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February 14, 1980

Mr. Stefan S. Pawlicki, Chief
Materials Engineering Branch
Division of Systems Safety
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Steve:

Enclosed is the January monthly report on Battelle's
licensing assistance for NRC-MTEB.

Sincerely,

Richard D. Widrig
Program Manager

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Enclosure

cc: BL Grenier, NRC
J Halapatz, NRC
B Turovlin, NRC

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BATTELLE LICENSING ASSISTANCE
FOR
NRC MATERIALS ENGINEERING

MONTHLY REPORT: JANUARY 1980

PROGRAM OBJECTIVE

Provide technical assistance to DSS-MTEB in preparing Safety Evaluation Report sections in response to the review and evaluation of Safety Analysis Reports submitted by utility applicants. Currently eight tasks are assigned to Battelle.

SUMMARY

With the additional interim funding from the NRC (\$250K) activities on this program are increasing. While initial milestones for the early plants have been delayed one to three months due to the late start, it is expected that the later milestones will be nearly achieved on schedule barring major questions arising from the analyses.

The in-service inspection work is at a virtual halt due to the lack of pre-service inspection plans from any of the applicants other than LaSalle. This has contributed substantially to the present underrun in expected costs. NRC staff are aware of this problem, and are attempting to resolve it.

TASK 1 - FERMI 2

1.1 Fracture Mechanics (Cybulskis - BCL): Review of the Fermi 1 FSAR has raised questions regarding the conformance with Appendix G and H requirements as well as the criteria used to evaluate this conformance. These questions have been provided to the NRC. Additional information previously requested from the NRC has been reviewed and is being factored into the review. The draft SER should be submitted in February.

1.2 In-Service Inspection (Taylor - L): The Applicant's pre-service program is not available, delaying future work in this area.

TASK 2 - WATTS BAR

2.1 Metallurgy (Olson - PNL): Completed 100% of the FSAR review. Completed the draft SER, which is being reviewed by participating staff for final additions or corrections. Expect to submit this to the NRC by February 20, 1980.

TASK 3 - FARLEY 2

3.1 Metallurgy (Cybulskis - BCL): The review is expected to begin in late February or early March. The draft SER should be submitted in April.

3.2 Fracture Mechanics (Cybulskis - BCL): Review of Farley 2 FSAR has been initiated. The draft SER should be submitted in March.

3.3 In-Service Inspection (Taylor - PNL): The Applicant's pre-service inspection program is not available, delaying further work in this area.

TASK 4 - WATERFORD 3

4.1 Metallurgy (Olson - PNL): No additional work completed. All available manpower was assigned to Task 2 activities. Efforts should resume in February with the FSAR review and draft SER for internal review being completed that month. The draft SER should be submitted to the NRC in March.

4.2 Fracture Mechanics (Cybulskis - BCL): No work scheduled.

4.3 In-Service Inspection (Taylor - PNL): The Applicant's pre-service inspection program is not available, delaying further work in this area.

TASK 5 - MIDLAND

5.1 Metallurgy (Cybulskis - BCL): The metallurgy review of the Midland FSAR was discussed with the NRC on January 17, 1980, in Bethesda. A number of points were clarified and information needs identified at that time. The draft SER should be submitted in February.

TASK 6 - COMANCHE PEAK 1, 2

No work scheduled this month. Note: The pre-service inspection program for these units has not been received. This could result in a future delay for this phase of the work.

TASK 7 - LA SALLE

7.1 In-Service Inspection (Taylor - PNL): The draft SER is being reviewed by the NRC.

TASK 8 - CONSULTING SERVICES AND PROGRAM MANAGEMENT

No consulting activity scheduled this month. The Program Manager along with the BCL Program Manager discussed overall program progress with NRC staff at Bethesda. Interim funding problems were resolved at that time also.

SUMMARY SCHEDULE AND COSTS

THROUGH JANUARY 27, 1980

(\$1,000's)

Task	Actual Cost		Expected FYTD Cost		Initial SER Schedule			Current Expected Schedule		
	This Month	FYTD	This Month	Next Month	Draft	Final	Supl	Draft	Final	Supl
1.0 PERMI 2	9.8	34.5			12/79	5/80	6/80			
1.1 Fracture Mechanics								2/80	5/80	8/80
1.2 In-Service Inspection								*		
2.0 WATTS BAR	18.8	53.6			12/79	5/80	9/80			
2.1 Metallurgy								2/80	5/80	9/80
3.0 PARLEY 2	-	-			1/80	6/80	7/80			
3.1 Metallurgy								4/80	6/80	7/80
3.2 Fracture Mechanics								3/80	6/80	7/80
3.3 In-Service Inspection								*		
4.0 WATERFORD 3	-	11.2			1/80	6/80	7/80			
4.1 Metallurgy								3/80	9/80	11/80
4.2 Fracture Mechanics								5/80	9/80	11/80
4.3 In-Service Inspection								*		
5.0 MIDLAND	7.3	26.1			12/79	3/80	6/80			
5.1 Metallurgy								2/80	5/80	8/80
6.0 COMANCHE PEAK 1 AND 2	-	2.2			3/80	8/80	9/80			
6.1 Metallurgy								3/80	8/80	9/80
6.2 Fracture Mechanics								7/80	8/80	9/80
6.3 In-Service Inspection								*		
7.0 LA SALLE	1.9	6.3			11/79			12/79		
7.1 In-Service Inspection										
8.0 CONSULTING & PROGRAM MANAGEMENT	1.1	5.0								
TOTALS	39.1	139.2	180	200						

*Pre-service inspection programs not available. Dates depend on when the programs become available.