UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

September 24, 1999

MEMORANDUM TO: Cynthia A. Carpenter, Chief
Generic Issues, Environmental, Financial and Rulemaking Branch
Division of Regulatory Improvement Programs, NRR

FROM: Joseph L. Birmingham, Project Manager
Generic Issues, Environmental, Financial and Rulemaking Branch
Division of Regulatory Improvement Programs, NRR

SUBJECT: SUMMARY OF MEETING WITH NUCLEAR ENERGY INSTITUTE ON YEAR 2000 COMPUTER SYSTEMS READINESS ISSUES

On September 10, 1999, representatives of the Nuclear Energy Institute (NEI) met with the staff of the Nuclear Regulatory Commission (NRC) at the NRC's offices in Rockville, Maryland. Attachment 1 lists the meeting attendees.

The meeting began with opening remarks by Frank Miraglia, Deputy Executive Director for Reactor Programs. Mr. Miraglia stated the purpose of the meeting was (1) to summarize industry status of readiness from the perspective of the NRC and (2) provide NEI an opportunity to present how information will be shared among licensees and the NRC regarding maintaining Y2K readiness through the remaining transition period. Mr. Ralph Beedle, Senior Vice President and Chief Nuclear Officer of NEI and Mr. Jim Davis, Director of Operations for NEI , made the presentation for NEI.

Dick Wessman, Deputy Director Division of Engineering, Office of Nuclear Reactor Regulation, handed out the meeting agenda and the NRC presentation material (Attachments 2 and 3). Mr. Wessman's presentation (1) summarized nuclear power plant Y2K readiness from the NRC perspective, (2) described NRC's planned actions to confirm completion of items reported not to be Y2K ready as of July 1, 1999, and (3) described NRC plans to continue to monitor plant Y2K readiness. The NRC expects all remaining open items will be closed by December 16, 1999 and no plant specific actions are expected at this time. Mr. Wessman announced that NUREG-1706, "Year 2000 Readiness in U.S. Nuclear Power Plants," which describes NRC and licensee actions to prepare for the Y2K software problem had been issued and provides Y2K readiness status as of September 1, 1999. NUREG-1706 may be viewed on the NRC's website at http://www.nrc.gov/NRC/NEWS/year2000.html.

In the NEI presentation, Mr. Davis stated that industry had reported all nuclear safety related systems were Y2K ready. Additionally, only 36 Y2K readiness items remained open in the nonsafety systems. The nonsafety items are in three areas; Plant Operations, Plan Support, and Site Support. All but three items are scheduled to be completed by November 1, 1999 and the remainder by December 16, 1999. NEI asked industry to report the completion of each open item to NEI and the NRC Resident Inspector, inform NEI and the NRC if a scheduled

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completion date could not be met, and to provide an updated readiness letter when all items are completed. Attachment 4 is the NEI presentation material and Attachment 5 is NEI's, "Nuclear Utility Industry Year 2000 Readiness Status Updated September 9, 1999."

NEI discussed configuration management indicating that industry recognized the need to maintain Y2K readiness. To address this issue, licensees included Y2K requirements into procedures for regular and corrective maintenance, component upgrades, and for new acquisitions. Also, industry has been asked to report new Y2K issues that affect reactor readiness and to share the new issues with the industry via the NEI list server. Reporting of issues to NRC would be consistent with existing requirements.

NEI and NRC briefly discussed contingency planning and the NRC Y2K Early Warning System and the meeting was closed.

Attachments: As stated

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OFFICE	RGEB:DRIP	DE:NRR	RGEB/DRIP/NRR
NAME	JBirmingham:bf	RWessman	FAkstulewicz
DATE	09/23 /99	09/24 /99	09/24 /99

