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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

JUL 2 1979

MEMORANDUM FOR: Robert L. Baer, Chief, Light Water Reactors Branch No. 2,  
Division of Project Management

FROM: H. Rood, Project Manager, Light Water Reactors Branch No. 2,  
Division of Project Management

SUBJECT: SUMMARY OF MEETING TO DISCUSS CASEWORK SCHEDULES

On June 13, 1979, Harold Denton, Director, Office of Nuclear Reactor Regulation, and other members of the NRC staff met in Bethesda, Maryland with representatives of utility companies having CP and OL applications under review. The purpose of the meeting was to discuss (1) staff policies regarding the review of current CP and OL applications, and (2) the criteria for establishing priorities for the review of those applications. The meeting was held in two sessions; the morning session included utilities with OL applications that the staff estimates will be ready to load fuel in 1979, and utilities with CP applications in hearing. The afternoon session included other OL and CP applicants. The utilities invited to attend the morning and afternoon sessions are given in Enclosures 1 and 2.

Both morning and afternoon sessions opened with a presentation by Mr. Denton and other members of the NRC staff. Since the two presentations were essentially the same, a single summary is given below. Following each presentation was a question and answer period in which the utility representatives had the opportunity to discuss their views with Mr. Denton. Their questions and comments and the staff responses are also summarized below.

NRC STAFF PRESENTATION

Mr. Denton opened the meeting by stating that both the industry and the NRC staff have a challenging period ahead in dealing with the Three Mile Island (TMI) accident and its effects on the licensing of nuclear plants. He indicated that the staff is not prepared to issue any new licenses until the results of the staff's "TMI Lessons Learned" task force are available. This approach is being taken to avoid foreclosing any options for design changes that may be desirable. For example, if the installation of reactor water level instrumentation or a reactor head venting system is proposed and adopted as a requirement, such modifications could be much more difficult if a plant is started up and the reactor vessel irradiated.

JUL 2 1979

Mr. Denton then described the interim NRR organization that has been established to deal with TMI-related issues. Several task groups have been formed, including TMI Direct Support, Evaluation of IE Bulletins and Orders, TMI Lessons Learned, Unresolved Safety Issues, and additional DOR support. About 70 NRR personnel that previously were assigned to casework (review of CP and OL applications) have been assigned to these groups. During the course of the next six to eight months, these groups will be completing their assignments, and the group members will be folded back into their original organizations. In the interim, the NRR efforts on casework must be reduced. Enclosure 3 identifies the impact of the TMI effort on currently docketed CP and OL applications.

The impact of TMI varies for the various review branches. Almost all the members of some branches such as the Reactor Systems Branch, are assigned to the TMI effort. Other branches are less affected. Enclosure 4 summarizes the effects of the TMI effort on the NRR Division of Systems Safety. This enclosure was discussed at the meeting by Frank Schroeder, the acting DSS Director.

Mr. Denton then outlined the efforts being made to obtain additional reviewers so as to minimize the delay of current casework. Enclosures 5 and 6 indicate the support for these efforts that exists at the Office of Management and Budget and in Congress.

Mr. Denton pointed out that it would be very difficult to bring new, inexperienced people into NRC to alleviate the manpower shortage during the six to eight month period that the TMI groups will be in existence. For this reason, the effort to obtain additional NRR reviewers is concentrated on bringing in experienced people from other government agencies, such as the Department of Energy's National Laboratories, the Corps of Engineers, the Naval Ship Research and Development Laboratory, and from other parts of NRC. The NRC Commissioners have authorized the transfer of 24 people to NRR from other offices within NRC.

Mr. Denton indicated that he was disappointed that, so far, no utility or utility group had come forward with a proposed plan of action for changes to their plant as a result of the TMI accident. He indicated that the industry appeared to be waiting for the NRC to decide what changes were necessary as a result of TMI. Mr. Denton pointed out that the primary responsibility for safety still rests with the industry, since budget and manpower constraints limit the NRC role to auditing the industry's efforts.

