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March 2, 1984

TMI Program Office
 Attn: Dr. B. J. Snyder
 Program Director
 US Nuclear Regulatory Commission
 Washington, D.C. 20555

Dear Dr. Snyder:

Three Mile Island Nuclear Station, Unit 2 (TMI-2)
 Operating License No. DPR-73
 Docket No. 50-320
 Updated Major Milestone Schedule
 for the TMI-2 Cleanup

In response to your request of January 31, 1984 this letter will provide you with an updated Major Milestone Schedule for the TMI-2 Cleanup for 1984. We will provide you with a schedule for activities in 1985 and out years after we have evaluated those activities in view of the changing conditions regarding funding and additional technical information which needs to be reviewed.

Attachment A provides the Master Schedule for 1984. Attachment B provides the Decontamination and Defueling Program Technical Basis in support of the schedule. The 1984 schedule is based upon an overall assumption of availability of funding for the total amount of \$81.6M. The sources for funds for \$6.4M of that amount are not firmly defined at the present time. If during the year additional funding is available, we will revise our program and inform you of any such changes.

If you have any questions please call me.

Sincerely,

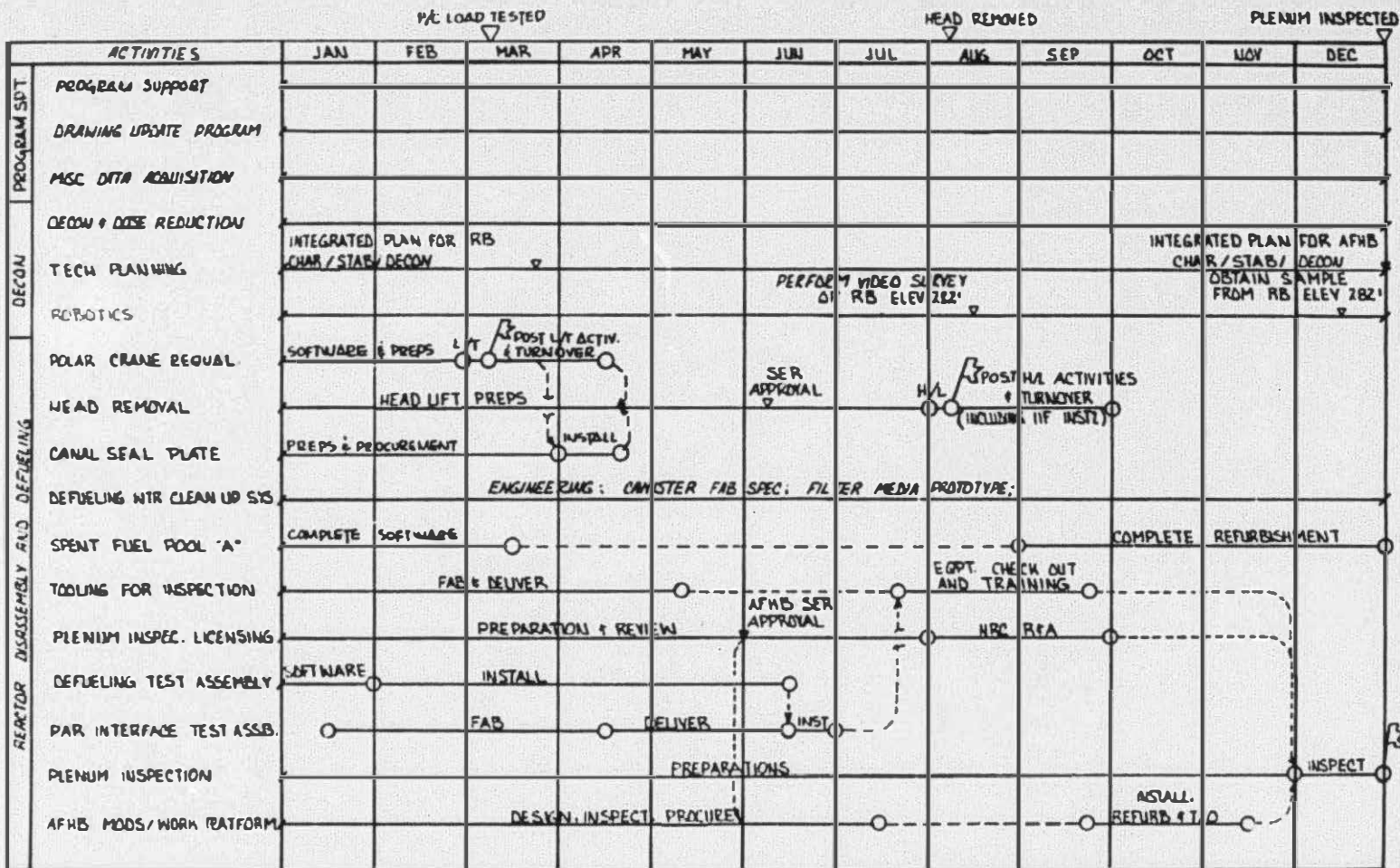
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 B. K. Kanga
 Director, TMI-2