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with comment

NRC/NEI MEETING ON INDUSTRY Y2K READINESS ACTIVITIES
LIST OF ATTENDEES
September 10, 1999

NAME	ORGANIZATION
Mathew Chiramal	NRR/DE/EEIB
Michael Waterman	NRR/DE/EEIB
Mario Gareri	NRR/DE/EEIB
Alvin Bryant	NRR/DE/EEIB
Deirdre Spaulding	NRR/DE/EEIB
Chris Nolan	NRR/DLPM/LPD4
Joe Birmingham	NRR/DRIP/RGEB
Joseph Giitter	NRC/IRO
Leonard Wert	NRC/OEDO
Frank Miraglia	NRC/OEDO
Dick Wessman	NRR/DE
Beth Hayden	NRC/OPA
Laura Gerke	NRC/OCA
Ralph Beedle	NEI
Jim Davis	NEI
Jocelyn Burleson	Bechtel/Serch
Leslie Collins	ABB Centerior
Susan Yiu	Winston & Strawn

Attachment 1

MEETING BETWEEN NEI AND NRC REGARDING Y2K ACTIVITIES
SEPTEMBER 10, 1999
AGENDA

Opening Remarks	NRC/NEI
Summary of Nuclear Power Plant Status (NUREG-1706)	NRC
Industry Comments on Power Plant Status	NEI
Processes to Maintain Y2K Readiness	NEI
Sharing of Generic Y2K Information	NEI
General Discussion	NRC/NEI
Closing Remarks	NRC/NEI

ATTACHMENT 2

Status and Perspective on Nuclear Regulatory Commission Year 2000 Initiatives for Nuclear Power Plants

September 10, 1999
(112 Days to Y2K)

Richard H. Wessman, Deputy Director
Division of Engineering
E-Mail: rhw@nrc.gov

ATTACHMENT 3

Status of NPP Y2K Readiness

- Reports for all 103 operating NPPs submitted and all site reviews complete
- No Y2K concerns affecting performance of safety systems, or the ability of an NPP to shut down safely
- As of September 1, 1999, 75 NPPs reported all remaining systems and components needed for continued plant operation are Y2K ready
- 28 NPPs have additional work on a few non-safety systems

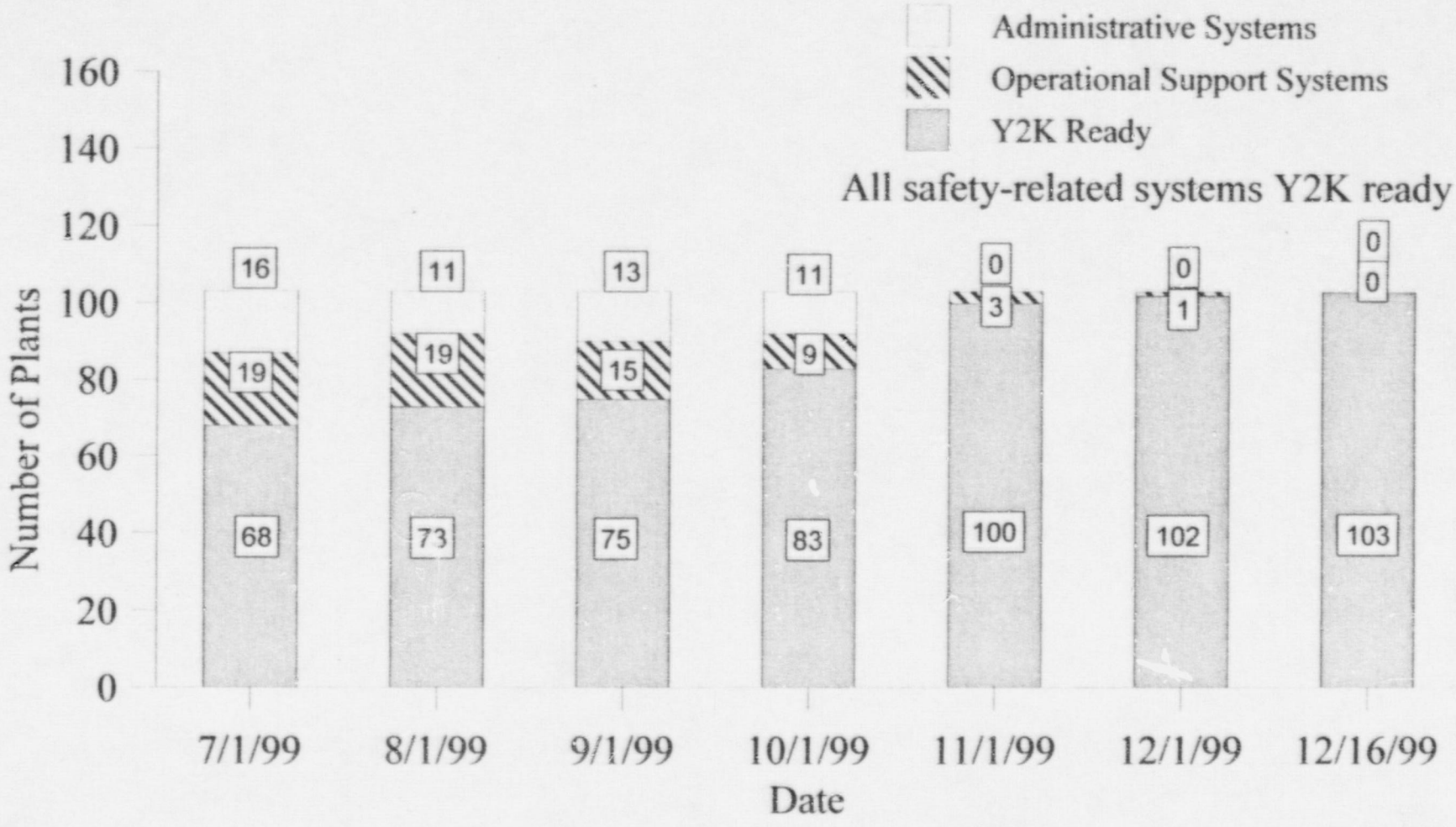
Status of NPP Y2K Readiness (Cont.)