JUL 2 1979

During the meeting, a group of utilities with Westinghouse nuclear steam supply systems (Virginia Electric Power Company, Pacific Gas and Electric Company, Public Service Electric and Gas Company) indicated that it had a plan of action to be taken for its plants (North Anna 2, Diablo Canyon 1 and 2, and Salem 2) prior to and after issuance of operating licenses. These recommendations were then presented at the meeting by the Virginia Electric Power Company representative (see Enclosure 7). Other utilities also indicated that they had such studies in progress, and that groups such as the Atomic Industrial Forum did also.

#### QUESTION AND ANSWER PERIOD

A number of questions were asked by the utility representatives present. Some of these questions and the NRC staff response are given below.

Q: What resources will the staff commit to the review of a TMI accident assessment report prepared by a utility that is not high on the priority list?

A: The staff would run such reports through the "Lessons Learned" group as a first step. In case there are more such reports that can be immediately reviewed, the staff would be guided by the priority list given in Enclosure 3.

Q: Can industry provide NRC with the needed manpower to speed up the casework reviews?

A: TVA appears to be the only possibility, since it is a Government agency. Mr. Denton indicated that he plans to discuss this possibility with TVA management. The staff also is looking at the DOE labs, such as INEL and Oak Ridge. The conflict of interest laws preclude use of industry personnel and in fact, the staff has been criticized by GAO for even using DOE contractors.

Q: Since the next five OL applications scheduled for fuel loading are Westinghouse plants, could a combined review be conducted to save staff resources and expedite the review?

A: The staff encourages such combinations. Also, the staff suggests that non-TMI-related open issues can be worked on by the utilities and solutions found even if staff reviewers are not immediately available to review these applications. A list of some of the more critical non-TMI-related open items for the seven high priority OL reviews is shown in Enclosure 8.

Q: Explain the completion dates in Enclosure 8 and Enclosure 3.

A: The dates in Enclosure 3 are staff estimates of when construction will be complete. These correspond to the dates in the second column of Enclosure 8. These dates were used to determine the relative priorities of the OL reviews. The dates in Enclosure 8 listed under completion of licensing effort are based on the pessimistic assumption that no additional manpower becomes available.

Q: How is the Emergency Planning Branch affected by the TMI effort. They are not listed in Enclosure 4.

A: That effort is not in DSS (the subject of Enclosure 4) but in the Division of Site Safety and Environmental Analysis (DSE). DSE branches are not on the critical path for the first seven OL reviews.

Q: What will be the impact on licensing of the emergency planning rule-making hearings?

A: The staff has not assessed this question. The effect of TMI on emergency planning criteria is very difficult to predict at this time.

Q: When will the NRC establish its post-TMI criteria?

A: The staff is scheduled to brief the Commissioners on this subject for the first time the week of June 25. This is only the first step in the criteria-establishment process.

Q: Why can't the OL applications be put into the same category as operating plants, and allowed to operate while the post-TMI criteria are being developed? What is the difference between the units of a two unit plant, where one has an OL, the other does not?

A: OL applications are being held up to avoid foreclosing options for post-TMI changes that may be required by the NRC after the various groups evaluating the implications of TMI are finished. The principal difference between plants that have an OL and plants that have applied for, but not received an OL, is that the burden of proof is on an applicant to show that its plant is safe, whereas the burden of proof is on the staff if it concludes that a licensed plant is unsafe.

JUL 2 1979

Q: What is the impact of TMI on the staff project managers?

A: Four were assigned to the TMI groups, but most are still assigned to casework.

Q: We find the delay in licensing unacceptable; how many reviewers are required to keep the casework on the old schedule?

A: The TMI effort has taken 70 people from casework. Other NRC offices have been directed to provide 24 people to NRR to help make up the difference. We are hopeful of getting more people from DOE and other Government agencies. However, inexperienced people are a negative factor because they have to be trained. Even if the staff had the 70 people back, the old schedules probably could not be achieved. This is further compounded by the additional review effort that will result from the work of the TMI evaluation groups. The staff believes that some casework schedule slippage cannot be avoided, but a major effort is being made to minimize this. Probably an additional 100 reviewers could be advantageously used.

