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## NUCLEAR REGULATORY COMMISSION

### Inspections, Violations, and Penalties U.S. Commercial Nuclear Power Plants

By:

Susan B. Long, Suzanne Maurer, and David Burnham

Executive Editor: Miranda Maroney

February 1992

**Research Volume: Series IV - V**

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## PREFACE

This *Research Volume* is part of a sequence of publications and associated data sets on the enforcement activities of the Nuclear Regulatory Commission. The series, on NRC's regulation of commercial nuclear power plants, has three parts: (a) an *Introductory Volume*, (b) four *Research Volumes*, and (c) a *User's Guide* with accompanying computerized data bases developed by TRAC. Specific support provided for this project by the Deer Creek Foundation and the Alida Rockefeller Charitable Lead Trust No. 2 is gratefully acknowledged. Additional general support for TRAC activities has been received from the Rockefeller Family Fund, the Millstream Fund, the National Press Foundation, the New York Times Company Foundation, the Matz Foundation, the J. Roderick MacArthur Foundation, the Bauman Family Foundation, the Philip M. Stern Family Fund, and the Fund for Constitutional Government.

The *Introductory Volume* describes the information that has been obtained by TRAC, presents highlights drawn from the TRAC data bases on the Nuclear Regulatory Commission's enforcement activities, and discusses why nuclear power reactors and their regulation are important to the American people. The *Introductory Volume* is illuminated by 28 graphs which summarize key features and trends in NRC formal enforcement activities – inspecting the reactors, citing the utilities operating the reactors for violations, and imposing penalties. Tables, listing each of the 130 commercial nuclear power plants, provide information on the dates of construction, operation, and (where applicable) shutdown, state location, operating utility, generating capacity, and reactor type. Maps of the five NRC regions, identifying the location of each of these nuclear reactors are also included.

Four *accompanying Research Volumes* present detailed information in tabular form on NRC enforcement activities since the agency's inception in 1975. Separate series are included allowing a user to examine these activities across time, among NRC regions, by individual nuclear power plant or by its operating utility, by state, and according to phase in a reactor's lifespan (pre-construction, construction, operation, shutdown). Additional table series rank selected information about both the NRC and the nuclear power industry by activity, performance, and outcome.

The *User's Guide to NRC's Inspection Data Base* describes data sets developed by TRAC to facilitate public analysis of the regulation of commercial reactors. These TRAC data bases are available in a number of different forms, including a variety of easy-to-use formats suitable for use with personal computers. Included in this series is a separate data set containing NRC inspection information for each of the 130 commercial nuclear power plants.

The data bases created by TRAC provide a massive and unified source of information about nuclear power plants and the NRC's effort to regulate them. These files along with the accompanying printed volumes permit a whole new range of analyses, allowing the user to correlate the various characteristics of reactors – such as their age, capacity, manufacturer, type operating utility, etc. – with their inspection, violation, and penalty records.

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**LOCATING THE INFORMATION YOU NEED  
IN THE RESEARCH VOLUMES**

There are four *Research Volumes*. They are divided into eight series of tables -- designated by Roman numerals I through VIII. These cover the period 1975 to August of 1989. Each table series examines the NRC from a different perspective. For example, in the "Yearly Table Series I" NRC inspections, violations which are detected, and resulting proposed penalties are organized by *year*. In the "State Table Series V" these same NRC enforcement activities are summarized by *state*. The eight series, and the volumes they are located in, are listed below:

Series Number	Organization or Series Focus	Research Volume
I	Yearly	1st
II	Regional	1st
III	Facility	2nd
IV	Utility	3rd
V	State	3rd
VI	Ranking of Facilities	4th
VII	Ranking of Utilities	4th
VIII	Ranking of States	4th

**The Basic Tabulations**

The first three volumes contain the basic tabulations. Each table series within the first three volumes consists of 22 tables providing basic information on inspections, violations, and proposed civil penalties. (See following section, "A Guide to Individual Tables within Each Series" for an index to these tables.)

The first *Research Volume* (132 pages) contains two tables series: yearly and regional. *Series I* examines the NRC from the perspective of time. On a year-to-year basis, what NRC enforcement activities took place since the agency's establishment in 1975 to August of 1989? Separate tables within this series examine the number of NRC inspections, the length of inspections, the frequency of violations of all types, the volume of serious violations, and the number and dollar size of proposed penalties.

Where it is appropriate, the tables present rates in addition to the actual number or dollar amount. The NRC, for example, conducted a total of 49,900 inspections of commercial power reactors during the years covered in the report.

Expressed as a rate, the 49,900 inspections work out to an average of 26 inspections per reactor each year.

The year-to-year table series, as well as each other basic series, have one other refinement. In addition to providing the total numbers and rates of various enforcement activities, each table breaks down the enforcement actions according to what phase in the life of a reactor that these actions occurred. The four phases are the time prior to the issuance of a construction permit (pre-construction period), the time when a reactor is under construction (construction period), the time from when a reactor has been commissioned for commercial operation until it is permanently shut down (the operation period), or the time after final shutdown (post-shutdown period).

The second group of tables, *Series II*, included in the first *Research Volume* examines the NRC from the perspective of the agency's five regions. It allows the researcher to make a detailed comparison of how the official activities of NRC inspectors in one region compare with the activities in another, or with the activities of all inspectors working in the nation. Variation in NRC regional activity by year also may be examined with these tables. Once again, this table series presents the actual numbers of inspections, violations, and proposed penalties, as well as the appropriate rates. And once again, these enforcement activities are presented in total, and broken down according to the above four periods or phases in the lifespan of reactors.

The second *Research Volume* contains only a single table series, *Series III*. This extensive series (154 pages) presents all the information about NRC enforcement actions during each major phase of a reactor's life from the perspective of each of the 130 facilities or commercial nuclear power plants that the agency has regulated. Again, these tables present for each plant the actual numbers of enforcement activities, as well as the appropriate rates.

The third *Research Volume* (110 pages) has the remaining two basic table series. *Series IV* looks at NRC inspection activities from the perspective of the utilities licensed to operate the reactors. The remaining tables in this volume which make up *Series V* present the NRC activities according to the state where they occurred. As in all the other tables included in the basic tabulations, the information is presented in terms of both numbers and rates, and examines the frequency of each activity and outcome during each of the our phases of a reactor's life.

### **The Ranking Tabulations**

The final *Research Volume* (42 pages) contains three table series (VI-VIII). These supplement information from the basic table series by ranking the results. Each of these three ranking series contains a set of 7 tables (see next section). Unlike tables in the basic tabulation series, ranking tables only focus on the events which

occur during a reactor's operating phase. This period starts when a nuclear power plant is commissioned for commercial operation, and ends (where applicable) with its final shutdown.

The tables present selected information about both the NRC and the nuclear power industry in which the units under consideration are presented to the reader in rank order of outcome. *Series VI* in the final volume, for example, ranks the nation's nuclear facilities in five different ways. Which commercial nuclear power plants, during the phase in their lives from the time they have been commissioned to operate to the time they have been shutdown, have been subject to the most NRC inspections? Which to the least? Which reactors have the highest violations rates? Which the lowest? Which reactors have the highest penalty rates? Which have the lowest? Which reactors have had the largest proposed penalties? Which the smallest?

*Series VII* examines the same questions, but this time the operating utilities are ranked. The final series, *Series VIII*, ranks states based upon the outcome of NRC enforcement activities for reactors within their boundaries.

Reactors which were not yet commissioned for commercial operation in 1989, the end of the period covered by this analysis, are not included since the focus in the ranking series is on operating facilities. Nor are utilities and states which do not have nuclear plants included, nor whose reactors have not yet been commissioned for commercial electrical generation. Certain other reactors, utilities, and states are excluded from these rankings where information is not available for a sufficient period of time to reliably rank performance.<sup>1</sup> Full information for all 130 commercial nuclear power plants, plus operating utilities and states, of course is included in the basic tabulation series.

### **A Guide To Individual Tables Within Each Series**

Each series is divided into individual tables which focus on different aspects of NRC enforcement activities. In the "basic tabulations" (*Series I-V*) each series contains 22 tables. For the "ranking tabulations" (*Series VI-VIII*), each series consists of 7 tables.

The focus of a particular numbered table is the same within each of the pertinent series. For example, in the basic tabulations, "Table 1" always presents information on the number of NRC inspections, while "Table 13" presents counts of the number of penalties NRC has proposed. Thus, if you want to compare how many inspections NRC conducted in 1975 and ten years later, you would turn to Table 1 in *Yearly Series I*. If you need to determine the total number of NRC

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<sup>1</sup>Nuclear reactors which have been commissioned for commercial operation less than two years during the period covered by these data are excluded. Similarly, utilities which have less than 2 years combined experience across their plants commissioned for commercial operation are excluded, as are states where there is less than 2 years of combined operating experience among reactors within their borders.

inspections in the northeast, you would turn to Table 1 in *Regional Series II*, and to compare the frequency of inspections in Florida and California you would turn to Table 1 in *State Series V*. However, if you want to examine the number of penalties NRC has proposed against some specific nuclear facility you would turn to Table 13 in *Facilities Series III*, while the same information gathered for individual utilities would be found in Table 13 in the *Utilities Series IV*.

The following index summarizes what information each numbered table in the basic tabulation series (I-V) presents:

#### Index to Tables in Series I - V

Table Number	Table Topic	Type of Measure
1	inspections	number
2	inspection length	weeks
3	inspection length	average hours (per inspection)
4	inspections	annual number (per plant)
5	inspection length	annual time (per plant)
6	all violations	number
7	serious violations	number
8	serious violations	percent (of violations)
9	all violations	annual number (per plant)
10	serious violations	annual number (per plant)
11	all violations	percent (of inspections detecting)
12	serious violations	percent (of inspections detecting)
13	civil penalties	number
14	civil penalty dollars	total dollars
15	civil penalty dollars	total constant dollars
16	civil penalty dollars	average dollars (per penalty)
17	civil penalty dollars	average constant dollars (per penalty)
18	civil penalties	annual number (per plant)
19	civil penalty dollars	annual dollars (per plant)
20	civil penalty dollars	annual constant dollars (per plant)
21	civil penalties	percent (of inspections)
22	civil penalties	percent (of violations)



There are only 7 tables in each of the ranking tabulation series (VI - VIII). Again, the focus of a particular numbered table is the same within each of the ranking series. Unlike the basic tables, ranking tables differ principally in how the information is ordered or ranked, rather than in what type of information is covered. These series rank activity or outcomes on five different factors:

- the annual inspection time (per plant)  
[from basic table number 5 above]
- the annual number of violations (per plant)  
[from basic table number 9 above]
- the annual number of serious violations (per plant)  
[from basic table number 10 above]
- the annual number of civil penalties proposed (per plant)  
[from basic table number 18 above]
- the annual dollars (constant) of civil penalties proposed (per plant)  
[from basic table number 20 above]

All five of these rates (or ranks) are reported side-by-side in each table, but how the information is ordered differs across tables. The following index summarizes the differences among tables in the ranking tabulation series (VI - VIII):

#### Index to Tables in Series VI - VIII

Table Number	Type of Order	Method of Ordering Rates
1	alphabetical	not sorted (rates)
2	alphabetical	not sorted (ranks)
3	descending order	by inspection time
4	descending order	by all violations
5	descending order	by serious violations
6	descending order	by civil penalties
7	descending order	by penalty dollars

Thus, if you want to locate which reactors had the highest serious violation rates you would turn to Table 5 in *Ranking of Facilities Series VI*, while to locate the utility with the lowest serious violation rate you would turn to Table 5 in *Ranking of Utilities Series VII*. Table 2 in each of these ranking series allows you to look up a particular facility (*Series VI*), utility (*Series VII*), or state (*Series VIII*), and see how it ranks on each of the five indicators, while Table 1 in the corresponding series presents side-by-side comparisons of the actual rates themselves. In this manner you can assess whether NRC focuses its inspection time on utilities with the highest violation rates. Or, you can determine whether nuclear power plants with the highest serious violation rates also typically receive the highest penalties.

## CAUTIONS IN INTERPRETING THE INFORMATION

The data that form the building blocks for these table series come from a number of different computerized and non-computerized sources, largely drawn from internal management information systems maintained by the Nuclear Regulatory Commission. (These are described at more length in the *Introductory Volume*.)

While computerized information collected by the government for its own administrative purposes can provide data that can be extremely useful in assessing how the government is functioning, all such data have certain limitations. In considering the NRC, for example, several specific problems have emerged. First, while the underlying NRC files are supposed to log all agency inspections, it appears that the coverage is not absolutely complete, particularly for the first and last year reported in these volumes.<sup>2</sup> In addition, because of the date when TRAC obtained the NRC inspection data base, information about NRC operations in 1989 only covers the first seven months of that year. As a result, in reviewing long term trends, it is often prudent to place less reliance on figures for 1975 and 1989 than on those for intervening years.

Over the years, the NRC has made some changes in the information it collects and records, affecting comparability across time. One concrete example of this problem concerns how the agency classifies the seriousness of violations. Because of changes in the classification system, it is not meaningful to compare violation seriousness categories from 1975 to 1980 with the different categories used from 1981 to 1989. It is for this reason that the tables presenting information about serious violations only go back to 1981.

Another difficulty occurs when trying to compare counts across different types of NRC actions. While inspections and violations are recorded by NRC on a cover multiple violations (sometimes detected during more than one inspection).<sup>3</sup> "per plant" basis and there may be multiple violations detected during a single inspection, penalties were recorded on a "per utility" basis and a single penalty may To help improve comparability across NRC's inspection and penalty data bases, and to allow analysis at the level of the individual commercial nuclear power plant --

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<sup>2</sup>Delays in posting information to NRC's master inspection file make coverage less complete, particularly in the final seven months of coverage during 1989. Posting delays appear to be accentuated on those inspections where the NRC finds violations. Figures for 1975 are unusually low, as if there were delays in the initiation of this information system at the time NRC was organized, or some initial start-up problems in implementing the inspection reporting system. These are apparent problems for the inspection, but not the penalty files from the NRC. As a result, inspection and violation - but not penalty - counts are affected.

<sup>3</sup>The NRC's computerized penalty records appeared to treat instances where a penalty against a utility covered violations detected during more than a single inspection somewhat inconsistently. Occasionally, the penalty dollars were entered twice in the file, once for each inspection, thus inflating (double counting) the dollar amount of penalty involved. Through a comparison of these NRC files with other non-computerized NRC records, TRAC attempted to eliminate this source of double counting.

not just at the operating utility level, in these tables a penalty asserted against a series of reactors operated by one utility was counted for each reactor affected. The amount of the penalty was similarly averaged across these reactors.

Because the NRC penalty data did not clearly distinguish which violations were covered by a penalty, it was not possible to make corresponding adjustments when deriving figures for the percentage of violations on which a penalty was proposed. Thus, this index had to be computed by comparing the total number of penalties (where a single penalty covering more than one reactor is counted for each reactor), against the total number of violations. This should underestimate the percentage of individual violations penalized since the fact that a penalty may cover multiple violations is not reflected in the percentage calculation. Thus, the chief value of the percentages reported in Table 22 of the basic tabulations series is for comparison -- e.g., when comparing different years, regions, or plants. Differences among these percentages, rather than their absolute levels, should be less affected by these limitations in NRC recording systems.

Finally, not all violations are likely to be detected by the NRC, and the question of what is a violation or deviation -- as well as the classification of its seriousness -- involves difficult judgments by NRC personnel. Thus, it is important to bear in mind that violation rates reflect the behavior of NRC inspectors, not simply the behavior of the operating utilities.