- 15 of 28 NPPs involve systems or components that potentially could affect power generation
- 13 of 28 NPPs involve systems or components that do not affect power generation
- Typically, NPP awaiting scheduled outage or component delivery
- By November 1, only three NPPs will have work remaining: Salem 1 (11/6), Commanche Peak 1 (11/30), and Farley 2 (12/16)
- NUREG-1760, "Year 2000 Readiness in U.S. Nuclear Power Plants," issued September 7, 1999

NRC Follow-Up Activities

- NRC is independently confirming completion of remaining items at NPPs that were not Y2K ready on July 1, 1999
- NRC will assess NPP owners' Y2K readiness progress by Sept.30; will determine need for additional regulatory action (not expecting a need for NRC to direct plant-specific action)
- Working with industry on measures for Y2K configuration management and sharing of generic information
- Enforcement discretion policy related to Y2K concerns noted in *Federal Register* on July 22, 1999; developing implementing procedure
- Preparing for October 15, 1999 Y2K exercise
- Continue to update NRC Y2K Website, issue appropriate press releases, and respond to public correspondence and inquiries

Status of Nuclear Power Plant Y2K Readiness



NPP Y2K Readiness Status as of September 1, 1999		
NPP Name	**NPP Licensee**	**Readiness Status/Date**
Arkansas Nuclear One, Units 1 and 2	Entergy Operations, Inc.	Y2K Ready
Beaver Valley Power Station, Units 1 and 2	Duquesne Light Company	9/30/99
Braidwood Station, Units 1 and 2	Commonwealth Edison Company	Y2K Ready
Browns Ferry Nuclear Power Station, Units 2 and 3	Tennessee Valley Authority	10/31/99
Brunswick Steam Electric Plant, Units 1 and 2	Carolina Power and Light Company	Y2K Ready
Byron Station, Units 1 and 2	Commonwealth Edison Company	Y2K Ready
Callaway Plant, Unit 1	Union Electric Company	Y2K Ready
Calvert Cliffs Nuclear Power Plant, Units 1 and 2	Baltimore Gas and Electric Company	Y2K Ready
Catawba Nuclear Station, Units 1 and 2	Duke Energy Corporation	Y2K Ready
Clinton Power Station, Unit 1	Illinois Power Company	9/22/99
Comanche Peak Steam Electric Station, Unit 1	Texas Utilities Electric Company	11/30/99
Comanche Peak Steam Electric Station, Unit 2	Texas Utilities Electric Company	10/30/99
Cooper Nuclear Station	Nebraska Public Power District	9/20/99
Crystal River Unit 3 Nuclear Generating Plant	Florida Power Corporation	Y2K Ready
Davis-Besse Nuclear Power Station, Unit 1	First Energy Services Corporation	Y2K Ready
Diablo Canyon Nuclear Power Plant, Units 1 and 2	Pacific Gas and Electric Company	10/31/99
Donald C. Cook Nuclear Plant, Units 1 and 2	Indiana Michigan Power Company	10/30/99
Dresden Nuclear Power Station, Units 2 and 3	Commonwealth Edison Company	Y2K Ready
Duane Arnold Energy Center	IES Utilities, Inc.	Y2K Ready
Edwin I. Hatch Nuclear Plant, Units 1 and 2	Southern Nuclear Operating Company, Inc.	Y2K Ready