Q: How much delay are we talking about?

A: In the worst case, if no additional reviewers are obtained, issuance of the near-term OL's might be delayed as much as six months beyond the estimated construction completion date given in Enclosure 3.

Q: Can we get an update on the results of the efforts being made to get more people?

A: The staff will schedule a meeting similar to this one in a few weeks.

*H. Rood*

H. Rood, Project Manager  
Light Water Reactors Branch No. 2  
Division of Project Management

Enclosures:  
As stated

cc: See attached sheets

JUL 2 1979

ENCLOSURE 1

List of Attending Utilities

9:30 A. M. Session

Arizona Public Service Co. (Palo Verde)  
Boston Edison (Pilgrim 2)  
Cincinnati Gas & Elec. (Zimmer)  
Commonwealth Edison (Lasalle)  
Duke Power (McGuire & Perkins)  
Houston Lighting & Power (Allens Creek)  
New England Power (New England 1&2)  
Pacific Gas & Electric (Diablo Canyon)  
Portland General Electric (Pebble Springs)  
Public Service of Oklahoma (Black Fox)  
Public Service of New Jersey (Salem 2)  
Pugit Sound Power & Light (Skagit)  
TVA (Sequoyah)  
Virginia Electric Power Co. (North Anna 2)

JUL 2 1979

ENCLOSURE 2

List of Attending Utilities

1:30 P. M. Session

Alabama Power (Farley 2)  
Commonwealth Edison (Byron/Braidwood)  
Consumers Power Co. (Midland)  
Detroit Edison (Fermi 2 & Greenwood)  
Duke Power (Catawba)  
Houston Power & Light (South Texas)  
Long Island Lighting (Shoreham)  
Louisiana Power & Light (Waterford 3)  
Mississippi Power & Light (Grand Gulf)  
New York Electric & Gas (New Haven 1&2)  
Ohio Edison (Erie 1&2)  
Pennsylvania Power & Light (Susquehanna)  
South Carolina Electric & Gas (Summer)  
Southern California Edison (San Onofre 2)  
Texas Utilities Gen. Co. (Commanche Peak)  
Toledo Edison (Davis Besse 2&3)  
TVA (Bellefonte & Watts Bar)  
Washington Public Power Supply System (WPPSS 2)  
Wisconsin Electric Power (Haven 1)



JUL 2 1979

Enclosure 3

IDENTIFICATION AND SUMMARY

AND

CASEWORK IMPACTS

JUL 2 1979

## Identification of Continued and Suspended Casework Reviews

The completion of reviews of near term OLs including the coordination and implementation of input from Lessons Learned and Bulletins groups for these plants:

Salem 2	(May 1979)*
North Anna 2	(June 1979)
Diablo Canyon 1	(June 1979)
Sequoyah 1	(July 1979)
McGuire 1	(October 1979)
Zimmer	(December 1979)
LaSalle 1	(December 1979)

\*Construction completion dates are shown in ().

The completion of CP's for which the reviews are essentially complete and are already active in the hearing process:

Perkins	Pebble Springs 1 and 2
Skagit 1 and 2	Pilgrim 2
Allens Creek	New England 1 and 2
Black Fox 1 and 2	

JUL 2 1979

The resulting Board actions could adversely impact staff efforts to complete these reviews in a timely manner.

The review of OL's for which construction is expected to be completed prior to January 1981 include will continue. These reviews include:

Watts Bar 1	(June 1980)
Fermi 2	(June 1980)
Summer	(October 1980)
Shoreham	(October 1980)
San Onofre 2	(November 1980)
Susquehanna 1	(December 1980)
WPPSS 2	(December 1980)

In spite of recently announced delays in Fermi 2 (now June 1981) and WPPSS 2 (now March 1981) these reviews will continue due to the considerable amount of effort already expended.