Number of NRC Inspections  
By Utility and Period

Utility Name	Number of Inspections				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
United States	49,900	87	16,831	32,441	541
Alabama Pwr Co	876	-	213	663	-
Arizona Pub Serv	1,025	6	704	315	-
Arkansas Pwr	858	-	112	746	-
Balti Gas & Elec	753	-	59	694	-
Boston Edison	448	-	-	448	-
Carolina Pwr	1,961	10	419	1,532	-
Cleveland Elec	538	21	482	35	-
Commonwealth Eds	5,094	10	1,823	3,092	169
Conn Yankee	335	-	-	335	-
Consumers Pwr Co	642	-	-	642	-
ConEdison of NY	479	-	-	410	69
Dairyland Pwr	259	-	-	244	15
Detroit Edison	408	-	359	39	10
Duke Pwr	3,394	0	1,097	2,297	-
Duquesne Lt	675	-	278	397	-
Florida Pwr	495	-	40	455	-
Florida Pwr & Lt	1,895	6	237	1,652	-
Georgia Pwr	1,933	-	926	1,007	-
Gulf States	326	6	223	97	-
GPU Nucl	1,120	-	91	852	177

(CONTINUED)

Number of NRC Inspections  
By Utility and Period

	Number of Inspections				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
Houston Lt & Pwr	804	2	756	46	-
Illinois Pwr	409	1	354	54	-
Indiana & Mich	792	-	78	714	-
Iowa Elec Lt	354	-	0	354	-
Long Island Lt	334	-	334	-	-
Louisiana Pwr	374	-	259	115	-
Maine Yankee	328	-	-	328	-
Nebr Public Pwr	379	-	-	379	-
New York Pwr	731	-	38	693	-
Niagara Mohawk	642	-	264	378	-
Northeast Nucl	1,057	-	221	836	-
Northern States	909	-	-	909	-
Omaha Public Pwr	399	-	-	399	-
Pacif Gas & Elec	854	-	503	268	83
Penn Pwr & Lt	652	-	404	248	-
Phila Elec	1,457	-	453	986	18
Portland Gen	457	-	20	437	-
Publ Serv of Col	369	-	21	348	0
Publ Serv of NH	256	2	254	-	-
Publ Serv Elec	1,180	-	531	649	-
Roch Gas & Elec	312	-	-	312	-

(CONTINUED)



## Utility Series Table IV.1

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Number of NRC Inspections  
By Utility and Period

Utility Name	Number of Inspections				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Sacra Util Dist	434	-	0	434	0
So Calif Edison	1,147	-	375	772	-
So Carolina Elec	458	-	275	183	-
Sys Ener Resourc	700	-	557	143	-
Tenn Valley Auth	4,385	-	1,964	2,421	-
Texas Util Elec	823	-	823	-	-
Toledo Edison	419	-	95	324	-
Union Elec	312	4	207	101	-
Vermont Yankee	347	-	-	347	-
Virginia Elec	2,140	-	311	1,829	-
Wash Publ Pwr	591	7	424	160	-
Wisc Elec Pwr	621	-	-	621	-
Wisc Publ Serv	288	-	-	288	-
Wolf Creek Nucl	393	12	247	134	-
Yankee Atomic	279	-	-	279	-

NRC Inspection Weeks  
By Utility and Period

	Inspection Weeks (week = 40 hours)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
United States	86,113	32	29,758	55,088	1,235
Alabama Pwr Co	1,088	-	203	804	-
Arizona Pub Serv	1,585	1	1,160	424	-
Arkansas Pwr	1,275	-	180	1,095	-
Balti Gas & Elec	948	-	55	893	-
Boston Edison	1,149	-	-	1,149	-
Carolina Pwr	3,292	2	873	2,417	-
Cleveland Elec	988	9	850	129	-
Commonwealth Eds	7,459	2	2,988	4,389	80
Conn Yankee	614	-	-	614	-
Consumers Pwr Co	1,521	-	-	1,521	-
ConEdison of NY	930	-	-	893	37
Dairyland Pwr	490	-	-	473	18
Detroit Edison	1,233	-	1,081	147	5
Duke Pwr	3,591	0	1,106	2,485	-
Dugesne Lt	1,473	-	657	816	-
Florida Pwr	1,029	-	55	975	-
Florida Pwr & Lt	2,448	4	264	2,181	-
Georgia Pwr	2,743	-	1,488	1,256	-
Gulf States	903	3	625	275	-
GPU Nucl	3,286	-	129	2,143	1,014

(CONTINUED)

NRC Inspection Weeks  
By Utility and Period

	Inspection Weeks (week = 40 hours)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
Houston Lt & Pwr	1,465	1	1,391	73	-
Illinois Pwr	1,051	0	869	182	-
Indiana & Mich	1,244	-	76	1,168	-
Iowa Elec Lt	822	-	0	822	-
Long Island Lt	806	-	806	-	-
Louisiana Pwr	1,070	-	735	335	-
Maine Yankee	666	-	-	666	-
Nebr Public Pwr	795	-	-	795	-
New York Pwr	1,376	-	-	1,345	-
Niagara Mohawk	1,307	-	575	732	-
Northeast Nucl	1,680	-	502	1,178	-
Northern States	1,415	-	-	1,415	-
Omaha Public Pwr	804	-	-	804	-
Pacif Gas & Elec	1,382	-	808	502	72
Penn Pwr & Lt	997	-	606	391	-
Phila Elec	2,388	-	858	1,522	8
Portland Gen	1,071	-	36	1,035	-
Publ Serv of Col	948	-	42	907	0
Publ Serv of NH	717	0	716	-	-
Publ Serv Elec	1,904	-	928	976	-
Roch Gas & Elec	656	-	-	656	-

(CONTINUED)

NRC Inspection Weeks  
By Utility and Period

	Inspection Weeks (week = 40 hours)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
Sacra Util Dist	1,315	-	0	1,315	0
So Calif Edison	1,792	-	495	1,297	-
So Carolina Elec	1,079	-	412	667	-
Sys Ener Resourc	974	-	566	409	-
Tenn Valley Auth	5,662	-	2,159	3,503	-
Texas Util Elec	2,837	-	2,837	-	-
Toledo Edison	1,332	-	169	1,164	-
Union Elec	840	1	537	302	-
Vermont Yankee	674	-	-	674	-
Virginia Elec	2,626	-	431	2,196	-
Wash Publ Pwr	1,238	2	788	448	-
Wisc Elec Pwr	862	-	-	862	-
Wisc Publ Serv	599	-	-	599	-
Wolf Creek Nucl	1,168	7	673	488	-
Yankee Atomic	503	-	-	503	-

Average Hours Per Inspection  
By Utility and Period

Utility Name	Average Inspection Time (hours)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
United States	69	15	71	68	91
Alabama Pwr Co	50	-	38	53	-
Arizona Pub Serv	62	7	66	54	-
Arkansas Pwr	59	-	64	59	-
Balti Gas & Elec	50	-	37	51	-
Boston Edison	103	-	-	103	-
Carolina Pwr	67	10	83	63	-
Cleveland Elec	73	16	71	147	-
Commonwealth Eds	59	10	66	57	19
Conn Yankee	73	-	-	73	-
Consumers Pwr Co	95	-	-	95	-
ConEdison of NY	78	-	-	87	22
Dairyland Pwr	76	-	-	77	47
Detroit Edison	121	-	120	150	21
Duke Pwr	42	-	40	43	-
Dugesne Lt	87	-	95	82	-
Florida Pwr	83	-	55	86	-
Florida Pwr & Lt	52	24	44	53	-
Georgia Pwr	57	-	64	50	-
Gulf States	111	19	112	113	-
GPU Nucl	117	-	57	101	229

(CONTINUED)



## Utility Series Table IV.3

294

Average Hours Per Inspection  
By Utility and Period

	Average Inspection Time (hours)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
Houston Lt & Pwr	73	10	74	64	-
Illinois Pwr	103	8	98	135	-
Indiana & Mich	63	-	39	65	-
Iowa Elec Lt	93	-	-	93	-
Long Island Lt	97	-	97	-	-
Louisiana Pwr	114	-	114	117	-
Maine Yankee	81	-	-	81	-
Nebr Public Pwr	84	-	-	84	-
New York Pwr	75	-	33	78	-
Niagara Mohawk	81	-	87	77	-
Northeast Nucl	64	-	91	56	-
Northern States	62	-	-	62	-
Omaha Public Pwr	81	-	-	81	-
Pacif Gas & Elec	65	-	64	75	35
Penn Pwr & Lt	61	-	60	63	-
Phila Elec	66	-	76	62	17
Portland Gen	94	-	73	95	-
Publ Serv of Col	103	-	79	104	-
Publ Serv of NH	112	7	113	-	-
Publ Serv Elec	65	-	70	60	-
Roch Gas & Elec	84	-	-	84	-

(CONTINUED)

## Utility Series Table IV.3

295

Average Hours Per Inspection  
By Utility and Period

Utility Name	Average Inspection Time (hours)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Sacra Util Dist	121	-	-	121	-
So Calif Edison	62	-	53	67	-
So Carolina Elec	94	-	60	146	-
Sys Ener Resourc	56	-	41	114	-
Tenn Valley Auth	52	-	44	58	-
Texas Util Elec	138	-	138	-	-
Toledo Edison	127	-	71	144	-
Union Elec	108	11	104	120	-
Vermont Yankee	78	-	-	78	-
Virginia Elec	49	-	55	48	-
Wash Publ Pwr	84	12	74	112	-
Wisc Elec Pwr	56	-	-	56	-
Wisc Publ Serv	83	-	-	83	-
Wolf Creek Nucl	119	24	109	146	-
Yankee Atomic	72	-	-	72	-

Annual Average Number of Inspections Per Plant  
By Utility and Period

Utility Name	Inspection Rate (number)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
United States	26	3	24	30	7
Alabama Pwr Co	30	-	22	34	-
Arizona Pub Serv	23	2	22	39	-
Arkansas Pwr	29	-	21	31	-
Balti Gas & Elec	26	-	23	26	-
Boston Edison	31	-	-	31	-
Carolina Pwr	34	3	34	36	-
Cleveland Elec	18	5	21	20	-
Commonwealth Eds	27	3	28	28	16
Conn Yankee	23	-	-	23	-
Consumers Pwr Co	22	-	-	22	-
ConEdison of NY	16	-	-	28	5
Dairyland Pwr	18	-	-	20	7
Detroit Edison	14	-	27	25	1
Duke Pwr	33	0	30	36	-
Dugesne Lt	23	-	19	27	-
Florida Pwr	34	-	18	37	-
Florida Pwr & Lt	32	3	29	34	-
Georgia Pwr	33	-	29	39	-
Gulf States	22	3	24	31	-
GPU Nucl	26	-	28	28	17

(CONTINUED)

Annual Average Number of Inspections Per Plant  
By Utility and Period

Utility Name	Inspection Rate (number)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Houston Lt & Pwr	27	1	29	40	-
Illinois Pwr	28	1	30	31	-
Indiana & Mich	27	-	19	28	-
Iowa Elec Lt	24	-	0	24	-
Long Island Lt	23	-	23	-	-
Louisiana Pwr	26	-	24	29	-
Maine Yankee	22	-	-	22	-
Nebr Public Pwr	26	-	-	26	-
New York Pwr	25	-	17	26	-
Niagara Mohawk	22	-	20	24	-
Northeast Nucl	24	-	18	26	-
Northern States	21	-	-	21	-
Omaha Public Pwr	27	-	-	27	-
Pacif Gas & Elec	19	-	23	29	6
Penn Pwr & Lt	22	-	22	23	-
Phila Elec	20	-	18	30	1
Portland Gen	31	-	14	33	-
Publ Serv of Col	25	-	11	27	0
Publ Serv of NH	17	1	19	-	-
Publ Serv Elec	27	-	25	29	-
Roch Gas & Elec	21	-	-	21	-

(CONTINUED)

Annual Average Number of Inspections Per Plant  
By Utility and Period

	Inspection Rate (number)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
Sacra Util Dist	30	-	0	31	0
So Calif Edison	26	-	21	30	-
So Carolina Elec	31	-	31	32	-
Sys Ener Resourc	24	-	22	35	-
Tenn Valley Auth	33	-	26	43	-
Texas Util Elec	28	-	28	-	-
Toledo Edison	29	-	27	29	-
Union Elec	21	3	24	22	-
Vermont Yankee	24	-	-	24	-
Virginia Elec	37	-	33	37	-
Wash Publ Pwr	13	2	12	34	-
Wisc Elec Pwr	21	-	-	21	-
Wisc Publ Serv	20	-	-	20	-
Wolf Creek Nucl	27	5	30	34	-
Yankee Atomic	19	-	-	19	-



Annual Average Inspection Weeks Per Plant  
By Utility and Period

	Inspection Rate (weeks)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
United States	45	1	43	50	15
Alabama Pwr Co	37	-	21	45	-
Arizona Pub Serv	36	0	36	52	-
Arkansas Pwr	44	-	34	46	-
Balti Gas & Elec	32	-	21	33	-
Boston Edison	79	-	-	79	-
Carolina Pwr	56	1	71	56	-
Cleveland Elec	34	2	37	74	-
Commonwealth Eds	39	1	45	40	7
Conn Yankee	42	-	-	42	-
Consumers Pwr Co	52	-	-	52	-
ConEdison of NY	32	-	-	61	3
Dairyland Pwr	34	-	-	38	8
Detroit Edison	42	-	83	93	0
Duke Pwr	35	0	30	39	-
Dugesne Lt	50	-	45	56	-
Florida Pwr	70	-	25	78	-
Florida Pwr & Lt	42	2	32	45	-
Georgia Pwr	47	-	46	48	-
Gulf States	62	1	67	87	-

(CONTINUED)

Note: An inspection week = 40 hours.

Annual Average Inspection Weeks Per Plant  
By Utility and Period

Utility Name	Inspection Rate (weeks)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
GPU Nucl	75	-	39	71	98
Houston Lt & Pwr	50	0	53	64	-
Illinois Pwr	72	0	74	105	-
Indiana & Mich	43	-	18	47	-
Iowa Elec Lt	56	-	0	57	-
Long Island Lt	55	-	55	-	-
Louisiana Pwr	73	-	69	86	-
Maine Yankee	45	-	-	45	-
Nebr Public Pwr	54	-	-	54	-
New York Pwr	47	-	14	50	-
Niagara Mohawk	45	-	44	46	-
Northeast Nucl	38	-	41	37	-
Northern States	32	-	-	32	-
Omaha Public Pwr	55	-	-	55	-
Pacif Gas & Elec	31	-	37	54	6
Penn Pwr & Lt	34	-	33	36	-
Phila Elec	33	-	33	46	1
Portland Gen	73	-	26	78	-
Publ Serv of Col	65	-	21	71	0
Publ Serv of NH	49	0	55	-	-

(CONTINUED)

Note: An inspection week = 40 hours.

## Utility Series Table IV.5

301

Annual Average Inspection Weeks Per Plant  
By Utility and Period

	Inspection Rate (weeks)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
Publ Serv Elec	43	-	44	43	-
Roch Gas & Elec	45	-	-	45	-
Sacra Util Dist	90	-	0	93	0
So Calif Edison	41	-	28	50	-
So Carolina Elec	74	-	46	118	-
Sys Ener Resourc	33	-	23	99	-
Tenn Valley Auth	43	-	29	62	-
Texas Util Elec	97	-	97	-	-
Toledo Edison	91	-	47	105	-
Union Elec	57	1	62	65	-
Vermont Yankee	46	-	-	46	-
Virginia Elec	45	-	46	45	-
Wash Publ Pwr	28	1	22	96	-
Wisc Elec Pwr	29	-	-	29	-
Wisc Publ Serv	41	-	-	41	-
Wolf Creek Nucl	80	3	81	123	-
Yankee Atomic	34	-	-	34	-

Note: An inspection week = 40 hours.

## Utility Series Table IV.6

302

Number of Violations Detected by NRC  
By Utility and Period

	Number of Violations Detected by NRC				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
United States	27,147	11	6,999	19,834	303
Alabama Pwr Co	305	-	47	258	-
Arizona Pub Serv	212	0	142	70	-
Arkansas Pwr	554	-	70	484	-
Balti Gas & Elec	458	-	10	448	-
Boston Edison	352	-	-	352	-
Carolina Pwr	1,102	0	201	901	-
Cleveland Elec	307	5	281	21	-
Commonwealth Eds	2,882	6	970	1,850	56
Conn Yankee	210	-	-	210	-
Consumers Fwr Co	467	-	-	467	-
ConEdison of NY	341	-	-	288	53
Dairyland Pwr	172	-	-	170	2
Detroit Edison	307	-	281	25	1
Duke Pwr	1,472	0	350	1,122	-
Duquesne Lt	421	-	112	309	-
Florida Pwr	430	-	16	414	-
Florida Pwr & Lt	1,176	0	84	1,092	-
Georgia Pwr	1,005	-	356	649	-
Gulf States	189	0	129	60	-
GPU Nucl	743	-	27	573	143

(CONTINUED)

Number of Violations Detected by NRC  
By Utility and Period

	Number of Violations Detected by NRC				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
Houston Lt & Pwr	257	0	245	12	-
Illinois Pwr	246	0	207	39	-
Indiana & Mich	638	-	44	594	-
Iowa Elec Lt	319	-	0	319	-
Long Island Lt	98	-	98	-	-
Louisiana Pwr	213	-	112	101	-
Maine Yankee	226	-	-	226	-
Nebr Public Pwr	266	-	-	266	-
New York Pwr	501	-	18	483	-
Niagara Mohawk	328	-	99	229	-
Northeast Nucl	401	-	63	338	-
Northern States	433	-	-	433	-
Omaha Public Pwr	298	-	-	298	-
Pacif Gas & Elec	234	-	80	112	42
Penn Pwr & Lt	228	-	166	62	-
Phila Elec	911	-	194	711	6
Portland Gen	229	-	17	212	-
Publ Serv of Col	312	-	28	284	0
Publ Serv of NH	109	0	109	-	-
Publ Serv Elec	603	-	230	373	-
Roch Gas & Elec	183	-	-	183	-

(CONTINUED)



## Utility Series Table IV.6

304

Number of Violations Detected by NRC  
By Utility and Period

Utility Name	Number of Violations Detected by NRC				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Sacra Util Dist	275	-	0	275	0
So Calif Edison	338	-	98	240	-
So Carolina Elec	182	-	94	88	-
Sys Ener Resourc	260	-	193	67	-
Tenn Valley Auth	2,713	-	879	1,834	-
Texas Util Elec	312	-	312	-	-
Toledo Edison	355	-	61	294	-
Union Elec	174	0	139	35	-
Vermont Yankee	197	-	-	197	-
Virginia Elec	1,046	-	91	955	-
Wash Publ Pwr	321	0	217	104	-
Wisc Elec Pwr	319	-	-	319	-
Wisc Publ Serv	172	-	-	172	-
Wolf Creek Nucl	236	0	129	107	-
Yankee Atomic	109	-	-	109	-

## Utility Series Table IV.7

305

Number of Serious Violations Detected by NRC  
By Utility and Period (1981-1989 only)

Utility Name	Serious Violations Detected by NRC				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
United States	1,031	-	160	865	6
Alabama Pwr Co	14	-	0	14	-
Arizona Pub Serv	17	-	3	14	-
Arkansas Pwr	10	-	-	10	-
Balti Gas & Elec	4	-	-	4	-
Boston Edison	16	-	-	16	-
Carolina Pwr	51	-	1	50	-
Cleveland Elec	3	-	3	0	-
Commonwealth Eds	114	-	20	91	3
Conn Yankee	11	-	-	11	-
Consumers Pwr Co	7	-	-	7	-
ConEdison of NY	6	-	-	6	0
Dairyland Pwr	4	-	-	4	0
Detroit Edison	15	-	15	0	0
Duke Pwr	49	-	2	47	-
Dugesne Lt	8	-	1	7	-
Florida Pwr	8	-	-	8	-
Florida Pwr & Lt	82	-	0	82	-
Georgie Pwr	37	-	7	30	-
Gulf States	11	-	7	4	-
GPU Nucl	12	-	-	9	3

(CONTINUED)

## Utility Series Table IV.7

306

Number of Serious Violations Detected by NRC  
By Utility and Period (1981-1989 only)

