Ensure One Train of Systems Required for Safe Shutdown is Free of Fire Damage	Open in TR 2000001 as an Apparent Violation and it was closed as NCV in the TR 2005008.	Double Count	Triennial findings search
FCS	3/10/2000	NCV (Green)	(PIM) Two examples of a NCV of License Condition E to the FCS operating license for failure to maintain in effect all provisions of the NRC-approved fire protection program in Fire Area 32.	TR 2000001. This finding appeared in the A/Q Dynamic Website search but it is a triennial inspection finding.	Annual or Quarterly findings	Triennial findings search
GG	9/17/2002	NCV (Green)	(PIM) Failure to protect radio repeaters	TR 2002007. This finding appeared in the A/Q Dynamic Website search but it is a triennial inspection finding.	Annual or Quarterly findings	Triennial findings search
INPT	5/19/2004	URI	(Non-PIM) RCP SEAL COOLING FOR ALTERNATE SAFE SHUTDOWN PROCEDURE STRATEGIES	Opened in TR 2004005 and discussed in IR 2005003. This finding appeared in the A/Q Dynamic Website search but it is a triennial inspection finding.	Annual or Quarterly findings	Triennial findings search

Table B-7: Issues with the Fire Protection Findings Data

Site	Event Date	Item Type	Title	Why?	Was in	Should be in
KEWA	7/31/2004	NCV (Green)	Failure to Maintain Acceptable (Quality Related) Pre-Fire Strategies	TR 2004005 This finding appeared in the A/Q Dynamic Website search but it is a triennial inspection finding.	Annual or Quarterly findings	Triennial findings search
KEWA	10/2/2002	NCV (Green)	Inappropriate Placement of Diesel Generator Room Heat Detectors	Open in TR 2001002 as URI and closed in this follow-up fire protection inspection 2002006. This NCV should be a triennial finding because they are closing an URI but it did not appear in any Dynamic Website search.	N/A	Triennial findings search
MCG	11/3/2000	URI	(Non-PIM) Potential for Pressurize PORV Actuations	Open in TR 2000009 and closed in TR 2009007. This finding appeared in the A/Q Dynamic Website search but it is a triennial inspection finding. This URI was supposed to be a NCV but enforcement discretion was granted as result of their transition to NFPA 805.	Annual or Quarterly findings	Triennial findings search
MCG	11/3/2000	URI	(Non-PIM) Availability of the Charging Pumps for Fire Damage to the Volume Control Tank Outlet Valves	Open in TR 2000009 and discussed in TR 2009007. This finding appeared in the A/Q Dynamic Website search but it is a triennial inspection finding.	Annual or Quarterly findings	Triennial findings search
MCG	11/3/2000	URI	(Non-PIM) Adequacy of the Fire Rating of Mineral Insulated Cables in Lieu of Thermo-Lag Electrical Raceway Fire Barrier Systems	Open in TR 2000009 and closed in TR 2003007. This finding appeared in the A/Q Dynamic Website search but it is a triennial inspection finding. No findings or NCV for this URI.	Annual or Quarterly findings	Triennial findings search