JUL 2 1979

### Suspended Activities

As a result of realignment resources and new priorities the following in the Casework Decision Unit will be suspended:

1. Suspend OL reviews until January 1980:

Grand Gulf 1 and 2	(March 1981)
Farley 2	(June 1981)
Waterford 3	(September 1981)
Byron/Braidwood	(September 1981)
Midland 1 and 2	(November 1981)*
Comanche Peak 1 and 2	(November 1981)
Bellefonte 1 and 2	(March 1982)
Catawba 1 and 2	(September 1982)
South Texas 1 and 2	(October 1982)

\*Except for work on structural/foundation problems

JUL 2 1979

2. CP reviews to be suspended until January 1980:

Erie 1 and 2                      Davis-Besse 2 and 3

Haven 1

New Haven 1 and 2              Greenwood 2 and 3

(Preapplication Review for Carroll County will be postponed; however, Early Site Review efforts will continue.)

3. Other activities:

a. Standardization Reviews

- (1) All seven BOP reviews
- (2) FDA review of CESSAR-80
- (3) RESAR-412 PDA (for Carroll County)

will be delayed well into 1980

(FNP, if possible, will be continued but with no essential priority).

b. NASAP and INFCE activities

JUL 2 1979

Summary of Casework Impacts

The following summarizes the Casework Impacts resulting from the realignment of resources and priorities:

o Near term OL applications delays:

Salem	3 months
North Anna 2	2 months
Diablo Canyon 1	2 months
Sequoyah 1	1 month

Reopened hearing for Three Mile Island 2 issues could cause further delays

o Suspended OL review delays:

Grand Gulf	12 months
Waterford 3	6 months
Byron/Braidwood	6 months
Comanche Peak	4 months

Other minor delays may occur in Bellefonte, Catawba and Comanche Peak reviews

JUL 2 1979

o CP Delays

Carroll County      12 months

Haven 1

Central Virginia      12 months

Erie\*

Davis Besse\*

\* If applicant proceeds on schedule - 12 months delay

o Suspend Standardization Reviews

JUL 2 1979

GENERAL OVERVIEW OF DSS CASEWORK

FOR NEXT 6-8 MONTHS

4 Branches (RSB, MEB, SEB, GSB) can do nothing but 7 near term OL reviews.

Remaining Branches can complete 7 near term OL reviews and make some limited progress on 7 intermediate term OL reviews.

Given additional manpower from outside NRR and additional dollars for technical assistance on casework some progress might be made on 9 longer term OL reviews in some but not all branches.

Above does not take into account impact of implementation of "Lessons Learned" from TMI. This impact will likely substantially delay intermediate term OL reviews.



JUL 2 1979

DSS CASEWORK RESOURCES

Branch	Number of Reviewers*		
	Pre 6/1/79 Organization		Interim Organization
	Total	Casework**	Casework
Mechanical Engineering	11	8	2
Structural Engineering	10	7	2
Materials Engineering	11	8	5
Reactor Systems	14	10	2 + 4
Analysis	13	7	3
Core Performance	12	10	10
Containment Systems	16	11	8
Auxiliary Systems	10	9	4
Instrumentation & Control Systems	11	8	4
Power Systems	9	7	3
Geosciences	<u>11</u>	<u>8</u>	<u>6</u>
	128	93	53

\*Excludes Branch Chiefs, but counts Section Leaders as Reviewers

\*\*Equivalent full time reviewers, taking account of manpower devoted to unresolved safety issues, and SEP.

Enclosure 5



EXECUTIVE OFFICE OF THE PRESIDENT  
OFFICE OF MANAGEMENT AND BUDGET  
WASHINGTON, D.C. 20503

JUN 1 1979

*Barry*  
*Denton*  
*D&D*  
*Burd*

*10*  
*3/10/79*

Honorable Joseph M. Hendrie  
Chairman  
Nuclear Regulatory Commission  
Washington, D.C. 20555

Dear Mr. Chairman:

I understand that staff of the Commission have been examining the need for immediate additional personnel assistance because of the impact the accident at Three Mile Island has had on the ability of your agency to handle licensing applications and other normal workload actions.