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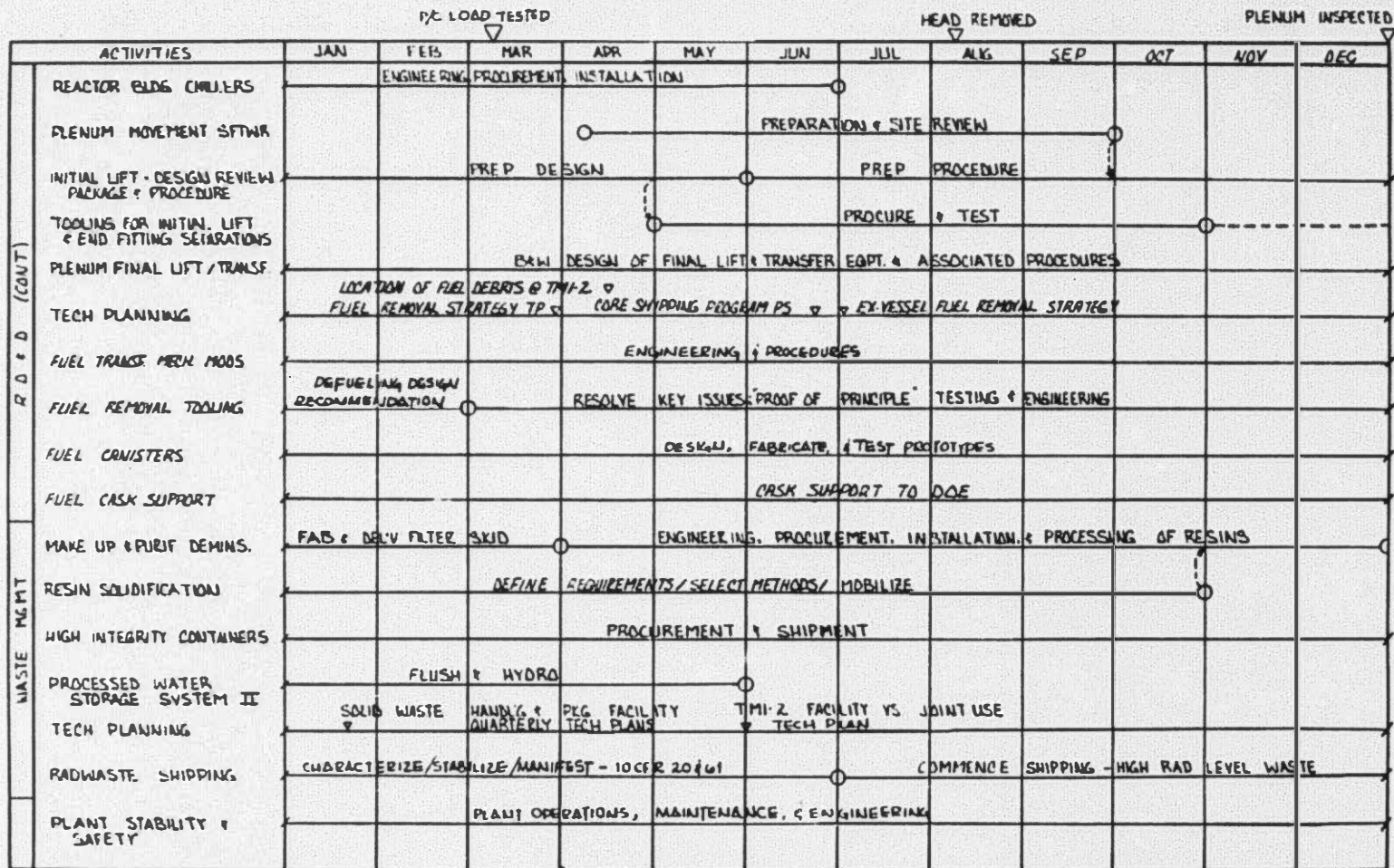
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 Attachments
 cc: Deputy Program Director, Mr. L. H. Barrett

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TMI-2 1984 PROGRAM MASTER SCHEDULE



TMI-2 1984 PROGRAM MASTER SCHEDULE



1984
DECONTAMINATION AND DEFUELING PROGRAM
TECHNICAL BASIS

DOSE REDUCTION/DECONTAMINATION

Reactor Building

Characterization/dose reduction/decontamination activities will continue on the 305' and 347' elevations and activities are either inconsequential or can be shielded. Activities planned are as follows:

- Perform detailed surveys to support shielding of hot spots and shine areas.
- Decontamination/dose reduction as required to improve current conditions.
- Utilize remote technology to pursue data acquisition activities on Elevation 282', to the extent that external funding is available.