Table B-7: Issues with the Fire Protection Findings Data

Site	Event Date	Item Type	Title	Why?	Was in	Should be in
MCG	11/3/2000	URI	(Non-PIM) Potential for Loss of Auxiliary Feed water Flow for a Fire in Fire Areas 2 and 14	Open in TR 2000009 as URI and closed in an IR 2004003 as NCV. This finding appeared in the A/Q Dynamic Website search but it is a triennial inspection finding.	Annual or Quarterly findings	Triennial findings search
NA	11/12/2009	URI (Green)	(Non-PIM) Potential for CO2 Over-pressurization of Unit 2 Cable Vault & Tunnel	Delete this UR from the triennial list. In the TR 2009008, this URI was closed not open.	N/A	N/A
NA	12/31/2004	NCV (Green)	(PIM) Fire Response Procedures Not Adequate to Maintain Reactor Coolant Level Within the Level Indication of the Pressurizer (Section 4OA5)	Open in TR 2003006 as URI and closed in IR 2004006 as NCV. This finding appeared in the A/Q Dynamic Website search but it is a triennial inspection finding.	Annual or Quarterly findings	Triennial findings search
NA	7/1/2000	NCV (Green)	(PIM) INADEQUATE PROCEDURE FOR ALTERNATIVE SHUTDOWN FOR A CONTROL ROOM FIRE	NCV from IR 2000003 due to continue investigation of the 2 NCV from TR 2000007.	Annual or Quarterly findings	Triennial findings search
NA	4/31/2000	NCV (Green)	Failure to analyze for the affect on the post-fire safe shutdown capability of fire-induced failures of the main feed water system.	Open in TR 2000007 as URI and closed in IR 2000006 as a NCV. This finding did not show up in any search in the Dynamic Website.	N/A	Triennial findings search
NA	4/31/2001	NCV (Green)	Inadequate procedural guidance for implementing alternate shutdown for a fire in the emergency switchgear room.	Open in TR 2000007 as URI and closed in IR 2000006 as a NCV. This finding did not show up in any search in the Dynamic Website.	N/A	Triennial findings search
PALI	7/27/2001	NCV (Green)	(PIM) Smoke Detectors Inadequate - Southern Portions of Cable	TR 2001008. This finding appeared in the A/Q Dynamic Website search but it is a triennial inspection finding.	Annual or Quarterly findings	Triennial findings search

Table B-7: Issues with the Fire Protection Findings Data

Site	Event Date	Item Type	Title	Why?	Was in	Should be in
PALI	7/27/2001	NCV (Green)	(PIM) Smoke Detectors Inadequate - 1-D Switchgear Room	TR 2001008. This finding appeared in the A/Q Dynamic Website search but it is a triennial inspection finding.	Annual or Quarterly findings	Triennial findings search
PALI	7/27/2001	Violation (White)	(PIM) Smoke Detectors Inadequate - Northwest Portion of Cable Spreading Room	Open in TR 2001008 as Apparent Violation, discussed in 2002008 and closed in IR 2003002 as White Violation. his finding appeared in the A/Q Dynamic Website search but it is a triennial inspection finding.	Annual or Quarterly findings	Triennial findings search
SANO	10/8/2004	URI	Adequacy of Fire Safe Shutdown Procedure	Open in TR 2004008, and closed in TR 2007008. No any finding or NCV for this URI. This finding appeared in the A/Q Dynamic Website search but it is a triennial inspection finding.	Annual or Quarterly findings	Triennial findings search
SEQ	11/18/2005	URI (TBD)	(Non-PIM) Reliance on 20-foot Separation Zones for Fire Protection in Unit 1 480V Board Room 1B Reliance on 20-foot Separation Zones for Fire Protection in Unit 1 480V Board Room 1B	Open in TR 2005011 and closed in IR 2006005. The Dynamic website mentioned the 2006005 report but that report did not mentioned the URI neither closed it.	N/A	N/A
SEQ	11/18/2005	URI (TBD)	(Non-PIM) Unprotected Power Cables to Vital Inverters in Unit 1 480V Board Room 1B	Open in TR 2005011 and closed in IR 2006005. The Dynamic website mentioned the 2006005 report but that report did not mentioned the URI neither closed it.	N/A	N/A