I further understand that the types of assistance that might be needed could be provided from the staff resources of the National laboratories of the Department of Energy, and from the Army Corps of Engineers and the U.S. Geological Survey. Should you need any help from us in securing whatever temporary assistance you decide is needed, we would be more than happy to help. I am also alerting the Secretaries of Energy, Army and Interior to the possibility that you may call on them for assistance. Enclosed are copies of the letters I am sending them.

We appreciate the difficult position the Commission is in, in having to handle an unexpected and dramatic increase in activities, as a result of the accident at Three Mile Island. I would hope that with temporary assistance from other agencies, plus the increase in staff proposed in the 1980 budget, the Commission will be in a better position to handle its responsibilities.

Sincerely,

John P. White  
Deputy Director

3 Enclosures



EXECUTIVE OFFICE OF THE PRESIDENT  
OFFICE OF MANAGEMENT AND BUDGET  
WASHINGTON, D.C. 20503

JUN 1 1979

Honorable Cecil D. Andrus  
Secretary  
Department of Interior  
Washington, D.C. 20240

Dear Mr. Secretary:

As you are aware, the accident at Three Mile Island has impacted the nuclear energy responsibilities and activities of the Federal government in many ways.

In particular, the Nuclear Regulatory Commission has had to reallocate its resources to focus on the various investigations and associated activities pertaining to the accident. This, in turn, has had a significant impact on the ability of the Commission to handle its on-going workload.

NRC may find itself in the position of needing additional technical experts such as nuclear engineers, seismologists etc., on a temporary basis. If it turns out that a temporary detail is required, I hope you will do all you can to assist NRC in locating those experts from within the resources of your agency.

If special problems arise in responding to any request from the NRC, please feel free to call me.

Sincerely,

(signed)

JOHN P. WHITE

John P. White  
Deputy Director



EXECUTIVE OFFICE OF THE PRESIDENT  
OFFICE OF MANAGEMENT AND BUDGET  
WASHINGTON, D.C. 20503

JUN 1 1979

Honorable Clifford L. Alexander, Jr.  
Secretary  
Department of the Army  
Washington, D.C. 20310

Dear Mr. Secretary:

As you are aware, the accident at Three Mile Island has impacted the nuclear energy responsibilities and activities of the Federal government in many ways.

In particular, the Nuclear Regulatory Commission has had to reallocate its resources to focus on the various investigations and associated activities pertaining to the accident. This, in turn, has had a significant impact on the ability of the Commission to handle its on-going workload.

NRC may find itself in the position of needing additional technical experts such as nuclear engineers, seismologists etc., on a temporary basis. If it turns out that a temporary detail is required, I hope you will do all you can to assist NRC in locating those experts from within the resources of your agency.

If special problems arise in responding to any request from the NRC, please feel free to call me.

Sincerely,

(signed)

JOHN P. WHITE

John P. White  
Deputy Director



EXECUTIVE OFFICE OF THE PRESIDENT  
OFFICE OF MANAGEMENT AND BUDGET  
WASHINGTON, D.C. 20503

JUN 1 1979

Honorable James R. Schlesinger  
Secretary  
Department of Energy  
Washington, D.C. 20545

Dear Mr. Secretary:

As you are aware, the accident at Three Mile Island has impacted the nuclear energy responsibilities and activities of the Federal government in many ways.

In particular, the Nuclear Regulatory Commission has had to reallocate its resources to focus on the various investigations and associated activities pertaining to the accident. This, in turn, has had a significant impact on the ability of the Commission to handle its on-going workload.

NRC may find itself in the position of needing additional technical experts such as nuclear engineers, seismologists etc., on a temporary basis. If it turns out that a temporary detail is required, I hope you will do all you can to assist NRC in locating those experts from within the resources of your agency.

If special problems arise in responding to any request from the NRC, please feel free to call me.

