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October 21, 1994

2CAN109404

U. S. Nuclear Regulatory Commission
Document Control Desk
Mail Station P1-137
Washington, DC 20555

PROPRIETARY
INFORMATION
ATTACHED

Subject: Arkansas Nuclear One - Unit 2
Docket No. 50-368
License No. NPF-6
Amendment Number 12 to the ANO-2 Updated Safety Analysis Report

Gentlemen:

In accordance with 10CFR50.71(e) and 10CFR50.4(b)(6), 10 copies of Amendment 12 of the Arkansas Nuclear One, Unit 2 (ANO-2) Safety Analysis Report (SAR) are enclosed (Controlled Copies II-102 through II-111). As described in our letter of July 22, 1994, (1CAN079404), this submittal is being submitted within the six months following the end of the tenth ANO-2 refueling outage (2R10). A summary of 10CFR50.59 evaluations associated with Amendment 12 of the ANO-2 SAR will be provided under a separate cover letter at a later date as part of the 10CFR50.59 Report.

ANO-2 SAR Figure 4.2-16, "In-Core Instrument Assembly," a drawing considered proprietary by ABB Combustion Engineering, is being revised in this amendment. This information is being submitted under Imaging and Sensing Technology Affidavit pursuant to 10CFR2.790 (Attachment 1). Ten copies of this drawing are included in Attachment 2 for manuals II-102 through II-111. Please add these drawings to the proprietary volume (XVI) for each ANO-2 SAR.

As required by 10CFR50.71(e)(2), I hereby certify that to the best of my knowledge and belief, the information contained in Amendment 12 to the ANO-2 SAR accurately represents changes made since the previous update. The changes to the SAR reflect information and analyses submitted to the Commission, prepared pursuant to Commission requirements, or made under provisions of 10CFR50.59.

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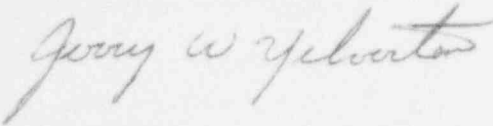
U. S. NRC

October 21, 1994

2CAN109404 Page 2

This amendment package also contains a replacement page instruction listing (Attachment 3) as well as the revised SAR materials pertaining to ANO-2.

Very truly yours,



JWY/kjm

Attachments

cc: Mr. Leonard J. Calian
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AFFIDAVIT FOR ABB COMBUSTION ENGINEERING

DRAWING 310-0101



PROPRIETARY INFORMATION DISCLOSURES

Imaging and Sensing Technology (hereinafter referred to as IST) is in the possession of proprietary information which may include, for example, data, know-how, formulae, designs, sketches, photographs, plans, drawings, specifications, reports, studies, findings, inventions and/or ideas which IST treats as secret and confidential, and which is directed to the following subject:

IST Drawing 310-0101 Sheet 1, Rev. 3 "In-Core Instrument Assembly" to be incorporated into ANO-2's revised Safety Analysis Report for submission to the NRC.

IST agrees to disclose and impart such information to your representatives and/or to you directly (hereinafter collectively called "Recipient") subject to the terms and conditions hereinafter set forth, for the following purpose:

For and in consideration of the mutual undertakings by IST and the Recipient, it is hereby agreed:

1. Recipient shall employ all reasonable efforts to maintain the information so disclosed or imparted secret and confidential, and to refrain from divulging such information to others, such efforts to be no less than the degree of care employed by Recipient to preserve and safeguard its own secret and confidential information.
2. Recipient shall not use the information so disclosed or imparted for any purpose except for the particular purpose set forth above, or except in accordance with any formal agreement pertaining to such information that might be negotiated with IST subsequently.
3. Any proprietary information disclosed by IST to Recipient shall be clearly marked with a stamp or legend identifying the material as proprietary. Any proprietary information which is orally disclosed shall be subsequently identified in writing by IST within thirty (30) days of the oral disclosure.
4. Nothing contained herein shall deprive Recipient of the right to use or disclose in any manner information which:
a) is or becomes publicly known through no wrongful act of the Recipient; b) is contained in any published patent application or patent or becomes published or otherwise generally known to the trade through no wrongful act of the Recipient, from and after the date it becomes published or generally known; c) is received from a third party who has the right to disclose without restriction and through no wrongful act of the Recipient; d) is



Proprietary Information Disclosures (cont'd)

independently developed by Recipient without reliance on any information supplied under this agreement; e) is approved for release by written authorization of IST from and after the date hereof.