	Serious Violations Detected by NRC				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
Houston Lt & Pwr	12	-	12	0	-
Illinois Pwr	21	-	19	2	-
Indiana & Mich	31	-	-	31	-
Iowa Elec Lt	4	-	-	4	-
Long Island Lt	0	-	0	-	-
Louisiana Pwr	4	-	1	3	-
Maine Yankee	18	-	-	18	-
Nebr Public Pwr	15	-	-	15	-
New York Pwr	8	-	-	8	-
Niagara Mohawk	5	-	0	5	-
Northeast Nucl	12	-	0	12	-
Northern States	11	-	-	11	-
Omaha Public Pwr	12	-	-	12	-
Pacif Gas & Elec	2	-	2	0	0
Penn Pwr & Lt	3	-	3	0	-
Phila Elec	36	-	5	31	0
Portland Gen	15	-	-	15	-
Publ Serv of Col	6	-	-	6	0
Publ Serv of NH	0	-	0	-	-
Publ Serv Elec	27	-	2	25	-
Roch Gas & Elec	1	-	-	1	-

(CONTINUED)

Number of Serious Violations Detected by NRC  
By Utility and Period (1981-1989 only)

	Serious Violations Detected by NRC				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
Sacra Util Dist	18	-	-	18	0
So Calif Edison	29	-	9	20	-
So Carolina Elec	8	-	0	8	-
Sys Ener Resourc	8	-	7	1	-
Tenn Valley Auth	117	-	13	104	-
Texas Util Elec	13	-	13	-	-
Toledo Edison	22	-	-	22	-
Union Elec	8	-	1	7	-
Vermont Yankee	5	-	-	5	-
Virginia Elec	40	-	-	40	-
Wash Publ Pwr	17	-	11	6	-
Wisc Elec Pwr	11	-	-	11	-
Wisc Publ Serv	2	-	-	2	-
Wolf Creek Nucl	8	-	3	5	-
Yankee Atomic	3	-	-	3	-

Percent of Detected Violations Which NRC Deems Serious  
By Utility and Period (1981-1989 only)

Utility Name	Serious Violation Component (percent)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
United States	6.3	-	3.9	7.2	4.7
Alabama Pwr Co	6.5	-	0.0	6.5	-
Arizona Pub Serv	9.7	-	2.8	20.0	-
Arkansas Pwr	3.0	-	-	3.0	-
Balti Gas & Elec	2.0	-	-	2.0	-
Boston Edison	8.1	-	-	8.1	-
Carolina Pwr	7.5	-	0.8	9.1	-
Cleveland Elec	1.7	-	1.9	0.0	-
Commonwealth Eds	6.9	-	3.1	9.3	12.5
Conn Yankee	16.4	-	-	16.4	-
Consumers Pwr Co	3.4	-	-	3.4	-
ConEdison of NY	4.4	-	-	4.5	0.0
Dairyland Pwr	4.9	-	-	5.0	0.0
Detroit Edison	6.3	-	7.0	0.0	0.0
Duke Pwr	5.3	-	1.1	6.4	-
Dugesne Lt	3.9	-	1.6	4.9	-
Florida Pwr	3.1	-	-	3.1	-
Florida Pwr & Lt	10.8	-	0.0	11.4	-
Georgia Pwr	5.5	-	3.0	6.8	-
Gulf States	6.5	-	6.4	6.7	-
GPU Nucl	4.0	-	-	4.1	3.6

(CONTINUED)



Percent of Detected Violations Which NRC Deems Serious  
By Utility and Period (1981-1989 only)

	Serious Violation Component (percent)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
Houston Lt & Pwr	8.0	-	8.7	0.0	-
Illinois Pwr	10.9	-	12.4	5.1	-
Indiana & Mich	7.8	-	-	7.8	-
Iowa Elec Lt	3.0	-	-	3.0	-
Long Island Lt	0.0	-	0.0	-	-
Louisiana Pwr	2.5	-	1.7	3.0	-
Maine Yankee	14.6	-	-	14.6	-
Nebr Public Pwr	7.9	-	-	7.9	-
New York Pwr	4.5	-	-	4.5	-
Niagara Mohawk	3.1	-	0.0	6.7	-
Northeast Nucl	7.3	-	0.0	10.5	-
Northern States	4.8	-	-	4.8	-
Omaha Public Pwr	5.4	-	-	5.4	-
Pacif Gas & Elec	1.2	-	3.4	0.0	0.0
Penn Pwr & Lt	2.2	-	4.1	0.0	-
Phila Elec	8.0	-	4.8	9.0	-
Portland Gen	11.5	-	-	11.5	-
Publ Serv of Col	2.8	-	-	2.8	-
Publ Serv of NH	0.0	-	0.0	-	-
Publ Serv Elec	8.3	-	2.4	10.3	-
Roch Gas & Elec	1.0	-	-	1.0	-

(CONTINUED)

Percent of Detected Violations Which NRC Deems Serious  
By Utility and Period (1981-1989 only)

Utility Name	Serious Violation Component (percent)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Sacra Util Dist	10.0	-	-	10.0	-
So Calif Edison	13.6	-	14.5	13.2	-
So Carolina Elec	5.8	-	0.0	9.1	-
Sys Ener Resourc	3.9	-	5.1	1.5	-
Tenn Valley Auth	5.8	-	2.5	7.0	-
Texas Util Elec	5.4	-	5.4	-	-
Toledo Edison	10.2	-	-	10.2	-
Union Elec	7.5	-	1.4	20.0	-
Vermont Yankee	5.2	-	-	5.2	-
Virginia Elec	7.1	-	-	7.1	-
Wash Publ Pwr	8.9	-	12.6	5.8	-
Wisc Elec Pwr	5.6	-	-	5.6	-
Wisc Publ Serv	2.3	-	-	2.3	-
Wolf Creek Nucl	4.2	-	3.6	4.7	-
Yankee Atomic	7.0	-	-	7.0	-

Annual Average Number of Violations Detected by NRC Per Plant  
By Utility and Period

	Violation Rate				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
United States	14	0	10	18	4
Alabama Pwr Co	10	-	5	13	-
Arizona Pub Serv	5	0	4	9	-
Arkansas Pwr	19	-	13	20	-
Balti Gas & Elec	16	-	4	17	-
Boston Edison	24	-	-	24	-
Carolina Pwr	19	0	16	21	-
Cleveland Elec	10	1	12	12	-
Commonwealth Eds	15	2	15	17	5
Conn Yankee	14	-	-	14	-
Consumers Pwr Co	16	-	-	16	-
ConEdison of NY	12	-	-	20	4
Dairyland Pwr	12	-	-	14	1
Detroit Edison	10	-	22	16	0
Duke Pwr	14	0	9	17	-
Duquesne Lt	14	-	8	21	-
Florida Pwr	29	-	7	33	-
Florida Pwr & Lt	20	0	10	23	-
Georgia Pwr	17	-	11	25	-
Gulf States	13	0	14	19	-
GPU Nucl	17	-	8	19	14

(CONTINUED)

Annual Average Number of Violations Detected by NRC Per Plant  
By Utility and Period

	Violation Rate				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
Houston Lt & Pwr	9	0	9	10	-
Illinois Pwr	17	0	18	22	-
Indiana & Mich	22	-	11	24	-
Iowa Elec Lt	22	-	0	22	-
Long Island Lt	7	-	7	-	-
Louisiana Pwr	15	-	10	26	-
Maine Yankee	15	-	-	15	-
Nebr Public Pwr	18	-	-	18	-
New York Pwr	17	-	8	18	-
Niagara Mohawk	11	-	8	14	-
Northeast Nucl	9	-	5	11	-
Northern States	10	-	-	10	-
Omaha Public Pwr	20	-	-	20	-
Pacif Gas & Elec	5	-	4	12	3
Penn Pwr & Lt	8	-	9	6	-
Phila Elec	12	-	8	22	0
Portland Gen	16	-	12	16	-
Publ Serv of Col	21	-	14	22	0
Publ Serv of NH	7	0	8	-	-
Publ Serv Elec	14	-	11	16	-
Roch Gas & Elec	13	-	-	13	-

(CONTINUED)

Annual Average Number of Violations Detected by NRC Per Plant  
By Utility and Period

Utility Name	Violation Rate				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Sacra Util Dist	19	-	0	19	0
So Calif Edison	8	-	5	9	-
So Carolina Elec	12	-	10	16	-
Sys Ener Resourc	9	-	8	16	-
Tenn Valley Auth	21	-	12	32	-
Texas Util Elec	11	-	11	-	-
Toledo Edison	24	-	17	27	-
Union Elec	12	0	16	7	-
Vermont Yankee	13	-	-	13	-
Virginia Elec	18	-	10	19	-
Wash Publ Pwr	7	0	6	22	-
Wisc Elec Pwr	11	-	-	11	-
Wisc Publ Serv	12	-	-	12	-
Wolf Creek Nucl	16	0	15	27	-
Yankee Atomic	7	-	-	7	-



Annual Average Number of Serious Violations Detected by NRC Per Plant  
By Utility and Period (1981-1989 only)

	Serious Violation Rate				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
United States	0.9	-	0.5	1.2	0.1
Alabama Pwr Co	0.8	-	0.0	0.8	-
Arizona Pub Serv	0.7	-	0.2	1.7	-
Arkansas Pwr	0.6	-	-	0.6	-
Balti Gas & Elec	0.2	-	-	0.2	-
Boston Edison	1.9	-	-	1.9	-
Carolina Pwr	1.5	-	0.2	1.8	-
Cleveland Elec	0.2	-	0.2	0.0	-
Commonwealth Eds	1.0	-	0.6	1.3	0.3
Conn Yankee	1.3	-	-	1.3	-
Consumers Pwr Co	0.4	-	-	0.4	-
ConEdison of NY	0.3	-	-	0.7	0.0
Dairyland Pwr	0.5	-	-	0.6	0.0
Detroit Edison	0.9	-	2.1	0.0	0.0
Duke Pwr	0.8	-	0.1	1.0	-
Dugesne Lt	0.5	-	0.1	0.7	-
Florida Pwr	0.9	-	-	0.9	-
Florida Pwr & Lt	2.4	-	0.0	2.6	-
Georgia Pwr	1.1	-	0.5	1.5	-
Gulf States	1.3	-	1.3	1.3	-
GPU Nucl	0.5	-	-	0.5	0.3

(CONTINUED)

Annual Average Number of Serious Violations Detected by NRC Per Plant  
By Utility and Period (1981-1989 only)

	Serious Violation Rate				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
Houston Lt & Pwr	0.7	-	0.7	0.0	-
Illinois Pwr	2.4	-	2.8	1.2	-
Indiana & Mich	1.8	-	-	1.8	-
Iowa Elec Lt	0.5	-	-	0.5	-
Long Island Lt	0.0	-	0.0	-	-
Louisiana Pwr	0.5	-	0.2	0.8	-
Maine Yankee	2.1	-	-	2.1	-
Nebr Public Pwr	1.7	-	-	1.7	-
New York Pwr	0.5	-	-	0.5	-
Niagara Mohawk	0.3	-	0.0	0.5	-
Northeast Nucl	0.5	-	0.0	0.6	-
Northern States	0.4	-	-	0.4	-
Omaha Public Pwr	1.4	-	-	1.4	-
Pacif Gas & Elec	0.1	-	0.2	0.0	0.0
Penn Pwr & Lt	0.2	-	0.5	0.0	-
Phila Elec	0.8	-	0.4	1.5	0.0
Portland Gen	1.7	-	-	1.7	-
Publ Serv of Col	0.7	-	-	0.7	0.0
Publ Serv of NH	0.0	-	0.0	-	-
Publ Serv Elec	1.0	-	0.3	1.3	-
Roch Gas & Elec	0.1	-	-	0.1	-

(CONTINUED)

Annual Average Number of Serious Violations Detected by NRC Per Plant  
By Utility and Period (1981-1989 only)

Utility Name	Serious Violation Rate				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Sacra Util Dist	2.1	-	-	2.1	0.0
So Calif Edison	1.1	-	1.5	1.0	-
So Carolina Elec	0.9	-	0.0	1.4	-
Sys Ener Resourc	0.5	-	0.5	0.2	-
Tenn Valley Auth	1.5	-	0.4	2.5	-
Texas Util Elec	0.8	-	0.8	-	-
Toledo Edison	2.5	-	-	2.5	-
Union Elec	0.9	-	0.3	1.5	-
Vermont Yankee	0.6	-	-	0.6	-
Virginia Elec	1.2	-	-	1.2	-
Wash Publ Pwr	0.7	-	0.5	1.3	-
Wisc Elec Pwr	0.6	-	-	0.6	-
Wisc Publ Serv	0.2	-	-	0.2	-
Wolf Creek Nucl	0.9	-	0.6	1.3	-
Yankee Atomic	0.3	-	-	0.3	-

Percent of Inspections Detecting a Violation  
By Utility and Period

	Violation Detection Rate (percent)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
United States	30.7	8.0	24.7	34.0	28.1
Alabama Pwr Co	24.8	-	16.9	27.3	-
Arizona Pub Serv	13.4	0.0	12.9	14.6	-
Arkansas Pwr	38.9	-	36.6	39.3	-
Balti Gas & Elec	34.3	-	15.3	35.9	-
Boston Edison	38.6	-	-	38.6	-
Carolina Pwr	33.7	0.0	31.0	34.6	-
Cleveland Elec	26.8	14.3	26.8	34.3	-
Commonwealth Eds	31.2	40.0	28.4	33.4	21.3
Conn Yankee	33.4	-	-	33.4	-
Consumers Pwr Co	36.0	-	-	36.0	-
ConEdison of NY	34.2	-	-	34.4	33.3
Dairyland Pwr	35.9	-	-	37.3	13.3
Detroit Edison	36.3	-	37.0	35.9	10.0
Duke Pwr	27.3	-	20.3	30.6	-
Duquesne Lt	33.5	-	28.4	37.0	-
Florida Pwr	49.5	-	25.0	51.6	-
Florida Pwr & Lt	35.3	0.0	24.9	36.9	-
Georgia Pwr	33.4	-	26.3	39.9	-
Gulf States	38.0	0.0	37.2	42.3	-
GPU Nucl	32.9	-	23.1	33.2	36.2

(CONTINUED)

Percent of Inspections Detecting a Violation  
By Utility and Period

Utility Name	Violation Detection Rate (percent)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Houston Lt & Pwr	18.2	0.0	18.0	21.7	-
Illinois Pwr	31.8	0.0	30.8	38.9	-
Indiana & Mich	41.3	-	33.3	42.2	-
Iowa Elec Lt	40.1	-	-	40.1	-
Long Island Lt	21.0	-	21.0	-	-
Louisiana Pwr	33.4	-	25.9	50.4	-
Maine Yankee	37.5	-	-	37.5	-
Nebr Public Pwr	43.0	-	-	43.0	-
New York Pwr	32.7	-	26.3	33.0	-
Niagara Mohawk	29.1	-	23.1	33.3	-
Northeast Nucl	20.2	-	15.4	21.4	-
Northern States	27.9	-	-	27.9	-
Omaha Public Pwr	40.9	-	-	40.9	-
Pacif Gas & Elec	16.6	-	12.3	22.0	25.3
Penn Pwr & Lt	22.4	-	24.3	17.4	-
Phila Elec	34.9	-	28.3	38.0	27.8
Portland Gen	25.6	-	45.0	24.7	-
Publ Serv of Col	47.7	-	57.1	47.1	-
Publ Serv of NH	26.6	0.0	26.8	-	-
Publ Serv Elec	30.1	-	26.7	32.8	-
Roch Gas & Elec	31.1	-	-	31.1	-

(CONTINUED)



Percent of Inspections Detecting a Violation  
By Utility and Period

Utility Name	Violation Detection Rate (percent)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Sacra Util Dist	32.7	-	-	32.7	-
So Calif Edison	17.3	-	17.9	17.0	-
So Carolina Elec	27.9	-	24.0	33.9	-
Sys Ener Resourc	24.7	-	22.8	32.2	-
Tenn Valley Auth	34.2	-	27.1	39.9	-
Texas Util Elec	22.0	-	22.0	-	-
Toledo Edison	41.1	-	33.7	43.2	-
Union Elec	34.6	0.0	39.1	26.7	-
Vermont Yankee	32.3	-	-	32.3	-
Virginia Elec	29.8	-	16.4	32.1	-
Wash Publ Pwr	24.4	0.0	22.4	30.6	-
Wisc Elec Pwr	28.5	-	-	28.5	-
Wisc Publ Serv	30.9	-	-	30.9	-
Wolf Creek Nucl	38.2	0.0	33.2	50.7	-
Yankee Atomic	26.9	-	-	26.9	-

Percent of Inspections Detecting a Serious Violation  
By Utility and Period (1981-1989 only)

Utility Name	Serious Violation Detection Rate (pct)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
United States	3.1	-	1.5	3.8	1.9
Alabama Pwr Co	2.5	-	0.0	2.6	-
Arizona Pub Serv	1.9	-	0.5	4.4	-
Arkansas Pwr	1.7	-	-	1.7	-
Balti Gas & Elec	0.9	-	-	0.9	-
Boston Edison	5.7	-	-	5.7	-
Carolina Pwr	3.7	-	0.3	4.7	-
Cleveland Elec	0.8	-	0.8	0.0	-
Commonwealth Eds	3.3	-	1.6	4.5	2.6
Conn Yankee	5.5	-	-	5.5	-
Consumers Pwr Co	1.7	-	-	1.7	-
ConEdison of NY	2.5	-	-	2.6	0.0
Dairyland Pwr	2.8	-	-	3.1	0.0
Detroit Edison	4.8	-	5.6	0.0	0.0
Duke Pwr	2.0	-	0.3	2.6	-
Dugesne Lt	1.8	-	0.5	2.7	-
Florida Pwr	2.6	-	-	2.6	-
Florida Pwr & Lt	6.0	-	0.0	6.8	-
Georgia Pwr	2.6	-	1.0	3.9	-
Gulf States	3.8	-	3.7	4.1	-
GPU Nucl	1.9	-	-	1.9	2.1