NPP Y2K Readiness Status as of September 1, 1999		
NPP Name	**NPP Licensee**	**Readiness Status/Date**
Enrico Fermi Atomic Power Plant, Unit 2	Detroit Edison Company	Y2K Ready
Fort Calhoun Station, Unit 1	Omaha Public Power District	Y2K Ready
Grand Gulf Nuclear Station, Unit 1	Entergy Operations, Inc.	Y2K Ready
H. B. Robinson Plant, Unit 2	Carolina Power and Light Company	Y2K Ready
Hope Creek Nuclear Station, Unit 1	Public Service Electric and Gas Co. of New Jersey	10/29/99
Indian Point Unit No. 2	Consolidated Edison Company of New York, Inc.	Y2K Ready
Indian Point Station, Unit 3	Power Authority of the State of New York	Y2K Ready
James A. FitzPatrick Nuclear Power Plant	Power Authority of the State of New York	Y2K Ready
Joseph M. Farley Nuclear Plant, Unit 1	Southern Nuclear Operating Company, Inc.	Y2K Ready
Joseph M. Farley Nuclear Plant, Unit 2	Southern Nuclear Operating Company, Inc.	12/16/99
Kewaunee Nuclear Power Plant	Wisconsin Public Service Corporation	Y2K Ready
LaSalle County Station, Units 1 and 2	Commonwealth Edison Company	Y2K Ready
Limerick Generating Station, Unit 1	PECO Energy Company	Y2K Ready
Limerick Generating Station, Unit 2	PECO Energy Company	9/30/99
Millstone Nuclear Power Station, Units 2 and 3	Northeast Nuclear Energy Company	Y2K Ready
Monticello Nuclear Generating Plant	Northern States Power Company	Y2K Ready
Nine Mile Point Nuclear Station, Units 1 and 2	Niagara Mohawk Power Corporation	Y2K Ready
North Anna Power Station, Unit 1	Virginia Electric and Power Company	Y2K Ready
North Anna Power Station, Unit 2	Virginia Electric and Power Company	10/29/99
Oconee Nuclear Station, Units 1, 2, and 3	Duke Energy Corporation	Y2K Ready

NPP Y2K Readiness Status as of September 1, 1999		
NPP Name	**NPP Licensee**	**Readiness Status/Date**
Oyster Creek Nuclear Generating Station	GPU Nuclear Corp.	9/30/99
Palisades Nuclear Plant	Consumers Energy Company	Y2K Ready
Palo Verde Nuclear Generating Station, Units 1, 2, and 3	Arizona Public Service Company	Y2K Ready
Peach Bottom Atomic Power Station, Unit 2	PECO Energy Company	9/30/99
Peach Bottom Atomic Power Station, Unit 3	PECO Energy Company	10/31/99
Perry Nuclear Power Plant, Unit 1	First Energy Nuclear Operating Company	Y2K Ready
Pilgrim Nuclear Power Station, Unit 1	Boston Edison Company	Y2K Ready
Point Beach Nuclear Plant, Units 1 and 2	Wisconsin Electric Power Company	Y2K Ready
Prairie Island Nuclear Generating Plant, Units 1 and 2	Northern States Power Company	Y2K Ready
Quad Cities Nuclear Power Station, Units 1 and 2	Commonwealth Edison Company	Y2K Ready
River Bend Station, Unit 1	Entergy Operations, Inc.	Y2K Ready
Robert Emmet Ginna Nuclear Plant, Unit 1	Rochester Gas and Electric Corp.	Y2K Ready
Salem Nuclear Generating Station, Unit 1	Public Service Electric and Gas Co. of New Jersey	11/6/99
Salem Nuclear Generating Station, Unit 2	Public Service Electric and Gas Co. of New Jersey	10/29/99
San Onofre Nuclear Generating Station, Units 2 and 3	Southern California Edison Company	Y2K Ready
Seabrook, Unit 1	North Atlantic Energy Service Corporation	Y2K Ready
Sequoyah Nuclear Plant, Units 1 and 2	Tennessee Valley Authority	10/31/99
Shearon Harris Nuclear Power Plant, Unit 1	Carolina Power and Light Company	Y2K Ready
South Texas Project Electric Generating Station, Units 1 and 2	South Texas Project Nuclear Operating Company	10/31/99

