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Philadelphia Electric Company  
2301 Market Street S25-1  
Philadelphia, PA 19101

Attention: V. S. Boyer, Sr. Vice President Nuclear Power

Gentlemen:

The enclosed status report is the seventh issued for the Independent Design Review of the Limerick Generating Station Unit 1 Core Spray System. This report covers the period August 16, 1984 to August 31, 1984.

A copy of this report is being sent directly to the representative of the U. S. Nuclear Regulatory Commission.

Please call me if you have any questions regarding the contents of this report.

Sincerely,

F. D. Carpenter  
Project Manager

cc: PECO: R. A. Mulford N2-1  
E. C. Kistner  
J. Moskowitz  
L. B. Pyrih  
G. J. Beck

Bechtel: S. J. Ployhar

USNRC: J. M. Milhoan, Chief Licensing Section  
Quality Assurance Branch, Office of Inspection  
and Enforcement  
U. S. Nuclear Regulatory Commission EWS-305A  
Washington, DC 20555

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cc: Judge Lawrence Brenner (w/enclosure)  
Judge Peter A. Morris (w/enclosure)  
Judge Richard F. Cole (w/enclosure)  
Judge Christine M. Kohl (w/enclosure)  
Judge Gary J. Edles (w/enclosure)  
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Atomic Safety & Licensing Board Panel (w/enclosure)  
Docket & Service Section (w/enclosure - 3 copies)  
James Wiggins (w/enclosure)  
Timothy R. S. Campbell (w/enclosure)

INDEPENDENT DESIGN REVIEW  
OF LIMERICK GENERATING STATION #1  
CORE SPRAY SYSTEM

Bi-Monthly Status Report #7  
Period Ending August 31, 1984

Introduction

This is the seventh bi-monthly status report. This report documents information concerning the independent design review of Limerick's Core Spray System. The work performed covers the period August 16, 1984 to August 31, 1984.

Summary

TASK A DESIGN PROCEDURE REVIEW

Complete.

TASK B DESIGN PROCEDURE IMPLEMENTATION REVIEW

Subtasks B1 through B3 are complete.

B4 The review of documents from the original workscope was completed. Work is in progress to review documents for the expanded Task C workscope.

B5 The summary report was drafted but issuance is being held until the review associated with the expanded workscope is completed.

TASK C TECHNICAL REVIEW

Subtasks C1 and C2 are complete.

C3 No change.

C4 The initial review of the original work scope has been completed. Design documents were obtained from BPC for the review of local containment areas, and the review is in progress.

C5 Independent calculations were prepared to assess the impact of two PFRs. These calculations were completed and checked, and will be attached to the respective PFRs.

C6 The first drafts of most review evaluation reports have been completed. The task summary report will be based on these drafts. Final reports are generally completed after final classification of any PFRs affecting the subject of the report has been made.

#### TASK D PHYSICAL VERIFICATION

All work on Task D is complete.

#### TASK E POTENTIAL FINDINGS

Tasks E1 through E3 are complete.

During this reporting period six potential finding reports were initiated. Two of these were issued on Task A, and related to review and approval of design documents. Four PFRs on Task C related to analytical inconsistencies.

The Findings Review Committee convened during this period and classified eight PFRs.

#### TASK F ADMINISTRATIVE AND REPORTING

The summary of projected vs. actual manpower graph was reviewed, and is attached hereto.

Total manhours spent on Task D will exceed the original estimate because of the work required for review of audit programs in the area of design control. This was not part of the original proposal workscope or estimate, and required considerable time at PECO, Bechtel, and GE sites.

August 31, 1984

TABLE I  
CORE SPRAY SYSTEM  
INDEPENDENT DESIGN REVIEW  
TASK/MILESTONE STATUS

Milestone	Subject	Orig	Schedule		Document
			Revised	Actual	
A1	Procedure Checklist	5/30		5/24	2524-PD-1 & 7
A2	Procedure Structure	6/15		7/08	2524-QA-01,05,07,13
A3	Access Design Procedures	6/15		7/06	NA
A4	Bechtel Review	7/05		7/03	TPT:012:FDC:84
A5	PECo/GE Review	7/05		7/05	2524-QA-01, 05, 07
A6	Time-period Procedures	7/10		7/10	2524-QA-12, 14, 15
A7	Task Summary	7/24		7/27	2524-QA-11
B1	Procedure/Checklist	5/30		5/24	2524-PD-2
B2	Document Selection	6/15	7/27	7/27	
B3	Document Location	7/01	7/27	7/27	
B4	Document Review	7/27	9/7		
B5	Task Summary	8/10	9/14		
C1	Procedure/Criteria	5/30		5/30	2524-PD-3
C2	Design Chain	6/08	7/31	7/31	
C3	Feature Selection	Cont			2524:ENG:02:AS:84
C4	Design Review	8/10	9/7		
C5	Independent Analysis	7/27	8/24		
C6	Task Summary	8/17	9/14		
D1	Walkdown Procedure	5/30		5/31	2524-PD-4
D2	Item Selection	6/04		5/29	2524:ENG:03:AS:84
D3	Complete Walkdown	6/27		6/15	
D4	Task Summary	8/10		6/22	2524:ENG:07:CFD:84
E1	Establish Committee	5/30		5/18	Proj.Directive #3
E2	Define Criteria	5/30		5/25	2524-PD-5
E3	Procedure	5/30		5/30	2524-PD-5
E4	Processing PFRs	cont	9/21		
F1	Management/cost	cont			Proj.Directive #1
F2	Protocol Procedure	6/01		6/01	2524-PD-6
F3	Status Report #1	6/01		5/31	TPT:005:FDC:84
	Status Report #2	6/15		6/15	TPT:012:FDC:84
	Status Report #3	7/01		7/02	TPT:018:FDC:84
	Status Report #4	7/15		7/16	TPT:023:FDC:84
	Status Report #5	8/01		8/01	TPT:029:FDC:84
	Status Report #6	8/15		8/15	TPT:034:FDC:84
	Status Report #7	9/04		9/04	TPT:045:FDC:84
	Status Report #8	9/17			
	Status Report #9	10/1			
F4	Information Compilation	8/15	9/21		
F5	Final Report Draft	8/24	10/5		
F6	Final Report-Issue	8/31	10/12		