(CONTINUED)

Percent of Inspections Detecting a Serious Violation  
By Utility and Period (1981-1989 only)

Utility Name	Serious Violation Detection Rate (pct)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Houston Lt & Pwr	2.0	-	2.1	0.0	-
Illinois Fwr	6.1	-	6.6	3.7	-
Indiana & Mich	6.2	-	-	6.2	-
Iowa Elec Lt	2.0	-	-	2.0	-
Long Island Lt	0.0	-	0.0	-	-
Louisiana Pwr	1.5	-	0.6	2.6	-
Maine Yankee	8.6	-	-	8.6	-
Nebr Public Pwr	5.4	-	-	5.4	-
New York Pwr	2.0	-	-	2.0	-
Niagara Mohawk	1.1	-	0.0	2.2	-
Northeast Nucl	1.9	-	0.0	2.4	-
Northern States	2.1	-	-	2.1	-
Omaha Public Pwr	4.1	-	-	4.1	-
Pacif Gas & Elec	0.3	-	0.6	0.0	0.0
Penn Pwr & Lt	0.7	-	1.6	0.0	-
Phila Elec	4.0	-	1.6	5.2	-
Portland Gen	4.6	-	-	4.6	-
Publ Serv of Col	2.3	-	-	2.3	-
Publ Serv of NH	0.0	-	0.0	-	-
Publ Serv Elec	3.6	-	0.9	4.7	-
Roch Gas & Elec	0.5	-	-	0.5	-

(CONTINUED)

Percent of Inspections Detecting a Serious Violation  
By Utility and Period (1981-1989 only)

Utility Name	Serious Violation Detection Rate (pct)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Sacra Util Dist	5.8	-	-	5.8	-
So Calif Edison	3.3	-	4.5	3.0	-
So Carolina Elec	2.5	-	0.0	4.4	-
Sys Ener Resourc	1.6	-	2.0	0.7	-
Tenn Valley Auth	4.0	-	1.3	5.5	-
Texas Util Elec	2.2	-	2.2	-	-
Toledo Edison	8.9	-	-	8.9	-
Union Elec	3.5	-	0.8	6.9	-
Vermont Yankee	2.5	-	-	2.5	-
Virginia Elec	3.2	-	-	3.2	-
Wash Publ Pwr	4.0	-	4.1	3.8	-
Wisc Elec Pwr	2.8	-	-	2.8	-
Wisc Publ Serv	1.2	-	-	1.2	-
Wolf Creek Nucl	2.6	-	1.7	3.7	-
Yankee Atomic	1.9	-	-	1.9	-

Number of Civil Penalties Proposed by NRC  
By Utility and Period

	Number of Penalties Proposed by NRC				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
United States	629	0	86	531	12
Alabama Pwr Co	7	-	0	7	-
Arizona Pub Serv	13	0	4	9	-
Arkansas Pwr	17	-	0	17	-
Balti Gas & Elec	12	-	0	12	-
Boston Edison	10	-	-	10	-
Carolina Pwr	26	0	1	25	-
Cleveland Elec	2	0	1	1	-
Commonwealth Eds	83	0	17	62	4
Conn Yankee	3	-	-	3	-
Consumers Pwr Co	9	-	-	9	-
ConEdison of NY	9	-	-	8	1
Dairyland Pwr	3	-	-	3	0
Detroit Edison	8	-	6	2	0
Duke Pwr	45	0	4	41	-
Dugesne Lt	2	-	0	2	-
Florida Pwr	9	-	0	9	-
Florida Pwr & Lt	31	0	0	31	-
Georgia Pwr	19	-	0	19	-
Gulf States	1	0	1	0	-

(CONTINUED)

Note: A penalty asserted against a series of reactors operated by one utility is separately counted for each reactor affected.



Number of Civil Penalties Proposed by NRC  
By Utility and Period

Utility Name	Number of Penalties Proposed by NRC				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
GPU Nucl	18	-	0	12	6
Houston Lt & Pwr	5	0	4	1	-
Illinois Pwr	5	0	3	2	-
Indiana & Mich	11	-	1	10	-
Iowa Elec Lt	4	-	0	4	-
Long Island Lt	1	-	1	-	-
Louisiana Pwr	5	-	2	3	-
Maine Yankee	4	-	-	4	-
Nebr Public Pwr	6	-	-	6	-
New York Pwr	11	-	0	11	-
Niagara Mohawk	10	-	2	8	-
Northeast Nucl	9	-	0	9	-
Northern States	7	-	-	7	-
Omaha Public Pwr	8	-	-	8	-
Pacif Gas & Elec	5	-	2	2	1
Penn Pwr & Lt	6	-	3	3	-
Phila Elec	18	-	2	16	0
Portland Gen	11	-	0	11	-
Publ Serv of Col	3	-	0	3	0
Publ Serv of NH	1	0	1	-	-

(CONTINUED)

Note: A penalty asserted against a series of reactors operated by one utility is separately counted for each reactor affected.

Number of Civil Penalties Proposed by NRC  
By Utility and Period

	Number of Penalties Proposed by NRC				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
Publ Serv Elec	14	-	2	12	-
Roch Gas & Elec	3	-	-	3	-
Sacra Util Dist	6	-	0	6	0
So Calif Edison	12	-	3	9	-
So Carolina Elec	5	-	0	5	-
Sys Ener Resourc	4	-	4	0	-
Tenn Valley Auth	57	-	5	52	-
Texas Util Elec	9	-	9	-	-
Toledo Edison	7	-	0	7	-
Union Elec	3	0	1	2	-
Vermont Yankee	4	-	-	4	-
Virginia Elec	32	-	2	30	-
Wash Publ Pwr	3	0	1	2	-
Wisc Elec Pwr	3	-	-	3	-
Wisc Publ Serv	2	-	-	2	-
Wolf Creek Nucl	7	0	4	3	-
Yankee Atomic	1	-	-	1	-

Note: A penalty asserted against a series of reactors operated by one utility is separately counted for each reactor affected.

Total Dollars in Civil Penalties Proposed by NRC  
By Utility and Period

	Proposed Penalty (thousands of dollars)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
United States	\$33,867	\$0	\$4,909	\$28,437	\$522
Alabama Pwr Co	\$640	-	\$0	\$640	-
Arizona Pub Serv	\$830	\$0	\$180	\$650	-
Arkansas Pwr	\$652	-	\$0	\$652	-
Balti Gas & Elec	\$656	-	\$0	\$656	-
Boston Edison	\$766	-	-	\$766	-
Carolina Pwr	\$2,035	\$0	\$7	\$2,028	-
Cleveland Elec	\$63	\$0	\$25	\$38	-
Commonwealth Eds	\$2,801	\$0	\$535	\$2,151	\$115
Conn Yankee	\$158	-	-	\$158	-
Consumers Pwr Co	\$990	-	-	\$990	-
ConEdison of NY	\$636	-	-	\$624	\$12
Dairyland Pwr	\$103	-	-	\$103	\$0
Detroit Edison	\$875	-	\$625	\$250	\$0
Duke Pwr	\$1,012	\$0	\$109	\$903	-
Duquesne Lt	\$55	-	\$0	\$55	-
Florida Pwr	\$630	-	\$0	\$630	-
Florida Pwr & Lt	\$1,645	\$0	\$0	\$1,645	-
Georgia Pwr	\$679	-	\$0	\$679	-
Gulf States	\$65	\$0	\$65	\$0	-
GPU Nucl	\$1,026	-	\$0	\$638	\$388

(CONTINUED)

Total Dollars in Civil Penalties Proposed by NRC  
By Utility and Period

	Proposed Penalty (thousands of dollars)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
Houston Lt & Pwr	\$275	\$0	\$225	\$50	-
Illinois Pwr	\$365	\$0	\$215	\$150	-
Indiana & Mich	\$415	-	\$10	\$405	-
Iowa Elec Lt	\$135	-	\$0	\$135	-
Long Island Lt	\$40	-	\$40	-	-
Louisiana Pwr	\$300	-	\$150	\$150	-
Maine Yankee	\$235	-	-	\$235	-
Nebr Public Pwr	\$600	-	-	\$600	-
New York Pwr	\$511	-	\$0	\$511	-
Niagara Mohawk	\$766	-	\$190	\$576	-
Northeast Nucl	\$177	-	\$0	\$177	-
Northern States	\$143	-	-	\$143	-
Omaha Public Pwr	\$528	-	-	\$528	-
Pacif Gas & Elec	\$183	-	\$100	\$75	\$8
Penn Pwr & Lt	\$235	-	\$148	\$88	-
Phila Elec	\$1,960	-	\$75	\$1,885	\$0
Portland Gen	\$854	-	\$0	\$854	-
Publ Serv of Col	\$148	-	\$0	\$148	\$0
Publ Serv of NH	\$50	\$0	\$50	-	-
Publ Serv Elec	\$1,213	-	\$40	\$1,173	-
Roch Gas & Elec	\$91	-	-	\$91	-

(CONTINUED)

Total Dollars in Civil Penalties Proposed by NRC  
By Utility and Period

Utility Name	Proposed Penalty (thousands of dollars)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Sacra Util Dist	\$695	-	\$0	\$695	\$0
So Calif Edison	\$1,125	-	\$410	\$715	-
So Carolina Elec	\$238	-	\$0	\$238	-
Sys Ener Resourc	\$677	-	\$677	\$0	-
Tenn Valley Auth	\$1,687	-	\$233	\$1,454	-
Texas Util Elec	\$480	-	\$480	-	-
Toledo Edison	\$1,258	-	\$0	\$1,258	-
Union Elec	\$100	\$0	\$25	\$75	-
Vermont Yankee	\$134	-	-	\$134	-
Virginia Elec	\$1,215	-	\$32	\$1,183	-
Wash Publ Pwr	\$160	\$0	\$60	\$100	-
Wisc Elec Pwr	\$75	-	-	\$75	-
Wis: Publ Serv	\$70	-	-	\$70	-
Wolf Creek Nucl	\$394	\$0	\$204	\$190	-
Yankee Atomic	\$25	-	-	\$25	-



Total Dollars in Civil Penalties Proposed by NRC  
(constant 1990 dollars)  
By Utility and Period

	Proposed Penalty (constant thous of \$'s)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
United States	\$42,320	\$0	\$6,203	\$35,362	\$755
Alabama Pwr Co	\$740	-	\$0	\$740	-
Arizona Pub Serv	\$935	\$0	\$225	\$710	-
Arkansas Pwr	\$766	-	\$0	\$766	-
Balti Gas & Elec	\$763	-	\$0	\$763	-
Boston Edison	\$1,086	-	-	\$1,086	-
Carolina Pwr	\$2,578	\$0	\$17	\$2,561	-
Cleveland Elec	\$68	\$0	\$29	\$40	-
Commonwealth Eds	\$3,527	\$0	\$648	\$2,739	\$140
Conn Yankee	\$210	-	-	\$210	-
Consumers Pwr Co	\$1,453	-	-	\$1,453	-
ConEdison of NY	\$899	-	-	\$873	\$26
Dairyland Pwr	\$137	-	-	\$137	\$0
Detroit Edison	\$1,023	-	\$746	\$276	\$0
Duke Pwr	\$1,233	\$0	\$135	\$1,097	-
Dugesne Lt	\$70	-	\$0	\$70	-
Florida Pwr	\$733	-	\$0	\$733	-
Florida Pwr & Lt	\$1,978	\$0	\$0	\$1,978	-
Georgia Pwr	\$850	-	\$0	\$850	-
Gulf States	\$78	\$0	\$78	\$0	-
GPU Nucl	\$1,414	-	\$0	\$842	\$572

(CONTINUED)

Total Dollars in Civil Penalties Proposed by NRC  
(constant 1990 dollars)  
By Utility and Period

Utility Name	Proposed Penalty (constant thous of \$'s)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Houston Lt & Pwr	\$358	\$0	\$302	\$55	-
Illinois Pwr	\$433	\$0	\$271	\$162	-
Indiana & Mich	\$528	-	\$20	\$508	-
Iowa Elec Lt	\$168	-	\$0	\$168	-
Long Island Lt	\$54	-	\$54	-	-
Louisiana Pwr	\$358	-	\$191	\$168	-
Maine Yankee	\$290	-	-	\$290	-
Nebr Public Pwr	\$766	-	-	\$766	-
New York Pwr	\$652	-	\$0	\$652	-
Niagara Mohawk	\$1,063	-	\$253	\$809	-
Northeast Nucl	\$233	-	\$0	\$233	-
Northern States	\$172	-	-	\$172	-
Omaha Public Pwr	\$604	-	-	\$604	-
Pacif Gas & Elec	\$218	-	\$123	\$79	\$16
Penn Pwr & Lt	\$300	-	\$191	\$109	-
Phila Elec	\$2,299	-	\$85	\$2,214	\$0
Portland Gen	\$1,011	-	\$0	\$1,011	-
Publ Serv of Col	\$186	-	\$0	\$186	\$0
Publ Serv of NH	\$53	\$0	\$53	-	-
Publ Serv Elec	\$1,617	-	\$57	\$1,560	-
Roch Gas & Elec	\$142	-	-	\$142	-

(CONTINUED)

Total Dollars in Civil Penalties Proposed by NRC  
 (constant 1990 dollars)  
 By Utility and Period

Utility Name	Proposed Penalty (constant thous of \$'s)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Sacra Util Dist	\$860	-	\$0	\$860	\$0
So Calif Edison	\$1,430	-	\$524	\$905	-
So Carolina Elec	\$275	-	\$0	\$275	-
Sys Ener Resourc	\$854	-	\$854	\$0	-
Tenn Valley Auth	\$2,122	-	\$306	\$1,816	-
Texas Util Elec	\$583	-	\$583	-	-
Toledo Edison	\$1,518	-	\$0	\$1,518	-
Union Elec	\$119	\$0	\$31	\$87	-
Vermont Yankee	\$174	-	-	\$174	-
Virginia Elec	\$1,440	-	\$73	\$1,367	-
Wash Publ Pwr	\$207	\$0	\$94	\$112	-
Wisc Elec Pwr	\$88	-	-	\$88	-
Wisc Publ Serv	\$99	-	-	\$99	-
Wolf Creek Nucl	\$477	\$0	\$258	\$219	-
Yankee Atomic	\$29	-	-	\$29	-

Average Dollars Per Proposed Civil Penalty  
By Utility and Period

Utility Name	Average Penalty (dollars)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
United States	\$53,843	-	\$57,079	\$53,553	\$43,472
Alabama Pwr Co	\$91,429	-	-	\$91,429	-
Arizona Pub Serv	\$63,846	-	\$45,000	\$72,222	-
Arkansas Pwr	\$38,324	-	-	\$38,324	-
Balti Gas & Elec	\$54,667	-	-	\$54,667	-
Boston Edison	\$76,600	-	-	\$76,600	-
Carolina Pwr	\$78,269	-	\$7,000	\$81,120	-
Cleveland Elec	\$31,250	-	\$25,000	\$37,500	-
Commonwealth Eds	\$33,741	-	\$31,471	\$34,691	\$28,667
Conn Yankee	\$52,500	-	-	\$52,500	-
Consumers Pwr Co	\$109,944	-	-	\$109,944	-
ConEdison of NY	\$70,611	-	-	\$78,000	\$11,500
Dairyland Pwr	\$34,333	-	-	\$34,333	-
Detroit Edison	\$109,375	-	\$104,167	\$125,000	-
Duke Pwr	\$22,489	-	\$27,250	\$22,024	-
Duquesne Lt	\$27,500	-	-	\$27,500	-
Florida Pwr	\$70,000	-	-	\$70,000	-
Florida Pwr & Lt	\$53,065	-	-	\$53,065	-
Georgia Pwr	\$35,737	-	-	\$35,737	-
Gulf States	\$65,000	-	\$65,000	-	-
GPU Nucl	\$57,000	-	-	\$53,167	\$64,667

(CONTINUED)

Average Dollars Per Proposed Civil Penalty  
By Utility and Period

Utility Name	Average Penalty (dollars)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Houston Lt & Pwr	\$55,000	-	\$56,250	\$50,000	-
Illinois Pwr	\$73,000	-	\$71,667	\$75,000	-
Indiana & Mich	\$37,727	-	\$10,000	\$40,500	-
Iowa Elec Lt	\$33,750	-	-	\$33,750	-
Long Island Lt	\$40,000	-	\$40,000	-	-
Louisiana Pwr	\$60,000	-	\$75,000	\$50,000	-
Maine Yankee	\$58,750	-	-	\$58,750	-
Nebr Public Pwr	\$100,000	-	-	\$100,000	-
New York Pwr	\$46,455	-	-	\$46,455	-
Niagara Mohawk	\$76,550	-	\$95,000	\$71,938	-
Northeast Nucl	\$19,611	-	-	\$19,611	-
Northern States	\$20,357	-	-	\$20,357	-
Omaha Public Pwr	\$65,938	-	-	\$65,938	-
Pacif Gas & Elec	\$36,500	-	\$50,000	\$37,500	\$7,500
Penn Pwr & Lt	\$39,167	-	\$49,167	\$29,167	-
Phila Elec	\$108,889	-	\$37,500	\$117,813	-
Portland Gen	\$77,591	-	-	\$77,591	-
Publ Serv of Col	\$49,333	-	-	\$49,333	-
Publ Serv of NH	\$50,000	-	\$50,000	-	-
Publ Serv Elec	\$86,643	-	\$20,000	\$97,750	-
Roch Gas & Elec	\$30,333	-	-	\$30,333	-

(CONTINUED)