5. It is mutually understood that nothing herein contained shall be construed as granting or implying any right under any patent or other statutory industrial property right or to use any invention covered thereby.

This document is prepared in duplicate and when signed by IST and accepted by Recipient, shall constitute a legally binding agreement.

Imaging and Sensing Technology
Organization

By R. Menzies

Date Oct 14/94

ACCEPTED AND AGREED TO BY RECIPIENT:

ENERGY OPERATIONS - AND-2
Organization

By [Signature]

Date 10/19/94

ATTACHMENT TO UPDATED SAR AMENDMENT NUMBER 12

FACILITY OPERATING LICENSE NUMBER NPF-6

DOCKET NUMBER 50-368

This attachment lists replacement and additional pages for the subject SAR which will remain in effect for subsequent versions and modifications, unless specifically altered.

A change is indicated by beginning the affected information with a revision bar on the left side of the page which stops at the end of the change. Deletions of entire paragraphs or sections have a revision bar to the left of the page where text was deleted. The amendment number is indicated at the bottom of the affected page near the left margin (Amendment No. 12). Absence of a revision bar on a replacement page means the page was reprinted for word processing purposes only. Due to a change on fonts, all of the sections in Amendment 12 have been reissued and have Amendment 12 indicated on the bottom page.

Unit 2
Amendment
Page Replacement Instructions

Text Changes

Master Table of Contents

Remove entire Table of Contents and replace with new Master Table of Contents labeled Amendment 12.

Chapters 1-17 and Appendices 9A - 9D

All text pages are to be removed beginning with the first page of each chapter's table of contents through the last page of each chapter's table section. Replace with the corresponding Amendment 12 chapter information. Special filing instructions are listed below.

Chapter 3: Table 3.2-6 through the end of the table section for Chapter 3 should be filed behind the "Q-List" tab and should completely replace the information filed previously behind that tab.

Chapter 4B: This is a new chapter and does not have a tab. Please file this information in its entirety behind Chapter 4A.

Figure Changes

Remove only the figures listed for each chapter. Replace them with correspondingly numbered figures designated Amendment 12 unless otherwise instructed. All other figures remain the same as in the previous amendment.

Chapters 1 and 2

All figures remain the same as in the previous amendment.

Chapter 3

Figure 3.2-1 Sheet 1
Figure 3.2-3 Sheet 2
Figure 3.2-4 Sheets 1, 3, & 4
Figure 3.2-5 Sheet 2
Figure 3.2-6 Sheets 1 & 2
Figure 3.5-9
Figure 3.5-16

Figure Changes (continued)

Chapter 4

Figure 4.2-16

Chapters 4A & 4B

Remove the entire figure sections for these chapters and replace with the enclosed figures designated for Amendment 12 of these chapters. The figure numbers will not necessarily correspond.

