

October 29, 2003

Mr. Dominique Delattre  
Head, Regulatory Activities Unit  
IAEA INES/NEWS Coordinator  
International Atomic Energy Agency  
Wagramer Strasse 5, P.O. Box 100  
A-1400 Wien  
AUTRICHE

Dear Mr. Delattre:

The following operating experience reports from United States reactors are enclosed for your consideration for including in the AIRS database:

NRC Information Notice 2003-11: Leakage Found on Bottom-Mounted Instrumentation Nozzles

NRC Information Notice 2003-13: Steam Generator Tube Degradation at Diablo Canyon

NRC Information Notice 2003-14: Potential Vulnerability of Plant Computer Network to Worm Infection

NRC Information Notice 2003-15: Importance of Follow-up Activities in Resolving Maintenance Issues

NRC Information Notice 2003-17: Reduced Service Life of Automatic Switch Company (ASCO) Solenoid Valves with Buna-N Material

NRC Information Notice 2003-18: General Electric Type SBM Control Switches with Defective CAM Followers

NRC Information Notice 2003-19: Unanalyzed Condition of Reactor Coolant Pump Seal Leak-off Line During Postulated Fire Scenarios or Station Blackout

NRC Bulletin 2003-01: Potential Impact of Debris Blockage on Emergency Sump Recirculation at Pressurized-Water Reactors

NRC Bulletin 2003-02: Leakage from Reactor Pressure Vessel Lower Head Penetrations and Reactor Coolant Pressure Boundary Integrity

Each report is being submitted in the following two media: (1) a hard copy of the input file for the AIRS database; and (2) a 3.5-inch HD diskette containing the input file for the AIRS database in WordPerfect format.

If you have any questions regarding these reports, please call Jerry Dozier of my staff. He can be reached at 301-415-1014.

Sincerely,

**/RA/**

William D. Beckner, Chief  
Reactor Operations Branch  
Division of Inspection Program Management  
Office of Nuclear Reactor Regulation

Enclosures: As stated

cc w/enclosures:

Dr. Pekka T. Pyy  
Administrator, Operating Experience & Human Factors  
Nuclear Safety Division  
Nuclear Energy Agency  
OECD  
Le Seine St. Germain, Batiment B  
12, Boulevard des Iles  
92130 - Issy-les-Moulineaux  
FRANCE

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FRANCE

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ADAMS ACCESSION NUMBER: ML033040019

DOCUMENT NAME:

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OFFICE	RSE:OES:IROB:DIPM	IMA:OES:IROB:DIPM	SC:OES:IROB:DIPM	D:IROB:DIPM
NAME	IJDozier	KAGray	TReis	WDBeckner
DATE	10/28/2003	10/28/2003	10/28/2003	10/28/2003

**OFFICIAL RECORD COPY**

## INCIDENT REPORTING SYSTEM

IRS NO.	EVENT DATE	04/12/2003	DATE RECEIVED
EVENT TITLE			
NRC Information Notice 2003-11: Leakage Found on Bottom-Mounted Instrumentation Nozzles			
COUNTRY	PLANT AND UNIT	REACTOR TYPE	
USA	South Texas Project Unit 1	PWR	
INITIAL STATUS	RATED POWER (MWe NET)		
	N/A		
DESIGNER	1st COMMERCIAL OPERATION		
Westinghouse 4lp	03/22/1988		

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### ABSTRACT

The U.S. Nuclear Regulatory Commission (NRC) is issuing this information notice (IN) to alert addressees to indications of leakage in the form of boron deposits discovered on bottom-mounted instrumentation (BMI) nozzles at South Texas Project Unit 1 (STP Unit 1).

NRC INFORMATION NOTICE 2003-11

Please refer to the dictionary of codes corresponding to each of the sections below and to the coding guidelines manual.

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1.	<u>Reporting Categories:</u>	<u>1.4</u>	<u>1.2.2</u>	<u>          </u>
2.	<u>Plant Status Prior to the Event:</u>	<u>2.3.2</u>	<u>          </u>	<u>          </u>
3.	<u>Failed/Affected Systems:</u>	<u>3.AC</u>	<u>          </u>	<u>          </u>
4.	<u>Failed/Affected Components:</u>	<u>4.2.5</u>	<u>          </u>	<u>          </u>
5.	<u>Cause of the Event:</u>	<u>5.1.1.7</u>	<u>5.1.1.3</u>	<u>          </u>
6.	<u>Effects on Operation:</u>	<u>6.9</u>	<u>          </u>	<u>          </u>
7.	<u>Characteristics of the Incident:</u>	<u>7. 2</u>	<u>          </u>	<u>          </u>
8.	<u>Nature of Failure or Error:</u>	<u>8.1</u>	<u>          </u>	<u>          </u>
9.	<u>Nature of Recovery Actions:</u>	<u>9.0</u>	<u>          </u>	<u>          </u>