Sincerely,

(signed)

JOHN P. WHITE  
John P. White  
Deputy Director

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Congress of the United States  
House of Representatives  
Committee on Appropriations  
Washington, D.C. 20515

May 30, 1979

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EXT. 5771  
OR  
23-071

Honorable Joseph M. Hendrie  
Chairman  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Dear Mr. Chairman:

The Committee's letter of May 24, 1979, advised you of the decision not to approve the Nuclear Regulatory Commission's reprogramming request submitted on April 26, 1979, until the resource requirements associated with the Three Mile Island incident could be determined and considered in relation to other needs. This action reflected our understanding that the Nuclear Reactor Regulatory (NRR) program has assigned a significant portion of its manpower resources to priority tasks associated with evaluation of the Three Mile Island incident. As a result, other licensing activities are being delayed and further significant delays are anticipated.

Considering the funds and manpower resources currently available to the Commission, the Committee sees no basis for delaying licensing activities while lower priority programs continue unaffected.


Certainly the Committee agrees that nuclear plant safety must have priority in Commission actions. But the Committee and the Congress must also weigh economic and other issues which affect the overall public well-being. The Committee has been told that delays in nuclear plant construction and operation can result in additional costs of up to \$1,000,000 a day for each plant delayed due to higher construction costs and replacement power. For the 50 plants now in the licensing phase, this could cost the consumer \$150,000,000 a month in unnecessary added costs.

The Committee also understands that the availability of power from many of the nuclear plants now planned or under construction is critically needed in several regions of the country. Without these plants, the regions face blackouts, rolling brownouts or loss of economic growth, along with the significantly higher costs to the consumer.

In its hearing on NRC's annual budget request, the Committee has continually expressed concern over the pace of NRC's power reactor facility licensing review and approval. The Committee believes that this reactor licensing process is the core of NRC's responsibility with other programs being supportive. To this end, the Committee believes that NRC resources as a whole should be available as necessary to meet critical needs in the licensing area.

It is our understanding that the significant delays in the licensing process could be avoided by the temporary addition of about 100 additional experienced personnel and \$3,000,000 for contractual efforts associated with the Three Mile Island evaluation. The Committee believes strongly that NRC should take immediate steps to (1) satisfy NRR's manpower requirements by a combination of shifting manpower resources from other NRC programs and obtaining assistance from other Federal agencies and (2) reprogram funds necessary to satisfy NRR's contractual requirements for TMI.

Sincerely,



Tom Bevill, Chairman  
Subcommittee on Energy  
and Water Development



Chairman

(6/11/79)

## ACTION TO TAKE BEFORE ISSUANCE OF O.L.

I) Emergency Planning

- a) Establish off-site emergency operations center
- b) Prepare for joint utility, state, and NRC public information coordination.
- c) Implement a "key employee" recall plan for the utility and the site.
- d) Designate formal interdisciplinary incident response teams and procedures to integrate their capability into plant operations.
- e) Install lines of direct communication with NRC.

II) Operator Training & Procedures - *SHIFT - TURN OVER*

- a) Review and revise, as necessary, selected list of key procedures in light of TMI-type events (List ....).
- b) Provide training of all operators on TMI-type events; on selected key multiple incident events; and on any revised procedures.
- c) Train operators on indications and procedures for verifying and monitoring natural circulation.
- ~~d) Implement staffing of an SRO and an engineer on all shifts.~~
- e) Review and revise, as necessary, administrative controls to prevent improper equipment alignments.



III) Analysis

Small break analyses (Owners' Group studies)

IV) Plant Modifications

- a) Implement SI on 2/3 low pressurizer pressure
- b) Implement in the control room a method to determine saturation status and margin to saturation.
- c) Establish a position or implement a design change on I.E. Circular 78-19 "Manual Override (Bypass) of Safety System Activation Signals"

V) Review Prior to OL and Implement, As Necessary, At a Convenient Time After OL

- a) Review adequacy of Post-accident monitoring instruments; particularly the wide-range instruments.
- b) Review adequacy of auxiliary feed system for long-term cooling, including location of critical equipment for maintainability and accessibility.
- c) Review adequacy of indications of PORV status.
- d) Review use of in-core T/C, including computer read-outs and procedures.
- e) Review the containment isolation design bases, including the need for isolation on high radiation.
- f) Review pressurizer heater energy sources.