Chapter 5

Figure 5.1-3 Sheets 1 & 2

Figure 5.5-2 Sheet 1

Chapter 6

Figure 6.2-16

Figure 6.2-17 Sheet 1

Figure 6.3-2

Figure 6.5-1

Chapter 7

Figure 7.2-2

Figure 7.2-11

Figure 7.2-14

Figure 7.2-21

Figure 7.2-29

Figure 7.2-30

Figure 7.2-42

Figure 7.2-54

Figure 7.2-55

Figure 7.2-56

Figure 7.2-57

Figure 7.3-7 Sheets 1 & 2

Figure 7.3-9 Sheets 1 & 3

Figure 7.3-10 Sheet 1

Figure 7.3-11

Figure 7.3-12 Sheet 2

Figure 7.4-1 Sheets 3, 4, 5, & 7

Figure 7.4-3

Chapter 8

Figure 8.2-2
Figure 8.2-3
Figure 8.3-1
Figure 8.3-3
Figure 8.3-4
Figure 8.3-5
Figure 8.3-6
Figure 8.3-7
Figure 8.3-9
Figure 8.3-12
Figure 8.3-13
Figure 8.3-16
Figure 8.3-18 Sheet 1
Figure 8.3-20
Figure 8.3-21
Figure 8.3-22
Figure 8.3-23
Figure 8.3-24
Figure 8.3-25
Figure 8.3-26
Figure 8.3-27 Sheet 2
Figure 8.3-28
Figure 8.3-30 Sheet 1
Figure 8.3-32
Figure 8.3-33
Figure 8.3-34 Sheet 1
Figure 8.3-35 Sheets 1 & 2
Figure 8.3-36
Figure 8.3-39 Sheets 1 & 1A
Figure 8.3-40 Sheets 1 & 1A
Figure 8.3-42 Sheet 1; Sheets 1A & 1B are new SAR figures and should be added
after Sheet 1 of this figure.
Figure 8.3-43
Figure 8.3-44 Sheets 1, 1A, & 1B
Figure 8.3-45 should be removed and replaced with Figure 8.3-45 Sheets 1A & 1B
Figure 8.3-47
Figure 8.3-49 Sheets 1, 1A, & 2
Figure 8.3-50 Sheets 3 & 3B
Figure 8.3-51 Sheets 2, 2A, 2E, & 2F
Figure 8.3-52 Sheet 3
Figure 8.3-54
Figure 8.3-56
Figure 8.3-59

Chapter 8 Figure Changes (continued)

Figure 8.3-60
Figure 8.3-61
Figure 8.3-62
Figure 8.3-66
Figure 8.3-67
Figure 8.3-108 Sheets 1, 1A, 1B, 1C, 1D, 1E, 1F, & 1G
Figure 8.3-109 Sheets 2, 4, 5, & 6

Chapter 9

Figure 9.1-1
DWG. No. M-2210 Figure 9.2-1 Sheets 1, 2, & 3
Figure 9.2-6 Sheets 1 & 2
DWG. No. M-2212 Figure 9.2-7 Sheets 1, 2, 3, & 5
Figure 9.3-1 Sheets 1, 3, 4, & 5
Figure 9.3-2 Sheets 1, 2, 4, & 5
Figure 9.3-3 Sheets 2, 3, & 6
Figure 9.3-4 Sheets 1 & 2
Figure 9.4-1 Sheets 1 & 4
Figure 9.4-2 Sheets 1, 2, & 3
Figure 9.4-4 Sheets 1, 2, & 3
Figure 9.4-6
Figure 9.5-1 Sheets 2 & 5
Figure 9.5-8 Sheets 1, 2, & 3

Chapter 10

Figure 10.2-3 Sheets 1 & 2
Figure 10.2-4 Sheets 1, 2, & 4
Figure 10.2-5 Sheets 1 & 2
Figure 10.3-1
Figure 10.4-1
Figure 10.4-2 Sheets 1, 2, 4, & 5
Figure 10.4-3 Sheets 1, 2, & 3
Figure 10.4-5
Figure 10.4-7

Chapter 11

Figure 11.2-1 Sheets 1, 2, 4, 6, & 8
Figure 11.2-2 Sheets 1 & 2
Figure 11.2-3 Sheets 1 & 2
Figure 11.3-1
Figure 11.5-1

Chapters 12, 13, 14, & 15

All figures remain the same as in the previous amendment.

Chapters 16 & 17

These chapters do not contain figures.

Proprietary Volume

Figure 4.2-16 should be removed and replaced with Amendment 12 figure for the controlled copy sets which contain the proprietary volume.