# INCIDENT REPORTING SYSTEM

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<b>IRS NO.</b>	<b>EVENT DATE</b>	<b>08/28/2003</b>	<b>DATE RECEIVED</b>
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## EVENT TITLE

NRC Information Notice 2003-13: Steam Generator Tube Degradation at Diablo Canyon

## COUNTRY

USA

## PLANT AND UNIT

Diablo Canyon Unit 2

## REACTOR TYPE

PWR

## INITIAL STATUS

## RATED POWER (MWe NET)

N/A

## DESIGNER

Westinghouse 4lp

## 1st COMMERCIAL OPERATION

08/26/1985

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## ABSTRACT

The U.S. Nuclear Regulatory Commission is issuing this information notice to inform addressees about findings from a recent steam generator tube inspection at the Diablo Canyon Power Plant, Unit 2.

NRC INFORMATION NOTICE 2003-13

Please refer to the dictionary of codes corresponding to each of the sections below and to the coding guidelines manual.

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1.	<u>Reporting Categories:</u>	<u>1.3</u>	<u>1.4</u>	<u>          </u>
2.	<u>Plant Status Prior to the Event:</u>	<u>2.3.2</u>	<u>          </u>	<u>          </u>
3.	<u>Failed/Affected Systems:</u>	<u>3.AH</u>	<u>          </u>	<u>          </u>
4.	<u>Failed/Affected Components:</u>	<u>4.2.4</u>	<u>          </u>	<u>          </u>
5.	<u>Cause of the Event:</u>	<u>5.1.1.7</u>	<u>5.3.1</u>	<u>          </u>
6.	<u>Effects on Operation:</u>	<u>6.9</u>	<u>          </u>	<u>          </u>
7.	<u>Characteristics of the Incident:</u>	<u>7.2</u>	<u>          </u>	<u>          </u>
8.	<u>Nature of Failure or Error:</u>	<u>8.2</u>	<u>          </u>	<u>          </u>
9.	<u>Nature of Recovery Actions:</u>	<u>9.0</u>	<u>          </u>	<u>          </u>

## INCIDENT REPORTING SYSTEM

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**IRS NO.**

**EVENT DATE**

**01/25/2003**

**DATE RECEIVED**

**EVENT TITLE**

NRC INFORMATION NOTICE 2003-14: Potential Vulnerability of Plant Computer Network to Worm Infection

**COUNTRY**

USA

**PLANT AND UNIT**

Nine Mile Point Unit 1

**REACTOR TYPE**

BWR

**INITIAL STATUS**

**RATED POWER (MWe NET)**

N/A

**DESIGNER**

GEC

**1st COMMERCIAL OPERATION**

12/01/1969

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**ABSTRACT**

The U.S. Nuclear Regulatory Commission (NRC) is issuing this information notice to alert addressees to the recent identification of a potential vulnerability of the plant computer network server to infection by the Microsoft (MS) SQL Server worm.



NRC INFORMATION NOTICE 2003-14

Please refer to the dictionary of codes corresponding to each of the sections below and to the coding guidelines manual.

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1.	<u>Reporting Categories:</u>	<u>1.4</u>	_____	_____
2.	<u>Plant Status Prior to the Event:</u>	<u>2.3.2.1</u>	_____	_____
3.	<u>Failed/Affected Systems:</u>	<u>3.1A</u>	_____	_____
4.	<u>Failed/Affected Components:</u>	<u>4.4.2</u>	_____	_____
5.	<u>Cause of the Event:</u>	<u>5.1.5.6</u>	<u>5.3.3</u>	_____
6.	<u>Effects on Operation:</u>	<u>6.0</u>	_____	_____
7.	<u>Characteristics of the Incident:</u>	<u>7.16</u>	_____	_____
8.	<u>Nature of Failure or Error:</u>	<u>8.4</u>	_____	_____
9.	<u>Nature of Recovery Actions:</u>	<u>9.1</u>	_____	_____

# INCIDENT REPORTING SYSTEM

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**IRS NO.**

**EVENT DATE**

**01/25/2003**

**DATE RECEIVED**

## **EVENT TITLE**

NRC INFORMATION NOTICE 2003-15: Importance of Follow-up Activities in Resolving Maintenance Issues

## **COUNTRY**

USA

## **PLANT AND UNIT**

South Texas Unit 2

## **REACTOR TYPE**

PWR

## **INITIAL STATUS**

## **RATED POWER (MWe NET)**

N/A

## **DESIGNER**

Westinghouse 4lp

## **1st COMMERCIAL OPERATION**

03/28/1989

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## **ABSTRACT**

The U.S. Nuclear Regulatory Commission (NRC) is issuing this information notice to alert addressees to recent experience that emphasizes the importance of followup activities in resolving maintenance issues in nuclear power plants.