NPP Y2K Readiness Status as of September 1, 1999		
NPP Name	**NPP Licensee**	**Readiness Status/Date**
St. Lucie Plant, Units 1 and 2	Florida Power and Light Company	Y2K Ready
Surry Power Station, Units 1 and 2	Virginia Electric and Power Company	Y2K Ready
Susquehanna Steam Electric Station, Units 1 and 2	Pennsylvania Power and Light Company	Y2K Ready
Three Mile Island Nuclear Station, Unit 1	GPU Nuclear Corp.	10/21/99
Turkey Point Plant, Units 3 and 4	Florida Power and Light Company	Y2K Ready
Vermont Yankee Nuclear Power Station	Vermont Yankee Nuclear Power Corporation	9/30/99
Virgil C. Summer Nuclear Station, Unit 1	South Carolina Electric & Gas Company	Y2K Ready
Vogtle Electric Generating Plant, Units 1 and 2	Southern Nuclear Operating Company, Inc.	Y2K Ready
Washington Public Power Supply System Nuclear Project No. 2	Washington Public Power Supply System	Y2K Ready
Waterford Steam Electric Station, Unit 3	Entergy Operations, Inc.	Y2K Ready
Watts Bar Nuclear Plant, Unit 1	Tennessee Valley Authority	10/31/99
William B. McGuire Nuclear Station, Units 1 and 2	Duke Energy Corporation	Y2K Ready
Wolf Creek Generating Station	Wolf Creek Nuclear Operating Corporation	Y2K Ready

Maintaining Facility Y2K Readiness

Jim Davis

NEI

September 10, 1999

NEI

Topics

- Configuration Management
- Reporting
- Current Industry Status

NEI

Readiness Program

- Has been a focused "configuration management" effort
  - Y2K database a key tool
- Not intended to be permanent
- Use existing utility programs where possible

NEI

From Industry Guidance

- Sec 2.2 Scope--"…supplement and use existing procedures used for software quality control, **configuration management** and **problem reporting**."
- Sec 6.2 Implementation QA--"…ensure:...Systems are placed, or retained, under a system of configuration management,…"

NEI

Maintaining component Y2K readiness

- Biggest challenge was during Y2K program--Some components ready, while others were not
- Needed to address in areas of:
  - Corrective maintenance
  - Component upgrades
  - New acquisitions

NEI

Configuration Management -- an industry issue

- EPRI quarterly workshops--
  - Electric industry issue starting in August 98 meeting
  - Nuclear breakout sessions
- NUSMG meetings
- NEI Workshop in December 1998
  - Management during the program
  - A readiness reporting issue
- NERC quarterly workshops

NEI

Some techniques shared

- Compliance requirements in contracts for new systems or spares
- Tags on Y2K components--color changed based on readiness status
- Warehouse management techniques
  - Ready component identification
- Work management and testing procedures

NEI

What does facility Y2K ready mean?

- Defined in industry discussion and March NEI letter
- Issue 3--When is a facility Y2K ready?
  - "…Once a facility is ready, steps should be taken to ensure that readiness of systems is maintained during any maintenance."

NEI

What does facility Y2K ready mean?(Cont.)