Table B-7: Issues with the Fire Protection Findings Data

Site	Event Date	Item Type	Title	Why?	Was in	Should be in
SEQ	11/18/2005	URI (TBD)	(Non-PIM) Appendix R Operator Action to Throttle AFW in Main Steam Valve Vault Room	Open in TR 2005011 and closed in IR 2006005. The Dynamic website mentioned the 2006005 report but that report did not mentioned the URI neither closed it.	N/A	N/A
SEQ	11/18/2005	URI (TBD)	(Non-PIM) Reliance on Local Manual Operator Actions for Appendix R Fires	Open in TR 2005011 and closed in IR 2006005. The Dynamic website mentioned the 2006005 report but that report did not mentioned the URI neither closed it.	N/A	N/A
STL	6/30/2001	NCV (Green)	(PIM) Inoperable Cable Spreading Room Smoke Detector	IR 2001003 This finding appeared in the triennial Dynamic Website search but it is an A/Q finding.	Triennial findings search	Annual or Quarterly findings
STL	6/30/2001	NCV (Green)	(PIM) Fire Detection Electrical Monitoring System Not in Accordance with Requirements	IR 2001003 This finding appeared in the triennial Dynamic Website search but it is an A/Q finding.	Triennial findings search	Annual or Quarterly findings
STL	6/30/2001	NCV (Green)	(PIM) Inadequate Testing of Sprinkler System	IR 2001003 This finding appeared in the triennial Dynamic Website search but it is an A/Q finding.	Triennial findings search	Annual or Quarterly findings
STL	10/31/2003	NCV (Green)	(Non-PIM) Failure to Evaluate the Combustible Loading of Oil-Filled Transformers in the FHA and the Effect on SSD Capability in the Event of a Fire in Unit 2	Open in TR 2003002 as URI and closed in IR 2003013 as NCV. This finding appeared in the A/Q Dynamic Website search but it is a triennial inspection finding.	Annual or Quarterly findings	Triennial findings search

Table B-7: Issues with the Fire Protection Findings Data

Site	Event Date	Item Type	Title	Why?	Was in	Should be in
STP	7/14/2005	URI	(Non-PIM) Hot Sticking Motor-operated Valves	Open in TR 2005006 as URI and closed in IR 2006002 as NCV. This finding appeared in the A/Q Dynamic Website search but it is a triennial inspection finding.	Annual or Quarterly findings	Triennial findings search
STP	7/14/2005	URI	(Non-PIM) Thermal Hydraulic Analysis Inconsistencies	Open in TR 2005006 as URI and closed in IR 2006002 as NCV. This finding appeared in the A/Q Dynamic Website search but it is a triennial inspection finding.	Annual or Quarterly findings	Triennial findings search
STP	7/14/2005	NCV (Green)	(Non-PIM) Hot Sticking Motor-operated Valves	Open in TR 2005006 as URI and closed in IR 2006002 as NCV. This NCV appeared under the annual/quarterly findings list.	Annual or Quarterly findings	Triennial findings search
STP	7/14/2005	NCV (Green)	(Non-PIM) Thermal Hydraulic Analysis Inconsistencies	Open in TR 2005006 as URI and closed in IR 2006002 as NCV. This finding appeared in the A/Q Dynamic Website search but it is a triennial inspection finding.	Annual or Quarterly findings	Triennial findings search
SUM	2/3/2004	URI	(Non-PIM) Fire Emergency Procedure FEP-4.0, Potentially Not Adequate to Ensure Reactor Coolant Pump Seal Integrity	Open in IR 2004010 and closed in IR 2004007. This finding appeared in the triennial Dynamic Website search but it is an A/Q finding.	Triennial findings search	Annual or Quarterly findings
WAT	9/29/2000	NCV (Green)	Failure to Isolate Neutral Wire during Transfer to the Alternative Shutdown Panel per 10 CFR Part 50 Appendix R, Section III.L.3	Open in TR 2000007 as an URI and closed in IR 2004005 as NCV. This finding appeared in the A/Q Dynamic Website search but it is a triennial inspection finding.	Annual or Quarterly findings	Triennial findings search

Table B-7: Issues with the Fire Protection Findings Data

Site	Event Date	Item Type	Title	Why?	Was in	Should be in
WAT	9/29/2000	URI	(Non-PIM) Determination as to the qualification of Heymc fire wrap as a rated 1-hour fire barrier.	Open in TR 2000007 as an URI and closed in IR 2007004 as an Apparent Violation. This finding appeared in the A/Q Dynamic Website search but it is a triennial inspection finding.	Annual or Quarterly findings	Triennial findings search
WC	12/29/2005	Apparent Violation (TBD)	(PIM) Failure to Ensure Redundant Safe Shutdown Systems Located in the Same Fire Area Are Free of Fire Damage	TR 2005008 The ROP website had it as an apparent violation but the report stated that is a green NCV. It was count as NCV.	N/A	Triennial findings search

Table B-8: Most Recent Fire Protection Findings (100)