Average Dollars Per Proposed Civil Penalty  
By Utility and Period

Utility Name	Average Penalty (dollars)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Sacra Util Dist	\$115,833	-	-	\$115,833	-
So Calif Edison	\$93,750	-	\$136,667	\$79,444	-
So Carolina Elec	\$47,500	-	-	\$47,500	-
Sys Ener Resourc	\$169,250	-	\$169,250	-	-
Tenn Valley Auth	\$29,599	-	\$46,571	\$27,967	-
Texas Util Elec	\$53,333	-	\$53,333	-	-
Toledo Edison	\$179,714	-	-	\$179,714	-
Union Elec	\$33,333	-	\$25,000	\$37,500	-
Vermont Yankee	\$33,500	-	-	\$33,500	-
Virginia Elec	\$37,966	-	\$15,950	\$39,433	-
Wash Publ Pwr	\$53,167	-	\$59,500	\$50,000	-
Wisc Elec Pwr	\$25,000	-	-	\$25,000	-
Wisc Publ Serv	\$35,000	-	-	\$35,000	-
Wolf Creek Nucl	\$56,286	-	\$51,000	\$63,333	-
Yankee Atomic	\$25,000	-	-	\$25,000	-

Average Dollars Per Proposed Civil Penalty  
(constant 1990 dollars)  
By Utility and Period

	Average Penalty (constant dollars)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
United States	\$67,281	-	\$72,128	\$66,596	\$62,876
Alabama Pwr Co	\$105,695	-	-	\$105,695	-
Arizona Pub Serv	\$71,935	-	\$56,335	\$78,869	-
Arkansas Pwr	\$45,086	-	-	\$45,086	-
Balti Gas & Elec	\$63,559	-	-	\$63,559	-
Boston Edison	\$108,632	-	-	\$108,632	-
Carolina Pwr	\$99,154	-	\$17,006	\$102,440	-
Cleveland Elec	\$34,145	-	\$28,763	\$39,526	-
Commonwealth Eds	\$42,492	-	\$38,090	\$44,181	\$35,014
Conn Yankee	\$69,946	-	-	\$59,946	-
Consumers Pwr Co	\$161,472	-	-	\$161,472	-
ConEdison of NY	\$99,938	-	-	\$109,128	\$26,416
Dairyland Pwr	\$45,607	-	-	\$45,607	-
Detroit Edison	\$127,819	-	\$124,391	\$138,102	-
Duke Pwr	\$27,397	-	\$33,870	\$26,766	-
Duquesne Lt	\$34,874	-	-	\$34,874	-
Florida Pwr	\$81,490	-	-	\$81,490	-
Florida Pwr & Lt	\$63,814	-	-	\$63,814	-
Georgia Pwr	\$44,752	-	-	\$44,752	-
Gulf States	\$77,514	-	\$77,514	-	-
GPU Nucl	\$78,575	-	-	\$70,208	\$95,311

(CONTINUED)

Average Dollars Per Proposed Civil Penalty  
(constant 1990 dollars)  
By Utility and Period

Utility Name	Average Penalty (constant dollars)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Houston Lt & Pwr	\$71,535	-	\$75,608	\$55,241	-
Illinois Pwr	\$86,550	-	\$90,278	\$80,957	-
Indiana & Mich	\$47,987	-	\$20,025	\$50,783	-
Iowa Elec Lt	\$42,063	-	-	\$42,063	-
Long Island Lt	\$54,120	-	\$54,120	-	-
Louisiana Pwr	\$71,632	-	\$95,296	\$55,856	-
Maine Yankee	\$72,478	-	-	\$72,478	-
Nebr Public Pwr	\$127,743	-	-	\$127,743	-
New York Pwr	\$59,300	-	-	\$59,300	-
Niagara Mohawk	\$106,262	-	\$126,701	\$101,152	-
Northeast Nucl	\$25,942	-	-	\$25,942	-
Northern States	\$24,590	-	-	\$24,590	-
Omaha Public Pwr	\$75,448	-	-	\$75,448	-
Pacif Gas & Elec	\$43,550	-	\$61,261	\$39,526	\$16,176
Penn Pwr & Lt	\$49,946	-	\$63,614	\$36,278	-
Phila Elec	\$127,714	-	\$42,538	\$138,361	-
Portland Gen	\$91,912	-	-	\$91,912	-
Publ Serv of Col	\$61,882	-	-	\$61,882	-
Publ Serv of NH	\$52,702	-	\$52,702	-	-
Publ Serv Elec	\$115,509	-	\$28,694	\$129,978	-
Roch Gas & Elec	\$47,204	-	-	\$47,204	-

(CONTINUED)

Average Dollars Per Proposed Civil Penalty  
(constant 1990 dollars)  
By Utility and Period

Utility Name	Average Penalty (constant dollars)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Sacra Util Dist	\$143,260	-	-	\$143,260	-
So Calif Edison	\$119,127	-	\$174,815	\$100,565	-
So Carolina Elec	\$55,078	-	-	\$55,078	-
Sys Ener Resourc	\$213,612	-	\$213,612	-	-
Tenn Valley Auth	\$37,222	-	\$61,205	\$34,916	-
Texas Util Elec	\$64,819	-	\$64,819	-	-
Toledo Edison	\$216,910	-	-	\$216,910	-
Union Elec	\$39,596	-	\$31,449	\$43,670	-
Vermont Yankee	\$43,422	-	-	\$43,422	-
Virginia Elec	\$45,006	-	\$36,637	\$45,564	-
Wash Publ Pwr	\$68,901	-	\$94,377	\$56,164	-
Wisc Elec Pwr	\$29,463	-	-	\$29,463	-
Wisc Publ Serv	\$49,380	-	-	\$49,380	-
Wolf Creek Nucl	\$68,085	-	\$64,428	\$72,960	-
Yankee Atomic	\$28,763	-	-	\$28,763	-

Annual Average Number of Civil Penalties Per Plant  
By Utility and Period

Utility Name	Penalty Rate (number)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
United States	0.3	0.0	0.1	0.5	0.1
Alabama Pwr Co	0.2	-	0.0	0.4	-
Arizona Pub Serv	0.3	0.0	0.1	1.1	-
Arkansas Pwr	0.6	-	0.0	0.7	-
Balti Gas & Elec	0.4	-	0.0	0.4	-
Boston Edison	0.7	-	-	0.7	-
Carolina Pwr	0.4	0.0	0.1	0.6	-
Cleveland Elec	0.1	0.0	0.0	0.6	-
Commonwealth Eds	0.4	0.0	0.3	0.6	0.4
Conn Yankee	0.2	-	-	0.2	-
Consumers Pwr Co	0.3	-	-	0.3	-
ConEdison of NY	0.3	-	-	0.5	0.1
Dairyland Pwr	0.2	-	-	0.2	0.0
Detroit Edison	0.3	-	0.5	1.3	0.0
Duke Pwr	0.4	0.0	0.1	0.6	-
Duquesne Lt	0.1	-	0.0	0.1	-
Florida Pwr	0.6	-	0.0	0.7	-
Florida Pwr & Lt	0.5	0.0	0.0	0.6	-
Georgia Pwr	0.3	-	0.0	0.7	-
Gulf States	0.1	0.0	0.1	0.0	-

(CONTINUED)

Note: A penalty asserted against a series of reactors operated by one utility is separately counted for each reactor affected.



Annual Average Number of Civil Penalties Per Plant  
By Utility and Period

	Penalty Rate (number)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
GPU Nucl	0.4	-	0.0	0.4	0.6
Houston Lt & Pwr	0.2	0.0	0.2	0.9	-
Illinois Pwr	0.3	0.0	0.3	1.2	-
Indiana & Mich	0.4	-	0.2	0.4	-
Iowa Elec Lt	0.3	-	0.0	0.3	-
Long Island Lt	0.1	-	0.1	-	-
Louisiana Pwr	0.3	-	0.2	0.8	-
Maine Yankee	0.3	-	-	0.3	-
Nebr Public Pwr	0.4	-	-	0.4	-
New York Pwr	0.4	-	0.0	0.4	-
Niagara Mohawk	0.3	-	0.2	0.5	-
Northeast Nucl	0.2	-	0.0	0.3	-
Northern States	0.2	-	-	0.2	-
Omaha Public Pwr	0.5	-	-	0.5	-
Pacif Gas & Elec	0.1	-	0.1	0.2	0.1
Penn Pwr & Lt	0.2	-	0.2	0.3	-
Phila Elec	0.2	-	0.1	0.5	0.0
Portland Gen	0.8	-	0.0	0.8	-
Publ Serv of Col	0.2	-	0.0	0.2	0.0
Publ Serv of NH	0.1	0.0	0.1	-	-

(CONTINUED)

Note: A penalty asserted against a series of reactors operated by one utility is separately counted for each reactor affected.

Annual Average Number of Civil Penalties Per Plant  
By Utility and Period

Utility Name	Penalty Rate (number)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Publ Serv Elec	0.3	-	0.1	0.5	-
Roch Gas & Elec	0.2	-	-	0.2	-
Sacra Util Dist	0.4	-	0.0	0.4	0.0
So Calif Edison	0.3	-	0.2	0.3	-
So Carolina Elec	0.3	-	0.0	0.9	-
Sys Ener Resourc	0.1	-	0.2	0.0	-
Tenn Valley Auth	0.4	-	0.1	0.9	-
Texas Util Elec	0.3	-	0.3	-	-
Toledo Edison	0.5	-	0.0	0.6	-
Union Elec	0.2	0.0	0.1	0.4	-
Vermont Yankee	0.3	-	-	0.3	-
Virginia Elec	0.5	-	0.2	0.6	-
Wash Publ Pwr	0.1	0.0	0.0	0.4	-
Wisc Elec Pwr	0.1	-	-	0.1	-
Wisc Publ Serv	0.1	-	-	0.1	-
Wolf Creek Nucl	0.5	0.0	0.5	0.8	-
Yankee Atomic	0.1	-	-	0.1	-

Note: A penalty asserted against a series of reactors operated by one utility is separately counted for each reactor affected.

Annual Average Dollars of Proposed Civil Penalties Per Plant  
By Utility and Period

	Penalty Rate (dollars)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
United States	\$17,803	\$0	\$7,107	\$25,906	\$6,461
Alabama Pwr Co	\$21,869	-	\$0	\$32,364	-
Arizona Pub Serv	\$18,907	\$0	\$5,657	\$80,342	-
Arkansas Pwr	\$22,262	-	\$0	\$27,108	-
Balti Gas & Elec	\$22,415	-	\$0	\$24,596	-
Boston Edison	\$52,348	-	-	\$52,348	-
Carolina Pwr	\$34,768	\$0	\$566	\$46,995	-
Cleveland Elec	\$2,136	\$0	\$1,094	\$21,387	-
Commonwealth Eds	\$14,722	\$0	\$8,125	\$19,568	\$10,615
Conn Yankee	\$10,763	-	-	\$10,763	-
Consumers Pwr Co	\$33,811	-	-	\$33,811	-
ConEdison of NY	\$21,715	-	-	\$42,644	\$786
Dairyland Pwr	\$7,039	-	-	\$8,356	\$0
Detroit Edison	\$29,898	-	\$47,855	\$158,973	\$0
Duke Pwr	\$9,880	\$0	\$2,943	\$14,059	-
Duquesne Lt	\$1,879	-	\$0	\$3,757	-
Florida Pwr	\$43,054	-	\$0	\$50,650	-
Florida Pwr & Lt	\$28,105	\$0	\$0	\$34,298	-
Georgie Pwr	\$11,601	-	\$0	\$26,055	-
Gulf States	\$4,442	\$0	\$6,994	\$0	-
GPU Nucl	\$23,372	-	\$0	\$21,126	\$37,318

(CONTINUED)

Annual Average Dollars of Proposed Civil Penalties Per Plant  
By Utility and Period

Utility Name	Penalty Rate (dollars)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Houston Lt & Pwr	\$9,397	\$0	\$8,561	\$43,349	-
Illinois Pwr	\$24,944	\$0	\$18,203	\$86,356	-
Indiana & Mich	\$14,180	-	\$2,409	\$16,126	-
Iowa Elec Lt	\$9,226	-	\$0	\$9,280	-
Long Island Lt	\$2,734	-	\$2,734	-	-
Louisiana Pwr	\$20,502	-	\$13,981	\$38,421	-
Maine Yankee	\$16,060	-	-	\$16,060	-
Nebr Public Pwr	\$41,004	-	-	\$41,004	-
New York Pwr	\$17,461	-	\$0	\$18,902	-
Niagara Mohawk	\$26,157	-	\$14,403	\$35,803	-
Northeast Nucl	\$4,021	-	\$0	\$5,584	-
Northern States	\$3,246	-	-	\$3,246	-
Omaha Public Pwr	\$36,049	-	-	\$36,049	-
Pacif Gas & Elec	\$4,157	-	\$4,643	\$8,129	\$571
Penn Pwr & Lt	\$8,030	-	\$7,952	\$8,164	-
Phila Elec	\$26,789	-	\$2,916	\$57,446	\$0
Portland Gen	\$58,328	-	\$0	\$64,413	-
Publ Serv of Col	\$10,114	-	\$0	\$11,668	\$0
Publ Serv of NH	\$3,417	\$0	\$3,806	-	-
Publ Serv Elec	\$27,632	-	\$1,883	\$51,771	-
Roch Gas & Elec	\$6,219	-	-	\$6,219	-

(CONTINUED)

Annual Average Dollars of Proposed Civil Penalties Per Plant  
By Utility and Period

	Penalty Rate (dollars)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
Sacra Util Dist	\$47,496	-	\$0	\$49,152	\$0
So Calif Edison	\$25,627	-	\$22,971	\$27,447	-
So Carolina Elec	\$16,231	-	\$0	\$42,163	-
Sys Ener Resourc	\$23,133	-	\$26,941	\$0	-
Tenn Valley Auth	\$12,811	-	\$3,115	\$25,544	-
Texas Util Elec	\$16,401	-	\$16,401	-	-
Toledo Edison	\$85,971	-	\$0	\$113,797	-
Union Elec	\$6,834	\$0	\$2,868	\$16,065	-
Vermont Yankee	\$9,157	-	-	\$9,157	-
Virginia Elec	\$20,756	-	\$3,401	\$24,068	-
Wash Publ Pwr	\$3,633	\$0	\$1,697	\$21,346	-
Wisc Elec Pwr	\$2,563	-	-	\$2,563	-
Wisc Publ Serv	\$4,784	-	-	\$4,784	-
Wolf Creek Nucl	\$26,926	\$0	\$24,453	\$47,960	-
Yankee Atomic	\$1,708	-	-	\$1,708	-



Annual Average Dollars of Proposed Civil Penalties Per Plant  
(constant 1990 dollars)  
By Utility and Period

Utility Name	Penalty Rate (constant dollars)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
United States	\$22,247	\$0	\$8,981	\$32,215	\$9,344
Alabama Pwr Co	\$25,281	-	\$0	\$37,414	-
Arizona Pub Serv	\$21,303	\$0	\$7,083	\$87,736	-
Arkansas Pwr	\$26,190	-	\$0	\$31,891	-
Balti Gas & Elec	\$26,062	-	\$0	\$28,597	-
Boston Edison	\$74,238	-	-	\$74,238	-
Carolina Pwr	\$44,045	\$0	\$1,374	\$59,346	-
Cleveland Elec	\$2,333	\$0	\$1,259	\$22,542	-
Commonwealth Eds	\$18,540	\$0	\$9,833	\$24,921	\$12,965
Conn Yankee	\$14,340	-	-	\$14,340	-
Consumers Pwr Co	\$49,657	-	-	\$49,657	-
ConEdison of NY	\$30,734	-	-	\$59,662	\$1,805
Dairyland Pwr	\$9,350	-	-	\$11,100	\$0
Detroit Edison	\$34,940	-	\$57,146	\$175,636	\$0
Duke Pwr	\$12,036	\$0	\$3,658	\$17,085	-
Duquesne Lt	\$2,383	-	\$0	\$4,764	-
Florida Pwr	\$50,121	-	\$0	\$58,964	-
Florida Pwr & Lt	\$33,798	\$0	\$0	\$41,246	-
Georgia Pwr	\$14,527	-	\$0	\$32,628	-
Gulf States	\$5,297	\$0	\$8,341	\$0	-
GPU Nucl	\$32,219	-	\$0	\$27,897	\$55,001

(CONTINUED)

Annual Average Dollars of Proposed Civil Penalties Per Plant  
(constant 1990 dollars)  
By Utility and Period

Utility Name	Penalty Rate (constant dollars)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Houston Lt & Pwr	\$12,222	\$0	\$11,507	\$47,893	-
Illinois Pwr	\$29,574	\$0	\$22,930	\$93,215	-
Indiana & Mich	\$18,037	-	\$4,824	\$20,220	-
Iowa Elec Lt	\$11,498	-	\$0	\$11,565	-
Long Island Lt	\$3,699	-	\$3,699	-	-
Louisiana Pwr	\$24,476	-	\$17,765	\$42,921	-
Maine Yankee	\$19,812	-	-	\$19,812	-
Nebr Public Pwr	\$52,379	-	-	\$52,379	-
New York Pwr	\$22,289	-	\$0	\$24,128	-
Niagara Mohawk	\$36,309	-	\$19,209	\$50,343	-
Northeast Nucl	\$5,319	-	\$0	\$7,387	-
Northern States	\$3,921	-	-	\$3,921	-
Omaha Public Pwr	\$41,249	-	-	\$41,249	-
Pacif Gas & Elec	\$4,960	-	\$5,688	\$8,568	\$1,232
Penn Pwr & Lt	\$10,240	-	\$10,289	\$10,155	-
Phila Elec	\$31,420	-	\$3,308	\$67,465	\$0
Portland Gen	\$69,093	-	\$0	\$76,302	-
Publ Serv of Col	\$12,687	-	\$0	\$14,635	\$0
Publ Serv of NH	\$3,602	\$0	\$4,012	-	-
Publ Serv Elec	\$36,838	-	\$2,702	\$68,840	-
Roch Gas & Elec	\$9,678	-	-	\$9,678	-

(CONTINUED)

Annual Average Dollars of Proposed Civil Penalties Per Plant  
 (constant 1990 dollars)  
 By Utility and Period