Auxiliary and Fuel Handling Buildings (AFHB)

Decontamination

- General area decontamination activities will be those required to maintain current conditions.
- Replace the cork expansion joint in the annulus area between the AFHB and Reactor Building.
- Perform cubicle decontamination operations as required to permit access for plant technical specification surveillances, which have thus far been deferred for ALARA reasons.
- Continue efforts associated with the Makeup & Purification System to achieve the ability to ship demineralizer resins in late 1984.

REACTOR DISASSEMBLY AND DEFUELING (RD&D)

Reactor Vessel Head Removal

- Head removal, delayed due to the unavailability of the reactor building polar crane for head lift preparations and the removal of the head itself, is projected to be completed in August 1984. The polar crane load test sequence is scheduled for completion in March 1984. Significant activities associated with the head

RD&D in 1984 (cont.)

Reactor Vessel Head Removal (cont.)

removal task that will occur in 1984 are installation of the canal seal plate, leadscrew parking, installation of head lift rigging, removal of the reactor vessel head, and the installation and water fill of the modified internals indexing fixture.

Reactor Vessel Plenum Removal

- General plenum removal task preparations to be performed in 1984 include the completion of the plenum drop analysis, the Safety Evaluation Report, and the criticality analysis required to support inspection and initial lift. Also scheduled is the design, procurement and installation of reactor building chillers and the design and procurement activities for a breathing air system to improve reactor building habitability.
- The first significant plenum subtask is the plenum inspection, currently projected for performance in December 1984. Activities scheduled in 1984 to support this subtask are the completion of inspection engineering, establishment of required area radiation monitoring, lighting and power, fabrication and delivery of inspection tooling, modifications to the refueling bridge, development of the plenum inspection procedure and field training and mockup.
- The next plenum subtask is the jacking (initial lift) of the plenum, currently projected for completion in April 1985. Scheduled in 1984 to support this task is the completion of initial lift engineering and fabrication of required tooling and commencement of jacking procedure development.
- The final subtask is lift and storage of the plenum. Activities in 1984 to support this subtask are the continuation of final lift engineering, the pursuit of final lift rigging, the commencement of final lift tooling fabrication, development of the final lift procedure and software required for preparation of the plenum storage stand.
- The Defueling Test Assembly, to be used for on-site training, check-out and planning of plenum and fuel removal operations, will be available in June 1984. Activities to be performed in 1984 include the installation of the tank, piping, electrical hookups, the issuance of the defueling test assembly functional and operating description, along with the operating procedure.

Reactor Vessel Fuel Removal

- Activities in 1984 to support this target date are the selection of a defueling system, followed by the commencement of detailed system design, and the initial preparations of the fuel removal safety evaluation report. Support of the evaluation and pursuit of

RO&O in 1984 (cont.)

Reactor Vessel Fuel Removal (cont.)

licensable fuel shipping casks will continue in 1984 to support the start of the fuel shipping campaign. Other 1984 activities include the fabrication of fuel and filter prototype canisters and the issuance of the production canister specification.

Refueling Canal Modifications

- The defueling water cleanup system is required to process fuel pool, refueling canal and reactor vessel water. To support system availability at this time, engineering will continue, material procurement and equipment fabrication will commence, and the System Technical Evaluation Report will be developed.
- Replacement of the existing fuel transfer mechanisms with a cable drive fuel transfer mechanisms for reliability, and modification to the upenders is required. The 1984 scope of work to accomplish this includes the continuation of modification engineering and the completion of component fabrication and delivery.

"A" Fuel Pool Refurbishment

- Refurbishment of "A" fuel pool, required for access to the pool side of the fuel transfer mechanisms and the eventual installation of new fuel storage racks, is scheduled for completion in December 1984. Activities scheduled for 1984 to complete this task are the decontamination of lower tanks, disposal of the SDS feed manifold; the completion of shield slab storage; the completion of upper and lower tank removal and the completion of associated tank farm piping and structural steel removal.

GENERAL SUPPORT FACILITIES

A review of the facilities was completed and the following conclusions were drawn:

- There will be no need for additional processed water storage capacity.
- The Containment Recovery Service Building (CRSB) previously planned is not required. Activities related to a downsized CRSB will be considered starting in 1985 to achieve program end point criteria.
- The Personnel Access Facility (PAF) associated with the CRSB will not be required.
- Existing waste staging capacity is sufficient to provide for TMI-2 plant requirements without expansion in 1984.

GENERAL SUPPORT FACILITIES (cont.)

- Outstanding enhancements to the interim solid waste staging facility (carport) will be completed.
- The recirculation mode of the Processed Water Storage System will be complete in May 1984 to allow transport of processed water back into the plant for use in recovery.

WASTE MANAGEMENT

Activities are included to maintain current conditions and to satisfy program needs in 1984.

- o Waste shipping and disposal impacts are being evaluated as a result of 10CFR61 and 10CFR20.311.

FUNDING

The 1984 program described above is based on the following funding:

<u>Source</u>		<u>\$MM</u>
External Agencies	DOE	14.3
	EPR1	.9
GPUNC (including Comm. of PA)		60.0
Other		6.4
		<u>81.6</u>