Site	Region	Event Date	Item Type	Title	Inspection Report Number
MONT	3	7/15/2011	NCV (Green)	(PIM) HYDROGEN BOTTLES LOCATED BELOW RHR SYSTEM CABLES.	2011008
MONT	3	7/15/2011	NCV (Green)	(Non-PIM) B.5.b Strategy Did Not Ensure Minimum Flow Rate for Injection into RPV with Portable Pump.	2011008
MONT	3	7/15/2011	NCV (Green)	(PIM) FAILURE TO INSPECT AND TEST THE MCR AIR INTAKE SMOKE DETECTOR.	2011008
STP	4	7/1/2011	NCV (Green)	(PIM) Failure to Timely Correct Conditions Adverse to Fire Protection	2011006
BRAI	3	6/30/2011	NCV (Green)	(PIM) STRUCTURAL STEEL BEAM MISSING FIRE PROOFING MATERIALS	2010005

Site	Region	Event Date	Item Type	Title	Inspection Report Number
CAT	2	6/30/2011	NCV (Green)	(PIM) Failure to adequately control energized temporary power sources with transient fire loads	2011003
FCS	4	6/30/2011	NCV (Green)	(PIM) Failure to Adequately Design a Reactant Coolant Pump Lube Oil Collection System	2011003
NA	2	6/30/2011	NCV (Green)	(PIM) Failure to Control Transient Fire Loads in a Safety-Related Area	2011003
NA	2	6/30/2011	NCV (Green)	(PIM) Failure to Maintain Fire Doors in Accordance with the Fire Protection Program	2011003
PILG	1	6/30/2011	NCV (Green)	(PIM) Transient Combustible Loading in SLC Room in Excess of the Fire Hazards Analysis Limit	2011003
SALM	1	6/30/2011	NCV (Green)	(PIM) IMPROPER CONTROL OF TRANSIENT COMBUSTIBLE MATERIAL	2011003
SEAB	1	6/30/2011	NCV (Green)	(PIM) Inadequate Control of Combustible Materials	2011003
STP	4	6/30/2011	NCV (Green)	(PIM) Inadequate Fire Protection System Functionality Procedure Results in Failure to Establish Fire Watches	2011003
WB	2	6/30/2011	NCV (Green)	(PIM) Failure to Ensure The Operability of an Emergency Battery Lighting Unit in Accordance with the Approved Fire Protection Plan	2011003
WB	2	6/30/2011	NCV (Green)	(PIM) Failure to Perform a Transient Combustible Evaluation for Storage of Oil in a Safety Related Area in Accordance with the Approved Fire Protection Plan	2011003
WB	2	6/30/2011	NCV (Green)	(PIM) Procedure AOI-30.2 C.36, Fire Safe Shutdown Room 737-A1A, Non-feasible Operator Manual Action	2011003

Site	Region	Event Date	Item Type	Title	Inspection Report Number
GG	4	6/27/2011	NCV (Green)	(PIM) Failure to Identify Conditions Adverse to Fire Protection	2011003
DIAB	4	6/26/2011	NCV (Green)	(PIM) Inadequate Fire Hazard Evaluations	2011003
SEQ	2	6/13/2011	NCV (Green)	(PIM) Failure to Establish Compensatory Actions for Blocked Sprinklers	2011006
SEQ	2	6/13/2011	NCV (Green)	(PIM) Sprinkler System in Room 690.0-A1 of the Auxiliary Building has NFPA Code Deviation	2011006
INP3	1	5/27/2011	NCV (Green)	(PIM) Inappropriate Interim Compensatory Measure for Service Water Strainer Backwash Function	2011008
CP	4	5/3/2011	NCV (Green)	(PIM) Failure to Ensure Emergency Lights in Safe Shutdown Areas had an 8-Hour Capacity	2011007
CP	4	5/3/2011	NCV (Green)	(PIM) Failure to Identify and Mitigate or Correct Potential Single Spurious Fire Damage Scenario	2011007
CP	4	5/3/2011	NCV (Green)	(PIM) Failure to Implement Effective Corrective Actions for a Condition Adverse to Fire Protection	2011007
FERM	3	4/29/2011	Finding (Green)	(Non-PIM) Failure to Store B.5.b Equipment Appropriately	2011012
FERM	3	4/29/2011	NCV (Green)	(PIM) Unauthorized Transient Combustibles	2011009
FERM	3	4/29/2011	NCV (Green)	(PIM) Inadequate Detection in Emergency Diesel Generator Rooms	2011009
FERM	3	4/29/2011	NCV (Green)	(PIM) Inadequate Procedures to Control the Plant from the Dedicated Shutdown Panel	2011009
OC	1	4/1/2011	NCV (Green)	(PIM) Control Cables for the Reactor Coolant Inventory Makeup Source Not Protected From Fire Damage	2011007