VI) Long-Term Commitments

(Commit before OL to do a post-OL study and to implement revisions as are necessary based on the study)

- a) RV water level indication design alternatives.
- b) System venting design alternatives
- c) Adequacy of RHR, including locations of critical equipment and accessibility/maintainability
- d) Adequacy of RCS and containment remote sampling
- e) Adequacy of ranges of on-site radiation monitors
- f) Procedures for reviewing LER's → IV
- g) Adequacy of recruiting and selection process for operators
- h) Review of adequacy training curriculum, methods of training, refresher training.

JUL 2 1979

NEAR TERM OL-REVIEW PROJECTIONBASED ON CURRENT INTERIM/REORGANIZATION MANPOWERAVAILABLE FOR CASEWORK & EXCLUDING TMI-2 LESSONS LEARNED IMPACT

<u>FACILITY</u>	<u>CONSTRUCTION COMPLETE</u>		<u>LICENSING EFFORT COMPLETE</u>	<u>REMARKS</u>
	<u>APPLICANT</u>	<u>STAFF</u>		
Salem 2	5-79C	5-79C	11-79	PSB - Pacing branch-principal item is completion of fire & drawing review so that ASB can complete fire protection review by 11-79. MEB - Complete seismic qualification of equipment by 9-79. No environmental problems
North Anna 2	6-26-79	6-26-79	8-79	PSB - Pacing branch - awaiting applicant info on degraded grid matter - completion estimated 8-79. MEB - Review IE Bulletin 79-02 complete by mid 7/79 Hydrology - 1 month slip on heat sink matter. No environmental problems.
Diablo Canyon 1	8-79	8-79	12-79	PSB - Pacing branch - awaiting applicant info on 6 outstanding issues - estimate completion 11/79. RSB - Complete mid 8/79. MEB - SQPT + IE 79-02 - need expert help 2-3 weeks to complete effort - trying Carderock Naval Lab, for help. No environmental problems
Sequoyah	10-79*	10-79	10-79	RSB - Pacing branch - estimate completion 10-1-79 ICSB- Complete by 9-1-79 MEB - IE-79-02 need expert help 2-3 weeks to complete effort-trying Carderock Naval Lab for help. GSB - To complete seismic effort need Leon Reiter for 1-week but he is on SEP. No environmental problems.

\* Informally notified by TVA on 6-8-79 that construction completion will slip from 7/79 - new problem with containment penetrations.

JUL 2 1979

<u>FACILITY</u>	<u>CONSTRUCTION COMPLETE</u>		<u>LICENSING EFFORT COMPLETE</u>	<u>REMARKS</u>
	<u>APPLICANT</u>	<u>STAFF</u>		
McGuire	10-79	10-79	12-79	<p>SEB - Pacing branch - effort complete end 11/79.  RSB - Effort complete 11-1-79.  ICSB- Seismic &amp; env. qualif. 9-1-79.  MEB - IE-79-02 - as above need expert help for 2-3 weeks.  No environmental problems.</p>
Zimmer	11-19-79	12-79	3-80	<p>MEB - Pacing branch - need to complete seismic requalification est. - completion 3-1-80.  IE-79-02 - as above need expert help for 2-3 weeks  SEB - Open items + Mark II closure report - estimate completion 1-15-80.  ASB - Fire protection complete 9-1-79.  RSB - Effort complete 8-1-79.  No environmental problems.</p>
LaSalle	6-80	6-80	4-80	<p>SEB - Pacing branch - soil structure interaction + Mark II pool dynamic matters.  MEB - SER Supplement 2 with open items 2-15-80.  ASB - Fire Protection 12-79.  CSB - SER Supplement 11-79.  RSB - SER Supplement 10-79.  Hydrology - rip rap open item?  No environmental problems.</p>

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