



52-003

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NSD-NRC-96-4722  
DCP/NRC0514  
Docket No.: STN-52-003

May 14, 1996

Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

ATTENTION: QUAY

SUBJECT: DOCUMENTS IN SUPPORT OF MAY 21-22, 1996 MEETING WITH  
HUMAN FACTORS BRANCH

Dear Mr. Quay:

Enclosed, are documents for use by the Human Factors Branch in support of the review of SSAR Chapter 18. This information is provided for the Staff review as part of the AP600 Design Certification Application.

Westinghouse has provided this material in preparation for the May 21, 1996 meeting with the Human Factors Branch. The purpose of this meeting is to discuss this material so that final versions can be submitted. Several of these documents are drafts and may change before becoming part of an SSAR revision. The documents provided include:

WCAP-14655,	Designer's Input for the Training of the Human Factors Engineering Verification and Validation Personnel
Draft WCAP-14651,	Integration of Human Reliability Analysis with Human Factors Engineering Design Implementation Plan, DRAFT
Draft WCAP-14645,	Human Factors Engineering Operating Experience Review Report for the AP600 Nuclear Power Plant
Draft WCAP-14644,	AP600 Functional Requirements Analysis and Function Allocation
Draft SSAR Subsection 18.8.9,	The AP600 Training Program
Draft SSAR Subsection 13.2,	Training
Draft SSAR Subsection 13.2.1,	Combined License Information Item

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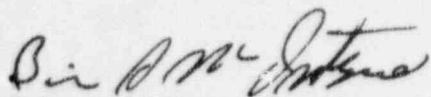
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A mapping of the documents with DSER open items has also been provided. Please contact Susan V. Fanto on (412) 374-4028 if you have any questions concerning this transmittal.



Brian A. McIntyre, Manager  
Advanced Plant Safety and Licensing

/nja

Attachment

cc: W. Huffman, NRC  
J. Bongarra, NRC, 3 attachments  
N. J. Liparulo, Westinghouse (w/o Enclosure)  
J. O'Hara, Brookhaven National Labs

#### 18.9.9 The AP600 Training Program

As stated in section 13.2, personnel training is a Combined License applicant responsibility. This includes the training of the operations personnel who participate as subjects in the Human Factors Engineering verification and validation. WCAP-14655, "Designer's Input to The Training of The Human Factors Engineering Verification and Validation Personnel" (Reference \_\_\_\_\_), describes input from the designer on the training of the operations personnel who participate as subjects in the Human Factors Engineering (HFE) Verification and Validation. This WCAP is provided as input for the Combined Licensed applicant. The WCAP document also describes how training insights are passed from the designer to the Combined License applicant.

## 13.2 Training

This section is the responsibility of the Combined License applicant. Chapter 18, Subsection 18.9.9 references WCAP ~~1455~~, "Designer's Input for the Training of The Human Factors Engineering Verification and Validation Personnel" that provides input for the Combined License applicant. This document describes input from the designer on the training of the operations personnel who participate as subjects in the Human Factors Engineering (HFE) Verification and Validation. The WCAP document also describes how training insights are passed from the designer to the Combined License applicant. ~~describes the approach for training the operations personnel to be used for the Human Factors Engineering Verification and Validation.~~

### 13.2.1 Combined License Information Item

Combined License applicants referencing the AP600 certified design will develop and implement training programs for plant personnel. This includes the training program for the operations personnel who participate as subjects in the Human Factors Engineering Verification and Validation.

The following provides a mapping of the chapter 18 DSER element 2 (Operating Experience Review - OER) open items to the section of the Human Factors Engineering Operating Experience Review Report for the AP600 Nuclear Power Plant (WCAP-14645) where the item is addressed:

<b>Open Item (OI) Number</b>	<b>Location in the Report Where OI is Addressed</b>
18.3.3.1-1	Section 1.0 and 2.0
18.3.3.1-2	Section 2.0
18.3.3.1-3	Section 4.0 and Table 2
18.3.3.1-4	Section 5.0 and Table 3
18.3.3.2-1	Section 2.0, 3.0 and Table 1
18.3.3.2-2	This OER report provides the documentation.
18.3.3.2-3	Column 5 of Table 1, and column 3 of tables 2 and 3 identify those issues to be entered into the design issues tracking system.

The following provides a mapping of the four "new" element 3 (Functional Requirements Analysis and Function Allocation) open items that were identified in the document attached to the NRC letter of May 15, 1995, docket No. 52-003 to the section of WCAP-14644 where the open item is addressed. Part 1, page 2 of the NRC document maps the "new" open items to the chapter 18 element 3 DSER open items.

<b>"New" Open Item</b>	<b>OITS Item number</b>	<b>WCAP Location Where OI is Addressed</b>
1 (2 DSER OIs)	2465	Section 1.0, 2.1, and 3.1
2 (7 DSER OIs)	2466	Section 2.0 and Tables 1, 2, and 3
3 (7 DSER OIs)	2467	Section 3.0, 4.1 and Tables 3, 4, and 5
4 (3 DSER OIs)	2468	Section 4.0

The following maps the remaining chapter 18 element 6 (Human Reliability Analysis) DSER open items to the location in the "Integration of Human Reliability Analysis with Human Factors Engineering Design Implementation Plan" document (WCAP-14651) where the item is addressed:

<b>DSER Open Item</b>	<b>Location Where the OI is Addressed</b>
18.7.3-2	Section 2.0
18.7.3-5	Section 1.0

The following maps the remaining chapter 18 element 9 (Training Program Development) open items to the location in the AP600 SSAR where the item is addressed:

<b>Meeting Open Item From OITS Database</b>	<b>Location where the Item is Addressed</b>
2061	SSAR 13.2, 18.9.9 and WCAP-14655
2062	WCAP-14655