NRC INFORMATION NOTICE 2003-15

Please refer to the dictionary of codes corresponding to each of the sections below and to the coding guidelines manual.

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1.	<u>Reporting Categories:</u>	<u>1.2.5</u>	<u>1.4</u>	<u>          </u>
2.	<u>Plant Status Prior to the Event:</u>	<u>2.3.2.1</u>	<u>          </u>	<u>          </u>
3.	<u>Failed/Affected Systems:</u>	<u>3.BE</u>	<u>          </u>	<u>          </u>
4.	<u>Failed/Affected Components:</u>	<u>4.2.3</u>	<u>          </u>	<u>          </u>
5.	<u>Cause of the Event:</u>	<u>5.3.1</u>	<u>5.4.7</u>	<u>          </u>
6.	<u>Effects on Operation:</u>	<u>6.9</u>	<u>          </u>	<u>          </u>
7.	<u>Characteristics of the Incident:</u>	<u>7.8</u>	<u>          </u>	<u>          </u>
8.	<u>Nature of Failure or Error:</u>	<u>8.3</u>	<u>          </u>	<u>          </u>
9.	<u>Nature of Recovery Actions:</u>	<u>9.1</u>	<u>          </u>	<u>          </u>

## INCIDENT REPORTING SYSTEM

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<b>IRS NO.</b>	<b>EVENT DATE</b>	<b>9/1/2002</b>	<b>DATE RECEIVED</b>
<b>EVENT TITLE</b>			
NRC INFORMATION NOTICE 2003-17: Reduced Service Life of Automatic Switch Company (ASCO) Solenoid Valves with Buna-N Material			
<b>COUNTRY</b>	<b>PLANT AND UNIT</b>	<b>REACTOR TYPE</b>	
USA	Dresden, Unit 2	BWR	
<b>INITIAL STATUS</b>	<b>RATED POWER (MWe NET)</b>		
	N/A		
<b>DESIGNER</b>	<b>1st COMMERCIAL OPERATION</b>		
GE-3MK1	02/20/1991		

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### ABSTRACT

The U.S. Nuclear Regulatory Commission (NRC) is issuing this information notice to alert addressees to potential problems caused by the hardening of Buna-N material used in fabricating solenoid valves manufactured by Automatic Switch Company (ASCO).

NRC INFORMATION NOTICE 2003-17

Please refer to the dictionary of codes corresponding to each of the sections below and to the coding guidelines manual.

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- |  |                |                   |                   |
|--|----------------|-------------------|-------------------|
| 1. <u>Reporting Categories:</u>            | <u>1.2.4</u>   | <u>1.4</u>        | <u>          </u> |
| 2. <u>Plant Status Prior to the Event:</u> | <u>2.3.2.1</u> | <u>          </u> | <u>          </u> |
| 3. <u>Failed/Affected Systems:</u>         | <u>3.AB</u>    | <u>          </u> | <u>          </u> |
| 4. <u>Failed/Affected Components:</u>      | <u>4.2.3</u>   | <u>          </u> | <u>          </u> |
| 5. <u>Cause of the Event:</u>              | <u>5.1.1.9</u> | <u>          </u> | <u>          </u> |
| 6. <u>Effects on Operation:</u>            | <u>6.9</u>     | <u>          </u> | <u>          </u> |
| 7. <u>Characteristics of the Incident:</u> | <u>7.13</u>    | <u>          </u> | <u>          </u> |
| 8. <u>Nature of Failure or Error:</u>      | <u>8.3</u>     | <u>          </u> | <u>          </u> |
| 9. <u>Nature of Recovery Actions:</u>      | <u>9.1</u>     | <u>          </u> | <u>          </u> |