Utility Name	Penalty Rate (constant dollars)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Sacra Util Dist	\$58,742	-	\$0	\$60,791	\$0
So Calif Edison	\$32,564	-	\$29,383	\$34,744	-
So Carolina Elec	\$18,820	-	\$0	\$48,889	-
Sys Ener Resourc	\$29,196	-	\$34,003	\$0	-
Tenn Valley Auth	\$16,110	-	\$4,093	\$31,891	-
Texas Util Elec	\$19,934	-	\$19,934	-	-
Toledo Edison	\$103,764	-	\$0	\$137,349	-
Union Elec	\$8,118	\$0	\$3,608	\$18,709	-
Vermont Yankee	\$11,870	-	-	\$11,870	-
Virginia Elec	\$24,606	-	\$7,813	\$27,810	-
Wash Publ Pwr	\$4,709	\$0	\$2,692	\$23,977	-
Wisc Elec Pwr	\$3,020	-	-	\$3,020	-
Wisc Publ Serv	\$6,749	-	-	\$6,749	-
Wolf Creek Nucl	\$32,570	\$0	\$30,891	\$55,250	-
Yankee Atomic	\$1,966	-	-	\$1,966	-

Percent of Inspections with a Civil Penalty Proposed by NRC  
By Utility and Period

Utility Name	Penalties as a Percent of Inspections				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
United States	1.3	0.0	0.5	1.6	2.2
Alabama Pwr Co	0.8	-	0.0	1.1	-
Arizona Pub Serv	1.3	0.0	0.6	2.9	-
Arkansas Pwr	2.0	-	0.0	2.3	-
Balti Gas & Elec	1.6	-	0.0	1.7	-
Boston Edison	2.2	-	-	2.2	-
Carolina Pwr	1.3	0.0	0.2	1.6	-
Cleveland Elec	0.4	0.0	0.2	2.9	-
Commonwealth Eds	1.6	0.0	0.9	2.0	2.4
Conn Yankee	0.9	-	-	0.9	-
Consumers Pwr Co	1.4	-	-	1.4	-
ConEdison of NY	1.9	-	-	2.0	1.4
Dairyland Pwr	1.2	-	-	1.2	0.0
Detroit Edison	2.0	-	1.7	5.1	0.0
Duke Pwr	1.3	-	0.4	1.8	-
Dugesne Lt	0.3	-	0.0	0.5	-
Florida Pwr	1.8	-	0.0	2.0	-
Florida Pwr & Lt	1.6	0.0	0.0	1.9	-
Georgia Pwr	1.0	-	0.0	1.9	-
Gulf States	0.3	0.0	0.4	0.0	-
GPU Nucl	1.6	-	0.0	1.4	3.4

(CONTINUED)

Percent of Inspections with a Civil Penalty Proposed by NRC  
By Utility and Period

	Penalties as a Percent of Inspections				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
Houston Lt & Pwr	0.6	0.0	0.5	2.2	-
Illinois Pwr	1.2	0.0	0.8	3.7	-
Indiana & Mich	1.4	-	1.3	1.4	-
Iowa Elec Lt	1.1	-	-	1.1	-
Long Island Lt	0.3	-	0.3	-	-
Louisiana Pwr	1.3	-	0.8	2.6	-
Maine Yankee	1.2	-	-	1.2	-
Nebr Public Pwr	1.6	-	-	1.6	-
New York Pwr	1.5	-	0.0	1.6	-
Niagara Mohawk	1.6	-	0.8	2.1	-
Northeast Nucl	0.9	-	0.0	1.1	-
Northern States	0.8	-	-	0.8	-
Omaha Public Pwr	2.0	-	-	2.0	-
Pacif Gas & Elec	0.6	-	0.4	0.7	1.2
Penn Pwr & Lt	0.9	-	0.7	1.2	-
Phila Elec	1.2	-	0.4	1.6	0.0
Portland Gen	2.4	-	0.0	2.5	-
Publ Serv of Col	0.8	-	0.0	0.9	-
Publ Serv of NH	0.4	0.0	0.4	-	-
Publ Serv Elec	1.2	-	0.4	1.8	-
Roch Gas & Elec	1.0	-	-	1.0	-

(CONTINUED)



Percent of Inspections with a Civil Penalty Proposed by NRC  
By Utility and Period

Utility Name	Penalties as a Percent of Inspections				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Sacra Util Dist	1.4	-	-	1.4	-
So Calif Edison	1.0	-	0.8	1.2	-
So Carolina Elec	1.1	-	0.0	2.7	-
Sys Ener Resourc	0.6	-	0.7	0.0	-
Tenn Valley Auth	1.3	-	0.3	2.1	-
Texas Util Elec	1.1	-	1.1	-	-
Toledo Edison	1.7	-	0.0	2.2	-
Union Elec	1.0	0.0	0.5	2.0	-
Vermont Yankee	1.2	-	-	1.2	-
Virginia Elec	1.5	-	0.6	1.6	-
Wash Publ Pwr	0.5	0.0	0.2	1.3	-
Wisc Elec Pwr	0.5	-	-	0.5	-
Wisc Publ Serv	0.7	-	-	0.7	-
Wolf Creek Nucl	1.8	0.0	1.6	2.2	-
Yankee Atomic	0.4	-	-	0.4	-

Percent of Violations with Civil Penalties Proposed  
By Utility and Period

	Penalized Violations (percent)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
United States	4.1	0.0	2.1	4.8	7.9
Alabama Pwr Co	3.2	-	0.0	3.9	-
Arizona Pub Serv	9.5	-	4.4	19.6	-
Arkansas Pwr	5.1	-	0.0	5.8	-
Balti Gas & Elec	4.7	-	0.0	4.8	-
Boston Edison	5.8	-	-	5.8	-
Carolina Pwr	3.9	-	0.8	4.7	-
Cleveland Elec	1.4	0.0	0.8	8.3	-
Commonwealth Eds	5.2	0.0	3.3	6.0	11.1
Conn Yankee	2.7	-	-	2.7	-
Consumers Pwr Co	3.9	-	-	3.9	-
ConEdison of NY	5.5	-	-	5.7	4.3
Dairyland Pwr	3.2	-	-	3.3	0.0
Detroit Edison	5.4	-	4.5	14.3	0.0
Duke Pwr	4.9	-	1.8	5.8	-
Dugesne Lt	0.9	-	0.0	1.4	-
Florida Pwr	3.7	-	0.0	3.8	-
Florida Pwr & Lt	4.6	-	0.0	5.1	-
Georgia Pwr	2.9	-	0.0	4.7	-
Gulf States	0.8	-	1.2	0.0	-

(CONTINUED)

Note: A penalty asserted against a series of reactors operated by one utility is separately counted for each reactor affected.

Percent of Violations with Civil Penalties Proposed  
By Utility and Period

	Penalized Violations (percent)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
GPU Nucl	4.9	-	0.0	4.2	9.4
Houston Lt & Pwr	3.4	-	2.9	10.0	-
Illinois Pwr	3.8	-	2.8	9.5	-
Indiana & Mich	3.4	-	3.8	3.3	-
Iowa Elec Lt	2.8	-	-	2.8	-
Long Island Lt	1.4	-	1.4	-	-
Louisiana Pwr	4.0	-	3.0	5.2	-
Maine Yankee	3.3	-	-	3.3	-
Nebr Public Pwr	3.7	-	-	3.7	-
New York Pwr	4.6	-	0.0	4.8	-
Niagara Mohawk	5.3	-	3.3	6.3	-
Northeast Nucl	4.2	-	0.0	5.0	-
Northern States	2.8	-	-	2.8	-
Omaha Public Pwr	4.9	-	-	4.9	-
Pacif Gas & Elec	3.5	-	3.2	3.4	4.8
Penn Pwr & Lt	4.1	-	3.1	6.3	-
Phila Elec	3.5	-	1.6	4.3	0.0
Portland Gen	9.4	-	0.0	10.2	-
Publ Serv of Col	1.7	-	0.0	1.8	-
Publ Serv of NH	1.5	-	1.5	-	-

(CONTINUED)

Note: A penalty asserted against a series of reactors operated by one utility is separately counted for each reactor affected.

Percent of Violations with Civil Penalties Proposed  
By Utility and Period

	Penalized Violations (percent)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
Utility Name					
Publ Serv Elec	3.9	-	1.4	5.6	-
Roch Gas & Elec	3.1	-	-	3.1	-
Sacra Util Dist	4.2	-	-	4.2	-
So Calif Edison	6.1	-	4.5	6.9	-
So Carolina Elec	3.9	-	0.0	8.1	-
Sys Ener Resourc	2.3	-	3.1	0.0	-
Tenn Valley Auth	3.8	-	0.9	5.4	-
Texas Util Elec	5.0	-	5.0	-	-
Toledo Edison	4.1	-	0.0	5.0	-
Union Elec	2.8	-	1.2	7.4	-
Vermont Yankee	3.6	-	-	3.6	-
Virginia Elec	5.0	-	3.9	5.1	-
Wash Publ Pwr	2.1	-	1.1	4.1	-
Wisc Elec Pwr	1.7	-	-	1.7	-
Wisc Publ Serv	2.2	-	-	2.2	-
Wolf Creek Nucl	4.7	-	4.9	4.4	-
Yankee Atomic	1.3	-	-	1.3	-

Note: A penalty asserted against a series of reactors operated by one utility is separately counted for each reactor affected.

Number of NRC Inspections  
By State and Period

	Number of Inspections				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
United States	49,900	87	16,831	32,441	541
Alabama	3,179	-	821	2,358	-
Arizona	1,025	6	704	315	-
Arkansas	858	-	112	746	-
California	2,435	-	878	1,474	83
Colorado	369	-	21	348	0
Connecticut	1,392	-	221	1,171	-
Florida	2,390	6	277	2,107	-
Georgia	1,933	-	926	1,007	-
Illinois	5,503	11	2,177	3,146	169
Iowa	354	-	0	354	-
Kansas	393	12	247	134	-
Louisiana	700	6	482	212	-
Maine	328	-	-	328	-
Maryland	753	-	59	694	-
Massachusetts	727	-	-	727	-
Michigan	1,842	-	437	1,395	10
Minnesota	909	-	-	909	-
Mississippi	700	-	557	143	-
Missouri	312	4	207	101	-
Nebraska	778	-	-	778	-

(CONTINUED)



Number of NRC Inspections  
By State and Period

	Number of Inspections				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
New Hampshire	256	2	254	-	-
New Jersey	1,611	-	531	1,080	-
New York	2,498	-	636	1,793	69
North Carolina	2,426	10	823	1,593	-
Ohio	957	21	577	359	-
Oregon	457	-	20	437	-
Pennsylvania	3,473	-	1,226	2,052	195
South Carolina	3,387	0	968	2,419	-
Tennessee	2,082	-	1,356	726	-
Texas	1,627	2	1,579	46	-
Vermont	347	-	-	347	-
Virginia	2,140	-	311	1,829	-
Washington	591	7	424	160	-
Wisconsin	1,168	-	-	1,153	15

NRC Inspection Weeks  
By State and Period

	Inspection Weeks (week = 40 hours)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
United States	86,113	32	29,758	55,088	1,235
Alabama	3,201	-	818	2,383	-
Arizona	1,585	1	1,160	424	-
Arkansas	1,275	-	180	1,095	-
California	4,488	-	1,302	3,114	72
Colorado	948	-	42	907	0
Connecticut	2,294	-	502	1,792	-
Florida	3,477	4	318	3,155	-
Georgia	2,743	-	1,488	1,256	-
Illinois	8,510	3	3,857	4,571	80
Iowa	822	-	0	822	-
Kansas	1,168	7	673	488	-
Louisiana	1,973	3	1,360	610	-
Maine	666	-	-	666	-
Maryland	948	-	55	893	-
Massachusetts	1,652	-	-	1,652	-
Michigan	3,998	-	1,158	2,835	5
Minnesota	1,415	-	-	1,415	-
Mississippi	974	-	566	409	-
Missouri	840	1	537	302	-
Nebraska	1,599	-	-	1,599	-

(CONTINUED)

NRC Inspection Weeks  
By State and Period

	Inspection Weeks (week = 40 hours)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
New Hampshire	717	0	716	-	-
New Jersey	2,909	-	928	1,981	-
New York	5,075	-	1,412	3,626	37
North Carolina	3,455	2	1,252	2,200	-
Ohio	2,320	9	1,019	1,293	-
Oregon	1,071	-	36	1,035	-
Pennsylvania	7,138	-	2,251	3,866	1,021
South Carolina	4,507	0	1,138	3,369	-
Tennessee	3,548	-	1,544	2,004	-
Texas	4,302	1	4,228	73	-
Vermont	674	-	-	674	-
Virginia	2,626	-	431	2,196	-
Washington	1,238	2	788	448	-
Wisconsin	1,951	-	-	1,933	18

Average Hours Per Inspection  
By State and Period

	Average Inspection Time (hours)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
United States	69	15	71	68	91
Alabama	40	-	40	40	-
Arizona	62	7	66	54	-
Arkansas	59	-	64	59	-
California	74	-	59	84	35
Colorado	103	-	79	104	-
Connecticut	66	-	91	61	-
Florida	58	24	46	60	-
Georgia	57	-	64	50	-
Illinois	62	9	71	58	19
Iowa	93	-	-	93	-
Kansas	119	24	109	146	-
Louisiana	113	19	113	115	-
Maine	81	-	-	81	-
Maryland	50	-	37	51	-
Massachusetts	91	-	-	91	-
Michigan	87	-	106	81	21
Minnesota	62	-	-	62	-
Mississippi	56	-	41	114	-
Missouri	108	11	104	120	-
Nebraska	82	-	-	82	-

(CONTINUED)

Average Hours Per Inspection  
By State and Period

	Average Inspection Time (hours)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
New Hampshire	112	7	113	-	-
New Jersey	72	-	70	73	-
New York	81	-	89	81	22
North Carolina	57	10	61	55	-
Ohio	97	16	71	144	-
Oregon	94	-	73	95	-
Pennsylvania	82	-	73	75	210
South Carolina	53	-	47	56	-
Tennessee	68	-	46	110	-
Texas	106	10	107	64	-
Vermont	78	-	-	78	-
Virginia	49	-	55	48	-
Washington	84	12	74	112	-
Wisconsin	67	-	-	67	47



Annual Average Number of Inspections Per Plant  
By State and Period

	Inspection Rate (number)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
United States	26	3	24	30	7
Alabama	31	-	20	38	-
Arizona	23	2	22	39	-
Arkansas	29	-	21	31	-
California	24	-	22	30	6
Colorado	25	-	11	27	0
Connecticut	24	-	18	25	-
Florida	33	3	27	35	-
Georgia	33	-	29	39	-
Illinois	27	2	28	28	16
Iowa	24	-	0	24	-
Kansas	27	5	30	34	-
Louisiana	24	3	24	30	-
Maine	22	-	-	22	-
Maryland	26	-	23	26	-
Massachusetts	25	-	-	25	-
Michigan	21	-	25	25	1
Minnesota	21	-	-	21	-
Mississippi	24	-	22	35	-
Missouri	21	3	24	22	-
Nebraska	27	-	-	27	-

(CONTINUED)

Annual Average Number of Inspections Per Plant  
By State and Period

	Inspection Rate (number)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
New Hampshire	17	1	19	-	-
New Jersey	28	-	25	29	-
New York	21	-	21	25	5
North Carolina	33	3	29	38	-
Ohio	22	5	22	28	-
Oregon	31	-	14	33	-
Pennsylvania	22	-	20	28	8
South Carolina	33	0	32	34	-
Tennessee	36	-	31	47	-
Texas	28	1	28	40	-
Vermont	24	-	-	24	-
Virginia	37	-	33	37	-
Washington	13	2	12	34	-
Wisconsin	20	-	-	21	7

Annual Average Inspection Weeks Per Plant  
By State and Period

	Inspection Rate (weeks)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
United States	45	1	43	50	15
Alabama	31	-	20	39	-
Arizona	36	0	36	52	-
Arkansas	44	-	34	46	-
California	44	-	33	63	5
Colorado	65	-	21	71	0
Connecticut	39	-	41	39	-
Florida	48	2	30	52	-
Georgia	47	-	46	48	-
Illinois	42	1	50	41	7
Iowa	56	-	0	57	-
Kansas	80	3	81	123	-
Louisiana	67	1	68	86	-
Maine	45	-	-	45	-
Maryland	32	-	21	33	-
Massachusetts	56	-	-	56	-
Michigan	46	-	67	51	0
Minnesota	32	-	-	32	-
Mississippi	33	-	23	99	-
Missouri	57	1	62	65	-

(CONTINUED)

Note: An inspection week = 40 hours.

Annual Average Inspection Weeks Per Plant  
By State and Period

	Inspection Rate (weeks)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
Nebraska	55	-	-	55	-
New Hampshire	49	0	55	-	-
New Jersey	50	-	44	53	-
New York	43	-	47	50	3
North Carolina	47	1	44	53	-
Ohio	53	2	39	101	-
Oregon	73	-	26	78	-
Pennsylvania	44	-	36	52	41
South Carolina	44	0	38	47	-
Tennessee	61	-	36	131	-
Texas	73	0	76	64	-
Vermont	46	-	-	46	-
Virginia	45	-	46	45	-
Washington	28	1	22	96	-
Wisconsin	33	-	-	34	8

Note: An inspection week = 40 hours.