- Issue 10--A Y2K ready feedwater control will be replaced. How is this reported?
  - "Report the feedwater control system as ready…Any maintenance or modification performed on systems and components must maintain this readiness certification. This type of issue can result from both planned and unplanned maintenance. The facility needs to ensure that readiness is maintained."

NEI

Updating readiness status

- Industry has been asked to:
  - Report completion of each open item to NEI and NRC resident.
  - Inform NEI and the NRC if a scheduled date cannot be met.
  - Provide updated readiness letter when all items are completed.
- Latest status is posted on NEI web site--www.nei.org

NEI

New readiness issues

- Facilities have been asked to report new Y2K issues that affect unit Y2K readiness.
  - Does not include items immediately resolved.
  - Alert industry of new issues on NEI list server
- Maintenance issues handled under existing facility programs
  - Operability determinations and normal reporting requirements would apply.

NEI

Current Industry Status

- Y2K ready-- 77 plants
- With open items-- 26 plants
  - Plant Operations and support-- 18 plants
  - Site support--8 plants
- Total open items--36
  - Plant Operations-- 11
  - Plant Support-- 9
  - Site support-- 16

NEI

Nuclear Utility Industry Year 2000 Readiness Status
Updated September 9, 1999

(Year 2000 Readiness Disclosure[1])

Each of the 103 commercial nuclear power reactors has reported the status of their Year 2000 readiness program, based on industry guidelines in *Nuclear Utility Year 2000 Readiness*. These programs apply to software, hardware and firmware in which failure due to a Y2K issue could interfere with performance of a safety function or impact continued safe operation of the nuclear facility.

To date, 77 reactors have completed all remediation and are Y2K ready. Of the 26 reactors with work remaining, eight report they are only remediating site support systems that do not impact reactor operations. There are 18 reactors remediating plant operating or plant support systems. Only 36 items remain open.

Over the past two years, the industry has tested approximately 200,000 items that could be susceptible to Y2K issues. Of these, approximately five percent—or 10,000 items—needed remediation. The industry has completed over 99 percent of the overall readiness program.

Each facility also prepared contingency plans for key Y2K rollover dates using guidance in *Nuclear Utility Year 2000 Readiness Contingency Planning*. These plans will reduce the impact of internal or external Y2K induced failures. Both industry guidelines are publicly available at the Nuclear Energy Institute web site (http://www.nei.org).

The Nuclear Regulatory Commission (NRC), the federal government's nuclear safety regulator, has been directly involved in the industry's Y2K readiness activity for the past two years, including on-site program reviews. NRC audits and on-site reviews have confirmed that nuclear power plants will continue to generate electricity safely and reliably as we enter the year 2000. The agency also concurs that all safety systems will function if required to safely shut down a plant. Independent NRC and industry audits have concluded that Y2K readiness programs have been properly executed.

The nuclear industry's Y2K effort has been closely coordinated with the North American Electric Reliability Council (NERC), the organization managing the overall Y2K readiness effort of the electric industry. The current industry status leads to high confidence that nuclear generation plants will continue to reliably deliver 20 percent of the nation's electricity needs well into the next century.

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[1] This year 2000 readiness disclosure is made under the "Year 2000 Information and Readiness Disclosure Act" (Public Law 105-271)

Nuclear Generation plants that are Y2K Ready

The following 77 plants report they have completed all remediation and are Y2K ready.