# INCIDENT REPORTING SYSTEM

<b>IRS NO.</b>	<b>EVENT DATE</b>	<b>01/5/2003</b>	<b>DATE RECEIVED</b>
<b>EVENT TITLE</b>			
NRC INFORMATION NOTICE 2003-18: General Electric Type SBM Control Switches with Defective CAM Followers			
<b>COUNTRY</b>	<b>PLANT AND UNIT</b>	<b>REACTOR TYPE</b>	
USA	Calvert Cliffs Unit 1	PWR	
<b>INITIAL STATUS</b>	<b>RATED POWER (MWe NET)</b>		
	N/A		
<b>DESIGNER</b>	<b>1st COMMERCIAL OPERATION</b>		
CE	07/31/1974		

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## ABSTRACT

The U.S. Nuclear Regulatory Commission (NRC) is issuing this information notice to inform addressees of recent and long-term operational experience with control switches and relays incorporating a polycarbonate plastic material manufactured by General Electric known as Lexan®.

NRC INFORMATION NOTICE 2003-18

Please refer to the dictionary of codes corresponding to each of the sections below and to the coding guidelines manual.

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1.	<u>Reporting Categories:</u>	<u>1.2.5</u>	<u>1.4</u>	<u>          </u>
2.	<u>Plant Status Prior to the Event:</u>	<u>2.3.2.1</u>	<u>          </u>	<u>          </u>
3.	<u>Failed/Affected Systems:</u>	<u>3.EF</u>	<u>3.EB</u>	<u>3.CB</u>
4.	<u>Failed/Affected Components:</u>	<u>4.3.2</u>	<u>          </u>	<u>          </u>
5.	<u>Cause of the Event:</u>	<u>5.7.2</u>	<u>5.4.5</u>	<u>          </u>
6.	<u>Effects on Operation:</u>	<u>6.9</u>	<u>          </u>	<u>          </u>
7.	<u>Characteristics of the Incident:</u>	<u>7.4</u>	<u>          </u>	<u>          </u>
8.	<u>Nature of Failure or Error:</u>	<u>8.3</u>	<u>          </u>	<u>          </u>
9.	<u>Nature of Recovery Actions:</u>	<u>9.1</u>	<u>          </u>	<u>          </u>

## INCIDENT REPORTING SYSTEM

<b>IRS NO.</b>	<b>EVENT DATE</b>	<b>01/13/2003</b>	<b>DATE RECEIVED</b>
<b>EVENT TITLE</b>			
NRC INFORMATION NOTICE 2003-19: Unanalyzed Condition of Reactor Coolant Pump Seal Leak-off Line During Postulated Fire Scenarios or Station Blackout			
<b>COUNTRY</b>	<b>PLANT AND UNIT</b>	<b>REACTOR TYPE</b>	
USA	Millstone Unit 3	PWR	
<b>INITIAL STATUS</b>	<b>RATED POWER (MWe NET)</b>		
	N/A		
<b>DESIGNER</b>	<b>1st COMMERCIAL OPERATION</b>		
Westinghouse 4lp	01/31/1986		

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### ABSTRACT

The U.S. Nuclear Regulatory Commission (NRC) is issuing this information notice (IN) to alert addressees to the recent identification of an unanalyzed condition involving the design of the reactor coolant pump (RCP) seal leakoff line.



NRC INFORMATION NOTICE 2003-19

Please refer to the dictionary of codes corresponding to each of the sections below and to the coding guidelines manual.

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- |  |              |                   |                   |
|--|--------------|-------------------|-------------------|
| 1. <u>Reporting Categories:</u>            | <u>1.3.1</u> | <u>1.4</u>        | <u>          </u> |
| 2. <u>Plant Status Prior to the Event:</u> | <u>2.0</u>   | <u>          </u> | <u>          </u> |
| 3. <u>Failed/Affected Systems:</u>         | <u>3.AE</u>  | <u>          </u> | <u>          </u> |
| 4. <u>Failed/Affected Components:</u>      | <u>4.2.6</u> | <u>          </u> | <u>          </u> |
| 5. <u>Cause of the Event:</u>              | <u>5.7.1</u> | <u>          </u> | <u>          </u> |
| 6. <u>Effects on Operation:</u>            | <u>6.0</u>   | <u>          </u> | <u>          </u> |
| 7. <u>Characteristics of the Incident:</u> | <u>7.5</u>   | <u>          </u> | <u>          </u> |
| 8. <u>Nature of Failure or Error:</u>      | <u>8.1</u>   | <u>          </u> | <u>          </u> |
| 9. <u>Nature of Recovery Actions:</u>      | <u>9.0</u>   | <u>          </u> | <u>          </u> |