Number of Violations Detected by NRC  
By State and Period

	Number of Violations Detected by NRC				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
United States	27,147	11	6,999	19,834	303
Alabama	1,937	-	370	1,567	-
Arizona	212	0	142	70	-
Arkansas	554	-	70	484	-
California	847	-	178	627	42
Colorado	312	-	28	284	0
Connecticut	611	-	63	548	-
Florida	1,606	0	100	1,506	-
Georgia	1,005	-	356	649	-
Illinois	3,128	6	1,177	1,889	56
Iowa	319	-	0	319	-
Kansas	236	0	129	107	-
Louisiana	402	0	241	161	-
Maine	226	-	-	226	-
Maryland	458	-	10	448	-
Massachusetts	461	-	-	461	-
Michigan	1,412	-	325	1,086	1
Minnesota	433	-	-	433	-
Mississippi	260	-	193	67	-
Missouri	174	0	139	35	-
Nebraska	564	-	-	564	-

(CONTINUED)



Number of Violations Detected by NRC  
By State and Period

	Number of Violations Detected by NRC				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
New Hampshire	109	0	109	-	-
New Jersey	946	-	230	716	-
New York	1,451	-	215	1,183	53
North Carolina	1,188	0	323	865	-
Ohio	662	5	342	315	-
Oregon	229	-	17	212	-
Pennsylvania	1,960	-	499	1,312	149
South Carolina	1,568	0	322	1,246	-
Tennessee	1,081	-	556	525	-
Texas	569	0	557	12	-
Vermont	197	-	-	197	-
Virginia	1,046	-	91	955	-
Washington	321	0	217	104	-
Wisconsin	663	-	-	661	2

Number of Serious Violations Detected by NRC  
By State and Period (1981-1989 only)

	Serious Violations Detected by NRC				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
United States	1,031	-	160	865	6
Alabama	109	-	2	107	-
Arizona	17	-	3	14	-
Arkansas	10	-	-	10	-
California	49	-	11	38	0
Colorado	6	-	-	6	0
Connecticut	23	-	0	23	-
Florida	90	-	0	90	-
Georgia	37	-	7	30	-
Illinois	135	-	39	93	3
Iowa	4	-	-	4	-
Kansas	8	-	3	5	-
Louisiana	15	-	8	7	-
Maine	18	-	-	18	-
Maryland	4	-	-	4	-
Massachusetts	19	-	-	19	-
Michigan	53	-	15	38	0
Minnesota	11	-	-	11	-
Mississippi	8	-	7	1	-
Missouri	8	-	1	7	-
Nebraska	27	-	-	27	-

(CONTINUED)

Number of Serious Violations Detected by NRC  
By State and Period (1981-1989 only)

	Serious Violations Detected by NRC				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
New Hampshire	0	-	0	-	-
New Jersey	29	-	2	27	-
New York	20	-	0	20	0
North Carolina	51	-	1	50	-
Ohio	25	-	3	22	-
Oregon	15	-	-	15	-
Pennsylvania	57	-	9	45	3
South Carolina	57	-	2	55	-
Tennessee	22	-	11	11	-
Texas	25	-	25	0	-
Vermont	5	-	-	5	-
Virginia	40	-	-	40	-
Washington	17	-	11	6	-
Wisconsin	17	-	-	17	0

Percent of Detected Violations Which NRC Deems Serious  
By State and Period (1981-1989 only)

	Serious Violation Component (percent)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
United States	6.3	-	3.9	7.2	4.7
Alabama	7.9	-	0.9	9.2	-
Arizona	9.7	-	2.8	20.0	-
Arkansas	3.0	-	-	3.0	-
California	8.7	-	9.1	8.9	0.0
Colorado	2.8	-	-	2.8	-
Connecticut	10.0	-	0.0	12.7	-
Florida	8.8	-	0.0	9.2	-
Georgia	5.5	-	3.0	6.8	-
Illinois	7.3	-	4.9	9.2	12.5
Iowa	3.0	-	-	3.0	-
Kansas	4.2	-	3.6	4.7	-
Louisiana	4.6	-	4.8	4.3	-
Maine	14.6	-	-	14.6	-
Maryland	2.0	-	-	2.0	-
Massachusetts	7.9	-	-	7.9	-
Michigan	6.3	-	7.0	6.0	0.0
Minnesota	4.8	-	-	4.8	-
Mississippi	3.9	-	5.1	1.5	-
Missouri	7.5	-	1.4	20.0	-
Nebraska	6.6	-	-	6.6	-

(CONTINUED)

Percent of Detected Violations Which NRC Deems Serious  
By State and Period (1981-1989 only)

	Serious Violation Component (percent)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
New Hampshire	0.0	-	0.0	-	-
New Jersey	6.3	-	2.4	7.1	-
New York	3.2	-	0.0	4.1	0.0
North Carolina	6.4	-	0.6	8.1	-
Ohio	6.4	-	1.9	9.3	-
Oregon	11.5	-	-	11.5	-
Pennsylvania	6.0	-	3.8	7.2	3.6
South Carolina	6.0	-	1.1	7.3	-
Tennessee	2.6	-	3.5	2.1	-
Texas	6.4	-	6.6	0.0	-
Vermont	5.2	-	-	5.2	-
Virginia	7.1	-	-	7.1	-
Washington	8.9	-	12.6	5.8	-
Wisconsin	4.7	-	-	4.7	0.0



Annual Average Number of Violations Detected by NRC Per Plant  
By State and Period

	Violation Rate				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
United States	14	0	10	18	4
Alabama	19	-	9	26	-
Arizona	5	0	4	9	-
Arkansas	19	-	13	20	-
California	8	-	4	13	3
Colorado	21	-	14	22	0
Connecticut	10	-	5	12	-
Florida	22	0	10	25	-
Georgia	17	-	11	25	-
Illinois	15	1	15	17	5
Iowa	22	-	0	22	-
Kansas	16	0	15	27	-
Louisiana	14	0	12	23	-
Maine	15	-	-	15	-
Maryland	16	-	4	17	-
Massachusetts	16	-	-	16	-
Michigan	16	-	19	19	0
Minnesota	10	-	-	10	-
Mississippi	9	-	8	16	-
Missouri	12	0	16	7	-
Nebraska	19	-	-	19	-

(CONTINUED)

Annual Average Number of Violations Detected by NRC Per Plant  
By State and Period

	Violation Rate				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
New Hampshire	7	0	8	-	-
New Jersey	16	-	11	19	-
New York	12	-	7	16	4
North Carolina	16	0	11	21	-
Ohio	15	1	13	25	-
Oregon	16	-	12	16	-
Pennsylvania	12	-	8	18	6
South Carolina	15	0	11	17	-
Tennessee	18	-	13	34	-
Texas	10	0	10	10	-
Vermont	13	-	-	13	-
Virginia	18	-	10	19	-
Washington	7	0	6	22	-
Wisconsin	11	-	-	12	1

Annual Average Number of Serious Violations Detected by NRC Per Plant  
By State and Period (1981-1989 only)

	Serious Violation Rate				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
United States	0.9	-	0.5	1.2	0.1
Alabama	1.8	-	0.1	2.5	-
Arizona	0.7	-	0.2	1.7	-
Arkansas	0.6	-	-	0.6	-
California	0.8	-	0.7	1.0	0.0
Colorado	0.7	-	-	0.7	0.0
Connecticut	0.7	-	0.0	0.8	-
Florida	2.1	-	0.0	2.2	-
Georgia	1.1	-	0.5	1.5	-
Illinois	1.1	-	1.0	1.3	0.3
Iowa	0.5	-	-	0.5	-
Kansas	0.9	-	0.6	1.3	-
Louisiana	0.9	-	0.8	1.0	-
Maine	2.1	-	-	2.1	-
Maryland	0.2	-	-	0.2	-
Massachusetts	1.1	-	-	1.1	-
Michigan	1.0	-	2.1	1.1	0.0
Minnesota	0.4	-	-	0.4	-
Mississippi	0.5	-	0.5	0.2	-
Missouri	0.9	-	0.3	1.5	-
Nebraska	1.6	-	-	1.6	-

(CONTINUED)

Annual Average Number of Serious Violations Detected by NRC Per Plant  
By State and Period (1981-1989 only)

	Serious Violation Rate				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
New Hampshire	0.0	-	0.0	-	-
New Jersey	0.8	-	0.3	1.0	-
New York	0.3	-	0.0	0.4	0.0
North Carolina	1.2	-	0.1	1.5	-
Ohio	1.0	-	0.2	2.1	-
Oregon	1.7	-	-	1.7	-
Pennsylvania	0.6	-	0.3	0.9	0.2
South Carolina	0.9	-	0.2	1.2	-
Tennessee	0.6	-	0.6	0.7	-
Texas	0.7	-	0.7	0.0	-
Vermont	0.6	-	-	0.6	-
Virginia	1.2	-	-	1.2	-
Washington	0.7	-	0.5	1.3	-
Wisconsin	0.5	-	-	0.5	0.0

Percent of Inspections Detecting a Violation  
By State and Period

	Violation Detection Rate (percent)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
United States	30.7	8.0	24.7	34.0	28.1
Alabama	34.4	-	30.3	35.8	-
Arizona	13.4	0.0	12.9	14.6	-
Arkansas	38.9	-	36.6	39.3	-
California	19.8	-	14.7	22.5	25.3
Colorado	47.7	-	57.1	47.1	-
Connecticut	23.3	-	15.4	24.9	-
Florida	38.2	0.0	24.9	40.1	-
Georgia	33.4	-	26.3	39.9	-
Illinois	31.3	36.4	28.8	33.5	21.3
Iowa	40.1	-	-	40.1	-
Kansas	38.2	0.0	33.2	50.7	-
Louisiana	35.6	0.0	31.1	46.7	-
Maine	37.5	-	-	37.5	-
Maryland	34.3	-	15.3	35.9	-
Massachusetts	34.1	-	-	34.1	-
Michigan	38.3	-	36.4	39.1	10.0
Minnesota	27.9	-	-	27.9	-
Mississippi	24.7	-	22.8	32.2	-
Missouri	34.6	0.0	39.1	26.7	-
Nebraska	41.9	-	-	41.9	-

(CONTINUED)



Percent of Inspections Detecting a Violation  
By State and Period

	Violation Detection Rate (percent)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
New Hampshire	26.6	0.0	26.8	-	-
New Jersey	31.5	-	26.7	33.9	-
New York	30.3	-	22.2	33.1	33.3
North Carolina	30.4	0.0	24.4	33.7	-
Ohio	33.0	14.3	27.9	42.3	-
Oregon	25.6	-	45.0	24.7	-
Pennsylvania	31.5	-	26.6	34.1	35.4
South Carolina	28.8	-	22.5	31.4	-
Tennessee	29.9	-	23.5	41.7	-
Texas	20.1	0.0	20.1	21.7	-
Vermont	32.3	-	-	32.3	-
Virginia	29.8	-	16.4	32.1	-
Washington	24.4	0.0	22.4	30.6	-
Wisconsin	30.7	-	-	31.0	13.3

Percent of Inspections Detecting a Serious Violation  
By State and Period (1981-1989 only)

	Serious Violation Detection Rate (pct)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State:					
United States	3.1	-	1.5	3.8	1.9
Alabama	5.3	-	0.6	6.3	-
Arizona	1.9	-	0.5	4.4	-
Arkansas	1.7	-	-	1.7	-
California	2.7	-	2.1	3.1	0.0
Colorado	2.3	-	-	2.3	-
Connecticut	2.7	-	0.0	3.3	-
Florida	5.4	-	0.0	6.0	-
Georgia	2.6	-	1.0	3.9	-
Illinois	3.6	-	2.5	4.5	2.6
Iowa	2.0	-	-	2.0	-
Kansas	2.6	-	1.7	3.7	-
Louisiana	2.7	-	2.3	3.3	-
Maine	8.6	-	-	8.6	-
Maryland	0.9	-	-	0.9	-
Massachusetts	4.3	-	-	4.3	-
Michigan	4.3	-	5.6	4.0	0.0
Minnesota	2.1	-	-	2.1	-
Mississippi	1.6	-	2.0	0.7	-
Missouri	3.5	-	0.8	6.9	-
Nebraska	4.8	-	-	4.8	-

(CONTINUED)

Percent of Inspections Detecting a Serious Violation  
By State and Period (1981-1989 only)

	Serious Violation Detection Rate (pct)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
New Hampshire	0.0	-	0.0	-	-
New Jersey	2.9	-	0.9	3.4	-
New York	1.3	-	0.0	1.9	0.0
North Carolina	2.9	-	0.2	3.9	-
Ohio	3.9	-	0.8	7.8	-
Oregon	4.6	-	-	4.6	-
Pennsylvania	2.7	-	1.3	3.4	2.1
South Carolina	2.4	-	0.3	3.1	-
Tennessee	1.5	-	1.6	1.5	-
Texas	2.1	-	2.2	0.0	-
Vermont	2.5	-	-	2.5	-
Virginia	3.2	-	-	3.2	-
Washington	4.0	-	4.1	3.8	-
Wisconsin	2.5	-	-	2.5	0.0

Number of Civil Penalties Proposed by NRC  
By State and Period

	Number of Penalties Proposed by NRC				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
United States	629	0	86	531	12
Alabama	53	-	2	51	-
Arizona	13	0	4	9	-
Arkansas	17	-	0	17	-
California	23	-	5	17	1
Colorado	3	-	0	3	0
Connecticut	12	-	0	12	-
Florida	40	0	0	40	-
Georgia	19	-	0	19	-
Illinois	88	0	20	64	4
Iowa	4	-	0	4	-
Kansas	7	0	4	3	-
Louisiana	6	0	3	3	-
Maine	4	-	-	4	-
Maryland	12	-	0	12	-
Massachusetts	11	-	-	11	-
Michigan	28	-	7	21	0
Minnesota	7	-	-	7	-
Mississippi	4	-	4	0	-
Missouri	3	0	1	2	-

(CONTINUED)

Note: A penalty asserted against a series of reactors operated by one utility is separately counted for each reactor affected.

Number of Civil Penalties Proposed by NRC  
By State and Period

	Number of Penalties Proposed by NRC				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
Nebraska	14	-	-	14	-
New Hampshire	1	0	1	-	-
New Jersey	23	-	2	21	-
New York	34	-	3	30	1
North Carolina	32	0	2	30	-
Ohio	9	0	1	8	-
Oregon	11	-	0	11	-
Pennsylvania	35	-	5	24	6
South Carolina	44	0	3	41	-
Tennessee	11	-	3	8	-
Texas	14	0	13	1	-
Vermont	4	-	-	4	-
Virginia	32	-	2	30	-
Washington	3	0	1	2	-
Wisconsin	8	-	-	8	0

Note: A penalty asserted against a series of reactors operated by one utility is separately counted for each reactor affected.



Total Dollars in Civil Penalties Proposed by NRC  
By State and Period

	Proposed Penalty (thousands of dollars)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
United States	\$33,867	\$0	\$4,909	\$28,437	\$522
Alabama	\$1,794	-	\$43	\$1,751	-
Arizona	\$830	\$0	\$180	\$650	-
Arkansas	\$652	-	\$0	\$652	-
California	\$2,003	-	\$510	\$1,485	\$8
Colorado	\$148	-	\$0	\$148	\$0
Connecticut	\$334	-	\$0	\$334	-
Florida	\$2,275	\$0	\$0	\$2,275	-
Georgia	\$679	-	\$0	\$679	-
Illinois	\$3,166	\$0	\$750	\$2,301	\$115
Iowa	\$135	-	\$0	\$135	-
Kansas	\$394	\$0	\$204	\$190	-
Louisiana	\$365	\$0	\$215	\$150	-
Maine	\$235	-	-	\$235	-
Maryland	\$656	-	\$0	\$656	-
Massachusetts	\$791	-	-	\$791	-
Michigan	\$2,280	-	\$635	\$1,645	\$0
Minnesota	\$143	-	-	\$143	-
Mississippi	\$677	-	\$677	\$0	-
Missouri	\$100	\$0	\$25	\$75	-
Nebraska	\$1,128	-	-	\$1,128	-

(CONTINUED)

Total Dollars in Civil Penalties Proposed by NRC  
By State and Period

	Proposed Penalty (thousands of dollars)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
New Hampshire	\$50	\$0	\$50	-	-
New Jersey	\$1,733	-	\$40	\$1,693	-
New York	\$2,043	-	\$230	\$1,802	\$12
North Carolina	\$1,662	\$0	\$27	\$1,635	-
Ohio	\$1,321	\$0	\$25	\$1,296	-
Oregon	\$854	-	\$0	\$854	-
Pennsylvania	\$2,756	-	\$223	\$2,146	\$388
South Carolina	\$1,623	\$0	\$89	\$1,534	-
Tennessee	\$533	-	\$190	\$343	-
Texas	\$755	\$0	\$705	\$50	-
Vermont	\$134	-	-	\$134	-
Virginia	\$1,215	-	\$32	\$1,183	-
Washington	\$160	\$0	\$60	\$100	-
Wisconsin	\$248	-	-	\$248	\$0

Total Dollars in Civil Penalties Proposed by NRC  
 (constant 1990 dollars)  
 By State and Period

	Proposed Penalty (constant thous of \$'s)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
United States	\$42,320	\$0	\$6,203	\$35,362	\$755
Alabama	\$2,211	-	\$51	\$2,160	-
Arizona	\$935	\$0	\$225	\$710	-
Arkansas	\$766	-	\$0	\$766	-
California	\$2,507	-	\$647	\$1,844	\$16
Colorado	\$186	-	\$0	\$186	\$0
Connecticut	\$443	-	\$0	\$443	-
Florida	\$2,712	\$0	\$0	\$2,712	-
Georgia	\$850	-	\$0	\$850	-
Illinois	\$3,960	\$0	\$918	\$2,901	\$140
Iowa	\$168	-	\$0	\$168	-
Kansas	\$477	\$0	\$258	\$219	-
Louisiana	\$436	\$0	\$268	\$168	-
Maine	\$290	-	-	\$290	-
Maryland	\$763	-	\$0	\$763	-
Massachusetts	\$1,115	-	-	\$1,115	-
Michigan	\$3,004	-	\$766	\$2,237	\$0
Minnesota	\$172	-	-	\$172	-
Mississippi	\$854	-	\$854	\$0	-
Missouri	\$119	\$0	\$31	\$87	-
Nebraska	\$1,370	-	-	\$1,370	-

(CONTINUED)