Company–Plants
Alliant Energy—Duane Arnold
Ameren UE—Callaway
Arizona Public Service Company—Palo Verde 1, 2 & 3
Baltimore Gas & Electric—Calvert Cliffs 1 & 2
Carolina Power & Light Company—Brunswick 1 & 2
Carolina Power & Light Company—Harris 1
Carolina Power & Light Company—Robinson 2
Commonwealth Edison—Braidwood 1 & 2
Commonwealth Edison—Byron 1 & 2
Commonwealth Edison—Dresden 2 & 3
Commonwealth Edison—LaSalle 1 & 2
Commonwealth Edison—Quad Cities 1 & 2
Consolidated Edison—Indian Point 2
Consumers Energy—Palisades
Detroit Edison—Fermi 2
Duke Energy Corporation—Catawba 1 and 2
Duke Energy Corporation—McGuire 1 and 2
Duke Energy Corporation—Oconee 1, 2, and 3
Entergy Operations—Arkansas Nuclear One 1 and 2
Entergy Operations—Grand Gulf 1
Entergy Operations—Pilgrim
Entergy Operations—River Bend
Entergy Operations—Waterford 3
First Energy Corporation—Davis-Besse
First Energy Corporation—Perry 1
Florida Power & Light—St. Lucie 1 & 2
Florida Power & Light—Turkey Point 3 & 4
Florida Power Corporation—Crystal River 3
Nebraska Public Power District—Cooper
New York Power Authority—James A. Fitzpatrick
New York Power Authority—Indian Point 3
Niagara Mohawk—Nine Mile Point 1 & 2
Northeast Utilities—Millstone 2 & 3
Northeast Utilities—Seabrook 1
Northern States Power Company—Monticello
Northern States Power Company—Prairie Island 1 & 2

Omaha Public Power District—Fort Calhoun
PECO Energy Company—Limerick 1
Pennsylvania Power & Light—Susquehanna 1 & 2
Rochester Gas and Electric—Ginna
South Carolina Electric & Gas—V. C. Summer
Southern California Edison—San Onofre 2 & 3
Southern Nuclear Operating Company—Farley 1
Southern Nuclear Operating Company—Hatch 1 & 2
Southern Nuclear Operating Company—Vogtle 1 & 2
Virginia Power—North Anna 1 & 2
Virginia Power—Surry 1 & 2
Washington Public Power (Energy Northwest)—WNP-2
Wisconsin Electric Power—Point Beach 1 & 2
Wisconsin Public Service—Kewaunee
Wolf Creek Nuclear—Wolf Creek

Nuclear Generation Plants and Sites with Y2K Remediation Outstanding

Safety systems:

Company–Plant Item–Impact	Completion Date
NONE	

Plant Operating and Plant Support Systems:

Applicable Site Support Systems are also listed so each plant only appears in one table.

Company–Plant Item–Impact	Completion Date
Duquesne Light Company—Beaver Valley 1 & 2	
Unit 1 Plant Monitoring and Trending Computer—Logs and trends plant parameters but provides no control functions. A software upgrade will be conducted.	9/30/99
Unit 2 Plant Monitoring and Trending Computer—Logs and trends plant parameters but provides no control functions. A software upgrade will be conducted.	9/30/99

Site Atmospheric Radioactive Effluent Release Assessment System (ARERAS)—Used for calculations in support of the emergency plan. The system is being replaced.	9/30/99
GPU Nuclear Corporation—Three Mile Island 1	
Unit 1 Digital Turbine Control System—A BIOS upgrade will be performed during the fall outage. Bench testing has been completed.	10/21/99 (fall outage)
Site Integrated Software System for Managing Personnel Radiation Exposure—Record system for tracking exposure, a function that could be performed manually.	9/30/99
Illinois Power—Clinton	
Unit's 3-D Monicore system—Used to make periodic core performance calculations during plant operations. Baseline software package has been verified.	9/22/99
Pacific Gas & Electric Company—Diablo Canyon 1 & 2	
Unit 1 Main Annunciator System (MAS)—An upgrade is being tested on the plant annunciator development system and will be installed during the same time frame as Unit 2.	10/31/99
Unit 2 Main Annunciator System (MAS)—An upgrade is being tested on the plant annunciator development system and will be installed during the fall outage.	10/31/99
PECO Energy Company—Peach Bottom 2 & 3	
Unit 3 Digital Feedwater System—Work will be performed during September outage.	10/31/99 (fall outage)
Unit 2 3-D Monicore system—Used to make periodic core performance calculations during plant operations.	9/30/99
Unit 3 3-D Monicore system—Used to make periodic core performance calculations during plant operations.	9/30/99
Unit 3 Turbine Vibration Monitor—Used for protection of feed pump and turbine system. Work will be performed during September outage.	10/31/99 (fall outage)
PECO Energy Company—Limerick 2	
Unit 2 3-D Monicore system—Used to make periodic core performance calculations during plant operations.	9/30/99
Public Service Electric & Gas—Salem 1 & 2	
Unit 1 Advanced Digital Feedwater system—Control Modifications have been developed and this upgrade has been completed on Unit 2. Will be upgraded during the fall outage.	11/6/99 (fall outage)