Site	Region	Event Date	Item Type	Title	Inspection Report Number
OC	1	4/1/2011	NCV (Green)	(PIM) B.5.b. Phase 2 and 3 Mitigating Strategy	2011009
CLIN	3	3/31/2011	NCV (Green)	(PIM) FAILURE TO CONTROL TRANSIENT COMBUSTIBLE MATERIALS IN ACCORDANCE WITH FIRE PROTECTION PROGRAM.	2011002
HAT	2	3/31/2011	NCV (Green)	(PIM) Inaccessbile fire hose station in the cable spreading room	2011002
WB	2	3/31/2011	NCV (Green)	(PIM) Failure to establish adequate compensatory measures for a degraded sprinkler system in accordance with the approved fire protection plan	2011002
GG	4	3/27/2011	NCV (Green)	(PIM) Transient Combustible Stored in the Fire Exclusion Zone Near the Independent Spent Fuel Storage Installation	2011002
CP	4	3/19/2011	NCV (Green)	(PIM) Inadequate Fire Drill Evaluation	2011002
CLIN	3	3/18/2011	NCV (Green)	(PIM) FAILURE TO ENSURE FIRE DOOR WAS CLOSED AND LATCHED	2011009
CNS	4	3/14/2011	Apparent Violation (White)	(PIM) Inadequate Post-Fire Safe Shutdown Procedures	2010006
CNS	4	3/14/2011	NCV (Green)	(PIM) Failure to Monitor the Performance of the Emergency Lights Against the Maintenance Rule Criteria	2010006
SUR	2	2/28/2011	Violation (SL-IV)	(PIM) Inaccurate Fire Watch Records	2011012
HAT	2	2/24/2011	NCV (Green)	(PIM) Untimely Corrective Action for Installing Appendix R Emergency Lights	2010009

Site	Region	Event Date	Item Type	Title	Inspection Report Number
HAT	2	2/24/2011	Unresolved item (TBD)	(Non-PIM) Protection of Systems Structures and Components from Damage as a Result of Fire Suppression Activities	2010009
BRAI	3	12/31/2010	NCV (Green)	(PIM) DEGRADED FIRE SEAL BETWEEN TWO FIRE ZONES	2011003
CLIN	3	12/31/2010	NCV (Green)	(PIM) FAILURE TO CONTROL TRANSIENT COMBUSTIBLE MATERIALS IN ACCORDANCE WITH FIRE PROTECTION PROGRAM.	2010005
CNS	4	12/31/2010	Finding (Green)	(PIM) Failure to Implement Fire Protection Plan Requirements Related to Hot Work Activities	2010005
DIAB	4	12/31/2010	NCV (Green)	(PIM) Failure to Maintain a Fire Barrier	2010005
DIAB	4	12/31/2010	NCV (Green)	(PIM) Inadequate Transient Combustibles Procedure	2010005
FAR	2	12/31/2010	NCV (Green)	(PIM) Failure to Follow Station Guidance on Use of Extension Cords and Placement of Equipment in Safety-Related Cable Trays (Section 1R05)	2010005
MONT	3	12/31/2010	Finding (Green)	(PIM) FAILURE TO PROPERLY STORE LOOSE MATERIAL IN CLOSE PROXIMITY TO SAFETY RELATED EQUIPMENT.	2010005
NA	2	12/31/2010	Unresolved item (N/A)	(Non-PIM) Appendix R Fire Protection for RCS Instrumentation in Containment	2010005
NA	2	12/31/2010	NCV (Green)	Failure to Maintain PM Procedures for Circuit Breakers Current with Industry Information and OE	2010005
SEQ	2	12/31/2010	NCV (Green)	(PIM) Failure to collect reactor coolant pump oil leakage	2010005