## INCIDENT REPORTING SYSTEM

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IRS NO.	EVENT DATE	12/11/2002	DATE RECEIVED
<b>EVENT TITLE</b>			
NRC Bulletin 2003-01: Potential Impact of Debris Blockage on Emergency Sump Recirculation at Pressurized-Water Reactors			
<b>COUNTRY</b>	<b>PLANT AND UNIT</b>	<b>REACTOR TYPE</b>	
USA	Davis Besse	PWR	
<b>INITIAL STATUS</b>	<b>RATED POWER (MWe NET)</b>		
	N/A		
<b>DESIGNER</b>	<b>1st COMMERCIAL OPERATION</b>		
B&W	04/22/1977		

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### **ABSTRACT**

The U.S. Nuclear Regulatory Commission (NRC) is issuing this bulletin to: (1) inform addressees of the results of NRC-sponsored research identifying the potential susceptibility of pressurized-water reactor (PWR) recirculation sump screens to debris blockage in the event of a high-energy line break (HELB) requiring recirculation operation of the emergency core cooling system (ECCS) or containment spray system (CSS); (2) inform addressees of the potential for additional adverse effects due to debris blockage of flowpaths necessary for ECCS and CSS recirculation and containment drainage.

NRC BULLETIN 2003-01

Please refer to the dictionary of codes corresponding to each of the sections below and to the coding guidelines manual.

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1.	<u>Reporting Categories:</u>	<u>1.2</u>	<u>1.4</u>	<u>1.2.5</u>
2.	<u>Plant Status Prior to the Event:</u>	<u>2.3.2</u>	<u>          </u>	<u>          </u>
3.	<u>Failed/Affected Systems:</u>	<u>3.BG</u>	<u>          </u>	<u>          </u>
4.	<u>Failed/Affected Components:</u>	<u>4.2.1</u>	<u>          </u>	<u>          </u>
5.	<u>Cause of the Event:</u>	<u>5.1.1.8</u>	<u>          </u>	<u>          </u>
6.	<u>Effects on Operation:</u>	<u>6.10</u>	<u>          </u>	<u>          </u>
7.	<u>Characteristics of the Incident:</u>	<u>7.4</u>	<u>          </u>	<u>          </u>
8.	<u>Nature of Failure or Error:</u>	<u>8.3</u>	<u>          </u>	<u>          </u>
9.	<u>Nature of Recovery Actions:</u>	<u>9.0</u>	<u>          </u>	<u>          </u>

# INCIDENT REPORTING SYSTEM

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<b>IRS NO.</b>	<b>EVENT DATE</b>	<b>04/12/2003</b>	<b>DATE RECEIVED</b>
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## EVENT TITLE

NRC Bulletin 2003-02: Leakage from Reactor Pressure Vessel Lower Head Penetrations and Reactor Coolant Pressure Boundary Integrity

### COUNTRY

USA

### PLANT AND UNIT

South Texas Project Unit 1

### REACTOR TYPE

PWR

### INITIAL STATUS

### RATED POWER (MWe NET)

N/A

### DESIGNER

Westinghouse 4lp

### 1st COMMERCIAL OPERATION

03/22/1988

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## ABSTRACT

The U.S. Nuclear Regulatory Commission (NRC) is issuing this bulletin to advise PWR addressees that current methods of inspecting the reactor pressure vessel lower heads may need to be supplemented with additional measures (e.g., bare-metal visual inspections) to detect reactor coolant pressure boundary (RCPB) leakage.

NRC BULLETIN 2003-02

Please refer to the dictionary of codes corresponding to each of the sections below and to the coding guidelines manual.

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1.	<u>Reporting Categories:</u>	<u>1.4</u>	<u>1.2.2</u>	<u>          </u>
2.	<u>Plant Status Prior to the Event:</u>	<u>2.3.2</u>	<u>          </u>	<u>          </u>
3.	<u>Failed/Affected Systems:</u>	<u>3.AC</u>	<u>          </u>	<u>          </u>
4.	<u>Failed/Affected Components:</u>	<u>4.2.5</u>	<u>          </u>	<u>          </u>
5.	<u>Cause of the Event:</u>	<u>5.1.1.7</u>	<u>5.1.1.3</u>	<u>          </u>
6.	<u>Effects on Operation:</u>	<u>6.9</u>	<u>          </u>	<u>          </u>
7.	<u>Characteristics of the Incident:</u>	<u>7. 2</u>	<u>          </u>	<u>          </u>
8.	<u>Nature of Failure or Error:</u>	<u>8.1</u>	<u>          </u>	<u>          </u>
9.	<u>Nature of Recovery Actions:</u>	<u>9.0</u>	<u>          </u>	<u>          </u>