Total Dollars in Civil Penalties Proposed by NRC  
 (constant 1990 dollars)  
 By State and Period

	Proposed Penalty (constant thous of \$'s)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
New Hampshire	\$53	\$0	\$53	-	-
New Jersey	\$2,293	-	\$57	\$2,236	-
New York	\$2,810	-	\$308	\$2,476	\$26
North Carolina	\$2,130	\$0	\$42	\$2,087	-
Ohio	\$1,587	\$0	\$29	\$1,558	-
Oregon	\$1,011	-	\$0	\$1,011	-
Pennsylvania	\$3,407	-	\$276	\$2,559	\$572
South Carolina	\$1,957	\$0	\$110	\$1,846	-
Tennessee	\$650	-	\$255	\$395	-
Texas	\$941	\$0	\$886	\$55	-
Vermont	\$174	-	-	\$174	-
Virginia	\$1,440	-	\$73	\$1,367	-
Washington	\$207	\$0	\$94	\$112	-
Wisconsin	\$324	-	-	\$324	\$0

Average Dollars Per Proposed Civil Penalty  
By State and Period

	Average Penalty (dollars)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
United States	\$53,843	-	\$57,079	\$53,553	\$43,472
Alabama	\$33,854	-	\$21,429	\$34,341	-
Arizona	\$63,846	-	\$45,000	\$72,222	-
Arkansas	\$38,324	-	-	\$38,324	-
California	\$87,065	-	\$102,000	\$87,353	\$7,500
Colorado	\$49,333	-	-	\$49,333	-
Connecticut	\$27,833	-	-	\$27,833	-
Florida	\$56,875	-	-	\$56,875	-
Georgia	\$35,737	-	-	\$35,737	-
Illinois	\$35,972	-	\$37,500	\$35,951	\$28,667
Iowa	\$33,750	-	-	\$33,750	-
Kansas	\$56,286	-	\$51,000	\$63,333	-
Louisiana	\$60,833	-	\$71,667	\$50,000	-
Maine	\$58,750	-	-	\$58,750	-
Maryland	\$54,667	-	-	\$54,667	-
Massachusetts	\$71,909	-	-	\$71,909	-
Michigan	\$81,411	-	\$90,714	\$78,310	-
Minnesota	\$20,357	-	-	\$20,357	-
Mississippi	\$169,250	-	\$169,250	-	-
Missouri	\$33,333	-	\$25,000	\$37,500	-
Nebraska	\$80,536	-	-	\$80,536	-

(CONTINUED)



Average Dollars Per Proposed Civil Penalty  
By State and Period

	Average Penalty (dollars)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
New Hampshire	\$50,000	-	\$50,000	-	-
New Jersey	\$75,348	-	\$20,000	\$80,619	-
New York	\$60,088	-	\$76,667	\$60,050	\$11,500
North Carolina	\$51,931	-	\$13,500	\$54,493	-
Ohio	\$146,722	-	\$25,000	\$161,938	-
Oregon	\$77,591	-	-	\$77,591	-
Pennsylvania	\$78,743	-	\$44,500	\$89,396	\$64,667
South Carolina	\$36,880	-	\$29,667	\$37,408	-
Tennessee	\$48,442	-	\$63,333	\$42,857	-
Texas	\$53,929	-	\$54,231	\$50,000	-
Vermont	\$33,500	-	-	\$33,500	-
Virginia	\$37,966	-	\$15,950	\$39,433	-
Washington	\$53,167	-	\$59,500	\$50,000	-
Wisconsin	\$31,000	-	-	\$31,000	-

Average Dollars Per Proposed Civil Penalty  
(constant 1990 dollars)  
By State and Period

	Average Penalty (constant dollars)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
United States	\$67,281	-	\$72,128	\$66,596	\$62,876
Alabama	\$41,722	-	\$25,554	\$42,356	-
Arizona	\$71,935	-	\$56,335	\$78,869	-
Arkansas	\$45,086	-	-	\$45,086	-
California	\$108,993	-	\$129,394	\$108,453	\$16,176
Colorado	\$61,882	-	-	\$61,882	-
Connecticut	\$36,943	-	-	\$36,943	-
Florida	\$67,791	-	-	\$67,791	-
Georgia	\$44,752	-	-	\$44,752	-
Illinois	\$44,995	-	\$45,918	\$45,330	\$35,014
Iowa	\$42,063	-	-	\$42,063	-
Kansas	\$68,085	-	\$64,428	\$72,960	-
Louisiana	\$72,612	-	\$89,369	\$55,856	-
Maine	\$72,478	-	-	\$72,478	-
Maryland	\$63,559	-	-	\$63,559	-
Massachusetts	\$101,371	-	-	\$101,371	-
Michigan	\$107,273	-	\$109,482	\$106,537	-
Minnesota	\$24,590	-	-	\$24,590	-
Mississippi	\$213,612	-	\$213,612	-	-
Missouri	\$39,596	-	\$31,449	\$43,670	-
Nebraska	\$97,860	-	-	\$97,860	-

(CONTINUED)

Average Dollars Per Proposed Civil Penalty  
(constant 1990 dollars)  
By State and Period

	Average Penalty (constant dollars)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
New Hampshire	\$52,702	-	\$52,702	-	-
New Jersey	\$99,695	-	\$28,694	\$106,457	-
New York	\$82,650	-	\$102,508	\$82,539	\$26,416
North Carolina	\$66,551	-	\$21,082	\$69,583	-
Ohio	\$176,295	-	\$28,763	\$194,737	-
Oregon	\$91,912	-	-	\$91,912	-
Pennsylvania	\$97,337	-	\$55,184	\$106,625	\$95,311
South Carolina	\$44,469	-	\$36,774	\$45,032	-
Tennessee	\$59,114	-	\$84,972	\$49,417	-
Texas	\$67,218	-	\$68,139	\$55,241	-
Vermont	\$43,422	-	-	\$43,422	-
Virginia	\$45,006	-	\$36,637	\$45,564	-
Washington	\$68,901	-	\$94,377	\$56,164	-
Wisconsin	\$40,496	-	-	\$40,496	-

Annual Average Number of Civil Penalties Per Plant  
By State and Period

	Penalty Rate (number)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
United States	0.3	0.0	0.1	0.5	0.1
Alabama	0.5	-	0.0	0.8	-
Arizona	0.3	0.0	0.1	1.1	-
Arkansas	0.6	-	0.0	0.7	-
California	0.2	-	0.1	0.3	0.1
Colorado	0.2	-	0.0	0.2	0.0
Connecticut	0.2	-	0.0	0.3	-
Florida	0.5	0.0	0.0	0.7	-
Georgia	0.3	-	0.0	0.7	-
Illinois	0.4	0.0	0.3	0.6	0.4
Iowa	0.3	-	0.0	0.3	-
Kansas	0.5	0.0	0.5	0.8	-
Louisiana	0.2	0.0	0.1	0.4	-
Maine	0.3	-	-	0.3	-
Maryland	0.4	-	0.0	0.4	-
Massachusetts	0.4	-	-	0.4	-
Michigan	0.3	-	0.4	0.4	0.0
Minnesota	0.2	-	-	0.2	-
Mississippi	0.1	-	0.2	0.0	-
Missouri	0.2	0.0	0.1	0.4	-

(CONTINUED)

Note: A penalty asserted against a series of reactors operated by one utility is separately counted for each reactor affected.

Annual Average Number of Civil Penalties Per Plant  
By State and Period

	Penalty Rate (number)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
Nebraska	0.5	-	-	0.5	-
New Hampshire	0.1	0.0	0.1	-	-
New Jersey	0.4	-	0.1	0.6	-
New York	0.3	-	0.1	0.4	0.1
North Carolina	0.4	0.0	0.1	0.7	-
Ohio	0.2	0.0	0.0	0.6	-
Oregon	0.8	-	0.0	0.8	-
Pennsylvania	0.2	-	0.1	0.3	0.2
South Carolina	0.4	0.0	0.1	0.6	-
Tennessee	0.2	-	0.1	0.5	-
Texas	0.2	0.0	0.2	0.9	-
Vermont	0.3	-	-	0.3	-
Virginia	0.5	-	0.2	0.6	-
Washington	0.1	0.0	0.0	0.4	-
Wisconsin	0.1	-	-	0.1	0.0

Note: A penalty asserted against a series of reactors operated by one utility is separately counted for each reactor affected.



Annual Average Dollars of Proposed Civil Penalties Per Plant  
By State and Period

	Penalty Rate (dollars)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
United States	\$17,803	\$0	\$7,107	\$25,906	\$6,461
Alabama	\$17,517	-	\$1,043	\$28,548	-
Arizona	\$18,907	\$0	\$5,657	\$80,342	-
Arkansas	\$22,262	-	\$0	\$27,108	-
California	\$19,550	-	\$12,853	\$30,051	\$562
Colorado	\$10,114	-	\$0	\$11,668	\$0
Connecticut	\$5,706	-	\$0	\$7,223	-
Florida	\$31,094	\$0	\$0	\$37,666	-
Georgia	\$11,601	-	\$0	\$26,055	-
Illinois	\$15,452	\$0	\$9,657	\$20,607	\$10,615
Iowa	\$9,226	-	\$0	\$9,280	-
Kansas	\$26,926	\$0	\$24,453	\$47,960	-
Louisiana	\$12,472	\$0	\$10,738	\$21,180	-
Maine	\$16,060	-	-	\$16,060	-
Maryland	\$22,415	-	\$0	\$24,596	-
Massachusetts	\$27,028	-	-	\$27,028	-
Michigan	\$25,963	-	\$36,895	\$29,391	\$0
Minnesota	\$3,246	-	-	\$3,246	-
Mississippi	\$23,133	-	\$26,941	\$0	-
Missouri	\$6,834	\$0	\$2,868	\$16,065	-
Nebraska	\$38,526	-	-	\$38,526	-

(CONTINUED)

Annual Average Dollars of Proposed Civil Penalties Per Plant  
By State and Period

	Penalty Rate (dollars)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
New Hampshire	\$3,417	\$0	\$3,806	-	-
New Jersey	\$29,608	-	\$1,883	\$45,400	-
New York	\$17,452	-	\$7,652	\$24,891	\$786
North Carolina	\$22,713	\$0	\$949	\$39,197	-
Ohio	\$30,081	\$0	\$946	\$101,146	-
Oregon	\$58,328	-	\$0	\$64,413	-
Pennsylvania	\$17,122	-	\$3,578	\$29,096	\$15,501
South Carolina	\$15,842	\$0	\$2,971	\$21,508	-
Tennessee	\$9,104	-	\$4,401	\$22,327	-
Texas	\$12,899	\$0	\$12,692	\$43,349	-
Vermont	\$9,157	-	-	\$9,157	-
Virginia	\$20,756	-	\$3,401	\$24,068	-
Washington	\$3,633	\$0	\$1,697	\$21,346	-
Wisconsin	\$4,237	-	-	\$4,411	\$0

Annual Average Dollars of Proposed Civil Penalties Per Plant  
(constant 1990 dollars)  
By State and Period

	Penalty Rate (constant dollars)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
United States	\$22,247	\$0	\$8,981	\$32,215	\$9,344
Alabama	\$21,588	-	\$1,244	\$35,210	-
Arizona	\$21,303	\$0	\$7,083	\$87,736	-
Arkansas	\$26,190	-	\$0	\$31,891	-
California	\$24,474	-	\$16,305	\$37,310	\$1,213
Colorado	\$12,687	-	\$0	\$14,635	\$0
Connecticut	\$7,574	-	\$0	\$9,587	-
Florida	\$37,062	\$0	\$0	\$44,895	-
Georgia	\$14,527	-	\$0	\$32,628	-
Illinois	\$19,328	\$0	\$11,825	\$25,984	\$12,965
Iowa	\$11,498	-	\$0	\$11,565	-
Kansas	\$32,570	\$0	\$30,891	\$55,250	-
Louisiana	\$14,887	\$0	\$13,391	\$23,661	-
Maine	\$19,812	-	-	\$19,812	-
Maryland	\$26,062	-	\$0	\$28,597	-
Massachusetts	\$38,102	-	-	\$38,102	-
Michigan	\$34,211	-	\$44,528	\$39,985	\$0
Minnesota	\$3,921	-	-	\$3,921	-
Mississippi	\$29,196	-	\$34,003	\$0	-
Missouri	\$8,118	\$0	\$3,608	\$18,709	-
Nebraska	\$46,814	-	-	\$46,814	-

(CONTINUED)

Annual Average Dollars of Proposed Civil Penalties Per Plant  
 (constant 1990 dollars)  
 By State and Period

	Penalty Rate (constant dollars)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
New Hampshire	\$3,602	\$0	\$4,012	-	-
New Jersey	\$39,175	-	\$2,702	\$59,951	-
New York	\$24,005	-	\$10,232	\$34,213	\$1,805
North Carolina	\$29,108	\$0	\$1,482	\$50,051	-
Ohio	\$36,144	\$0	\$1,088	\$121,632	-
Oregon	\$69,093	-	\$0	\$76,302	-
Pennsylvania	\$21,165	-	\$4,437	\$34,703	\$22,847
South Carolina	\$19,102	\$0	\$3,682	\$25,891	-
Tennessee	\$11,109	-	\$5,904	\$25,744	-
Texas	\$16,078	\$0	\$15,947	\$47,893	-
Vermont	\$11,870	-	-	\$11,870	-
Virginia	\$24,606	-	\$7,813	\$27,810	-
Washington	\$4,709	\$0	\$2,692	\$23,977	-
Wisconsin	\$5,535	-	-	\$5,762	\$0

Percent of Inspections with a Civil Penalty Proposed by NRC  
By State and Period

	Penalties as a Percent of Inspections				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
United States	1.3	0.0	0.5	1.6	2.2
Alabama	1.7	-	0.2	2.2	-
Arizona	1.3	0.0	0.6	2.9	-
Arkansas	2.0	-	0.0	2.3	-
California	0.9	-	0.6	1.2	1.2
Colorado	0.8	-	0.0	0.9	-
Connecticut	0.9	-	0.0	1.0	-
Florida	1.7	0.0	0.0	1.9	-
Georgia	1.0	-	0.0	1.9	-
Illinois	1.6	0.0	0.9	2.0	2.4
Iowa	1.1	-	-	1.1	-
Kansas	1.8	0.0	1.6	2.2	-
Louisiana	0.9	0.0	0.6	1.4	-
Maine	1.2	-	-	1.2	-
Maryland	1.6	-	0.0	1.7	-
Massachusetts	1.5	-	-	1.5	-
Michigan	1.5	-	1.6	1.5	0.0
Minnesota	0.8	-	-	0.8	-
Mississippi	0.6	-	0.7	0.0	-
Missouri	1.0	0.0	0.5	2.0	-
Nebraska	1.8	-	-	1.8	-

(CONTINUED)



Percent of Inspections with a Civil Penalty Proposed by NRC  
By State and Period

	Penalties as a Percent of Inspections				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
New Hampshire	0.4	0.0	0.4	-	-
New Jersey	1.4	-	0.4	1.9	-
New York	1.4	-	0.5	1.7	1.4
North Carolina	1.3	0.0	0.2	1.9	-
Ohio	0.9	0.0	0.2	2.2	-
Oregon	2.4	-	0.0	2.5	-
Pennsylvania	1.0	-	0.4	1.2	3.1
South Carolina	1.3	-	0.3	1.7	-
Tennessee	0.5	-	0.2	1.1	-
Texas	0.9	0.0	0.8	2.2	-
Vermont	1.2	-	-	1.2	-
Virginia	1.5	-	0.6	1.6	-
Washington	0.5	0.0	0.2	1.3	-
Wisconsin	0.7	-	-	0.7	0.0

Percent of Violations with Civil Penalties Proposed  
By State and Period

	Penalized Violations (percent)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
United States	4.1	0.0	2.1	4.8	7.9
Alabama	4.8	-	0.8	6.0	-
Arizona	9.5	-	4.4	19.6	-
Arkansas	5.1	-	0.0	5.8	-
California	4.8	-	3.9	5.1	4.8
Colorado	1.7	-	0.0	1.8	-
Connecticut	3.7	-	0.0	4.1	-
Florida	4.4	-	0.0	4.7	-
Georgia	2.9	-	0.0	4.7	-
Illinois	5.1	0.0	3.2	6.1	11.1
Iowa	2.8	-	-	2.8	-
Kansas	4.7	-	4.9	4.4	-
Louisiana	2.4	-	2.0	3.0	-
Maine	3.3	-	-	3.3	-
Maryland	4.7	-	0.0	4.8	-
Massachusetts	4.4	-	-	4.4	-
Michigan	4.0	-	4.4	3.8	0.0
Minnesota	2.8	-	-	2.8	-
Mississippi	2.3	-	3.1	0.0	-
Missouri	2.8	-	1.2	7.4	-

(CONTINUED)

Note: A penalty asserted against a series of reactors operated by one utility is separately counted for each reactor affected.

Percent of Violations with Civil Penalties Proposed  
By State and Period

	Penalized Violations (percent)				
	Period				
	All	Pre-Construct	Construct	Operation	Post Shutdown
State					
Nebraska	4.3	-	-	4.3	-
New Hampshire	1.5	-	1.5	-	-
New Jersey	4.5	-	1.4	5.7	-
New York	4.5	-	2.1	5.1	4.3
North Carolina	4.3	-	1.0	5.6	-
Ohio	2.8	0.0	0.6	5.3	-
Oregon	9.4	-	0.0	10.2	-
Pennsylvania	3.2	-	1.5	3.4	8.7
South Carolina	4.5	-	1.4	5.4	-
Tennessee	1.8	-	0.9	2.6	-
Texas	4.3	-	4.1	10.0	-
Vermont	3.6	-	-	3.6	-
Virginia	5.0	-	3.9	5.1	-
Washington	2.1	-	1.1	4.1	-
Wisconsin	2.2	-	-	2.2	0.0

Note: A penalty asserted against a series of reactors operated by one utility is separately counted for each reactor affected.