Site	Region	Event Date	Item Type	Title	Inspection Report Number
STP	4	12/31/2010	NCV (Green)	(PIM) Failure to Install the Required Number of Smoke Detectors (4) in the Auxiliary Shutdown Rooms	2010005
TP	2	12/31/2010	NCV (Green)	(PIM) Scaffold blocked access to fire areas used in a control room evacuation event	2010005
BYRO	3	12/3/2010	NCV (Green)	(PIM) Failure to Provide Adequate Guidance in Safe-Shutdown Procedures	2010006
BYRO	3	12/3/2010	NCV (Green)	(PIM) Failure to Periodically Test 125 Vdc Molded Case Circuit Breakers	2010006
CNS	4	10/8/2010	NCV (Green)	Failure to Follow Procedure Results in Repeat Equipment Failure	2010004
VY	1	10/1/2010	NCV (Green)	(PIM) Fire Scenario Resulting in Loss of Reactor Core Isolation Cooling System	2010008
CAT	2	9/30/2010	NCV (Green)	(PIM) Failure to adequately control transient combustible material in accordance with the fire protection program	2010004
CR	2	9/30/2010	NCV (Green)	(PIM) Inoperable Fire Barrier Penetration Seals	2010004
FCS	4	9/30/2010	NCV (Green)	Inadequate Maintenance Procedure Results in Water in East Switchgear Room and Room 19	2010004
FITZ	1	9/30/2010	NCV (Green)	(PIM) Appendix R Fire Door Blocked Open Without Establishing Required Measures	2010004
LIM	1	9/30/2010	NCV (Green)	(PIM) Failure to Take Compensatory Action for Inoperable Fire Door	2010004
POIN	3	9/30/2010	NCV (Green)	(PIM) Failure to Identify Hydrogen Fire Hazards on Pre-Fire Plan	2010004

Site	Region	Event Date	Item Type	Title	Inspection Report Number
TMI	1	9/30/2010	NCV (Green)	(PIM) Deficient Control of Transient Material in Seismic Class I Buildings	2010004
GG	4	9/27/2010	NCV (Green)	(PIM) Degraded Fire Door Barrier Protecting the Safeguards Switchgear Rooms	2010004
DIAB	4	9/25/2010	NCV (Green)	(PIM) Failure to Identify a Degraded Fire Barrier	2010004
MILL	1	9/22/2010	NCV (Green)	(PIM) NCV 05000336/2010008-01; 05000423/2010008-01, Failure to Properly Control Fire Fighting Strategies.	2010008
ANO	4	8/27/2010	Finding (Green)	(PIM) Fire Protection Compensatory Measures Did Not Cover All Fire Protection Features	2010006
INP3	1	7/1/2010	NCV (Green)	Procedural Requirements for N-38 Component Classification for Preventative Maintenance Not Implemented	2010003
FITZ	1	6/30/2010	NCV (Green)	(PIM) Fire Barrier Penetrations Not Maintained as Qualified Three Hour Fire Barriers	2010003
HAR	2	6/30/2010	NCV (Green)	Reactor Trip due to Failing to Properly Assemble an Oil Filter in the Hydrogen Seal Oil System	2010003
SUM	2	6/30/2010	NCV (Green)	Inadequate Station Tagout Procedure for Controlling Safety and Non-safety Related Grounding Equipment Results in Loss of All Balance of Plant Power and Switchgear Fires	2010003
CAT	2	6/28/2010	NCV (Green)	(PIM) Emergency Lighting Units Not Installed as Required by the Fire Protection Program	2010006
CALL	4	6/23/2010	NCV (Green)	Failure to Ensure Completion of Corrective Actions for Degraded Chemical and Volume Control System Valves	2010003