	Unit 1 Plant Computer Monitoring and Alarm System—This is a software upgrade which has already been completed on Unit 2. Will be upgraded during the fall outage.	11/6/99 (fall outage)
	Unit 1 Overhead Annunciator System— This is a software upgrade which has already been completed on Unit 2. Will be upgraded during the fall outage.	11/6/99 (fall outage)
	Site Emergency Response Data System (ERDS) — Provides a monitoring function as part of the emergency plan. A software upgrade is planned.	9/30/99
	Site Training Simulator—Used for operator training. System is being upgraded.	10/29/99
Public Service Electric & Gas—Hope Creek		
	Site Emergency Response Data System (ERDS)—Provides automated data transmission to the NRC as part of the emergency plan. This is being worked concurrently with the Salem upgrade. The latest version of the software will be installed.	9/30/99
	Site Training Simulator—Used for operator training. This is being worked concurrently with the Salem upgrade.	10/29/99
Southern Nuclear Operating Company—Farley 2		
	Unit 2 Turbine Digital Electro-Hydraulic (DEH) system—Needed for plant operation and will be upgraded during the fall outage. This upgrade has been successfully completed on Unit 1.	12/16/99 (fall outage)
STP Nuclear Operating Company—South TX Project 1 & 2		
	Unit 1 Integrated Computer System—A new, Y2K ready, system has been installed and tested. Final switch over of all systems to the new system is in progress.	10/31/99
	Unit 2 Integrated Computer System—A new, Y2K ready, system has been installed and tested. Final switch over of all systems to the new system is in progress.	10/31/99
TXU Electric—Comanche Peak 1 & 2		
	Unit 1 Condensate Polishing Programmable Logic Controller System—Used in secondary plant chemistry control. System will be modified during the fall outage. Identical modifications have been completed on Unit 2.	11/30/99 (fall outage)
	Site Plant training simulator. Used for operator training. A major upgrade is being conducted, to include Y2K readiness.	10/30/99

Vermont Yankee—Vermont Yankee	
Site Security Computer—Used to monitor selected functions. Compensatory measures are available if needed. Hardware and software are being replaced.	10/31/99
Refueling Platform—Only used during plant shutdowns. An upgrade is scheduled.	9/30/99
Plant Process Computer—Software has been remediated and testing is in progress.	9/30/99

Site Support Systems:

The following facilities have site support systems, within the scope of the industry program, that will be Y2K ready when the indicated remediation is completed. These support systems do not impact continued plant operation.

Company–Plant **Item–Impact.**	**Schedule** **Date**
American Electric Power—Cook 1 & 2	
Site Meteorological Information and Dispersion Assessment System (MIDAS)—Used for gathering weather information in support of the emergency plan. Alternate sources of weather data are available. Will install new computer and software.	10/30/99
GPU Nuclear Corporation—Oyster Creek	
Site Integrated Software System for Managing Personnel Radiation Exposure—Record system for tracking exposure, a function that could be performed manually.	9/30/99
Tennessee Valley Authority—Browns Ferry 2 & 3	
Site Health Physics Information Management System—Used for automated radiation exposure tracking, which can be performed manually. In training and implementation phase.	9/30/99
Site Nuclear Operations Management System—Used for automatic data logging, which can be performed manually. In implementation phase.	10/31/99
Tennessee Valley Authority—Sequoyah 1 & 2	
Site Health Physics Information Management System—Used for automated radiation exposure tracking, which can be performed manually. In training and implementation phase.	9/30/99

Site Nuclear Operations Management System--Used for automatic data logging, which can be performed manually. In implementation phase.	10/31/99
Tennessee Valley Authority--Watts Bar 1	
Site Health Physics Information Management System—Used for automated radiation exposure tracking, which can be performed manually. In training and implementation phase.	9/30/99
Site Nuclear Operations Management System—Used for automatic data logging, which can be performed manually. In implementation phase.	10/31/99

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