Site	Region	Event Date	Item Type	Title	Inspection Report Number
RBS	4	6/2/2010	NCV (Green)	(PIM) Failure to Ensure Alternative Shutdown Procedure Could be Implemented as Written	2010006
RBS	4	6/2/2010	NCV (Green)	(PIM) Failure to Implement and Maintain in Effect all Provisions of the Approved Fire Protection Program	2010006
RBS	4	6/2/2010	NCV (Green)	(PIM) Failure to Implement and Maintain in Effect all Provisions of the Approved Fire Protection Program	2010006
RBS	4	6/2/2010	NCV (Green)	(PIM) Failure to Ensure at Least One Train of Equipment Necessary to Achieve Hot Shutdown Conditions is Free of Fire Damage	2010006
OCO	2	4/30/2010	NCV (Green)	(PIM) Failure to Identify and Correct Fire Brigade Performance Weaknesses	2001002
INPT	1	4/7/2010	NCV (Green)	(PIM) Fire Scenario resulting in loss of charging pump suction	2010006
INPT	1	4/7/2010	NCV (Green)	(PIM) Fire Scenario resulting in loss of cooling water to charging pumps	2010006
BRAI	3	3/31/2010	NCV (Green)	(PIM) PERFORMANCE OF TROUBLESHOOTING LEADS TO AUXILIARY BUILDING VENTILATION FAN FIRE	2010002
BRAI	3	3/31/2010	NCV (Green)	DIESEL OIL STORAGE TANK ROOM SPRINKLER OBSTRUCTIONS	2010002
BYRO	3	3/31/2010	NCV (Green)	(PIM) FIRE BARRIER WITH UNSEALED PENETRATION BETWEEN UNIT 1 AF PUMP ROOMS	2010002
CLIN	3	3/31/2010	NCV (Green)	(PIM) FAILURE TO CONTROL COMBUSTIBLE GAS CYLINDERS IN ACCORDANCE WITH FIRE PROTECTION PROGRAM	2010002

Site	Region	Event Date	Item Type	Title	Inspection Report Number
CLIN	3	3/31/2010	NCV (Green)	(PIM) FAILURE TO CONTROL TRANSIENT COMBUSTIBLE MATERIALS IN ACCORDANCE WITH FIRE PROTECTION PROGRAM	2010002
COOK	3	3/31/2010	Finding (Green)	(PIM) Failure to Implement Plant Procedures for Using a Mobile Crane	2010002
CR	2	3/31/2010	NCV (Green)	(PIM) Failure to Take Compensatory Actions When a MCR to CSR Floor/Ceiling Interface Access Hatch Was Open	2010002
FAR	2	3/31/2010	NCV (Green)	(PIM) Failure to maintain control of combustible material	2010002
FAR	2	3/31/2010	NCV (Green)	(PIM) Failure to control combustible material in a no intervening combustible allowed area of the plant	2010002
MCG	2	3/31/2010	NCV (SL-IV)	(PIM) Failure to adequately update the UFSAR for FPP documents incorporated by reference	2010002
NA	2	3/31/2010	NCV (Green)	(PIM) Inadequate Procedure Implementation Results in Inoperability of a Fire Suppression System	2010002
PALI	3	3/31/2010	NCV (Green)	(PIM) Improper Construction of Scaffolding	2010002
PALI	3	3/31/2010	NCV (Green)	(PIM) Inadequate Fire Barrier	2010002
POIN	3	3/31/2010	NCV (Green)	(PIM) Failure To Establish Required Fire Watches	2010002
WAT	4	3/31/2010	NCV (Green)	(PIM) Failure to Control Transient Combustibles (Section 1R05)	2010002
CALV	1	3/30/2010	NCV (Green)	(PIM) Failure to Implement and Maintain Surveillance Procedures Associated with Fire Barrier and Penetration Seal Inspections	2010002

Site	Region	Event Date	Item Type	Title	Inspection Report Number
WC	4	3/3/2010	NCV (Green)	(PIM) Degraded Fire Barriers for Auxiliary Feedwater	2010002
SANO	4	1/4/2010	NCV (Green)	(PIM) Failure to Implement Fire Protection Plan Requirements Related to Hot Work Activities	2010002