

COMMISSION BRIEFING  
ON  
LICENSING SCHEDULES

B108170 755

## OUTLINE

- o EVOLUTION OF TARGET SCHEDULES
- o IDENTIFICATION OF IMPACTED PLANTS
- o MAGNITUDE OF THE DELAYS
  - CONSTRUCTION COMPLETION DATES
  - DURATION OF HEARINGS
  - SSER/FES SCHEDULES
- o CURRENT STATUS OF PLANTS - FY 1981, 1982  
(CASE-BY-CASE REVIEWS)
- o RECOVERY PLAN
  - OPTIONS AVAILABLE
  - PROGRAMMATIC AND RESOURCE COSTS
  - ONGOING PROGRAM IMPACT
- o RECOVERY PLAN RECAP

# EVOLUTION OF TARGET SCHEDULES

<u>TARGET SCHEDULE</u>	<u>KEY ASSUMPTIONS</u>	<u>NO. OF IMPACTED PLANTS</u>	<u>REACTOR- MONTHS DELAY</u>
APRIL 1980 PROJECTIONS	<ul style="list-style-type: none"> <li>- NRC DATES FOR CONSTRUCTION COMPLETION USED</li> <li>- 33 MONTH SCHEDULE FROM DOCKETING TO OL ISSUANCE (5 MOS. FROM SSER TO OL ISSUANCE FOR CONTESTED CASES)</li> <li>- NO CONSIDERATION OF SUSPENSION OF IMMEDIATE EFFECTIVENESS RULE</li> <li>- NTOL'S TREATED ON CASE-BY-CASE BASIS</li> </ul>	3	10
OCTOBER 1980 PROJECTIONS	<ul style="list-style-type: none"> <li>- NRC DATES FOR CONSTRUCTION COMPLETION USED</li> <li>- DIFFERENTIATED BETWEEN MODERATE AND HEAVY HEARINGS (5 TO 9 MOS.)</li> <li>- CONSIDERED SUSPENSION OF IMMEDIATE EFFECTIVENESS RULE (2 TO 3 MONTHS DEPENDING ON TYPE OF HEARING)</li> </ul>	5	29
JANUARY 1981 PROJECTIONS	<ul style="list-style-type: none"> <li>- NRC DATES FOR CONSTRUCTION COMPLETION USED</li> <li>- REALISTIC SCHEDULES FOR HEARINGS BASED ON INPUT FROM OELD AND BOARDS</li> </ul>	11	79

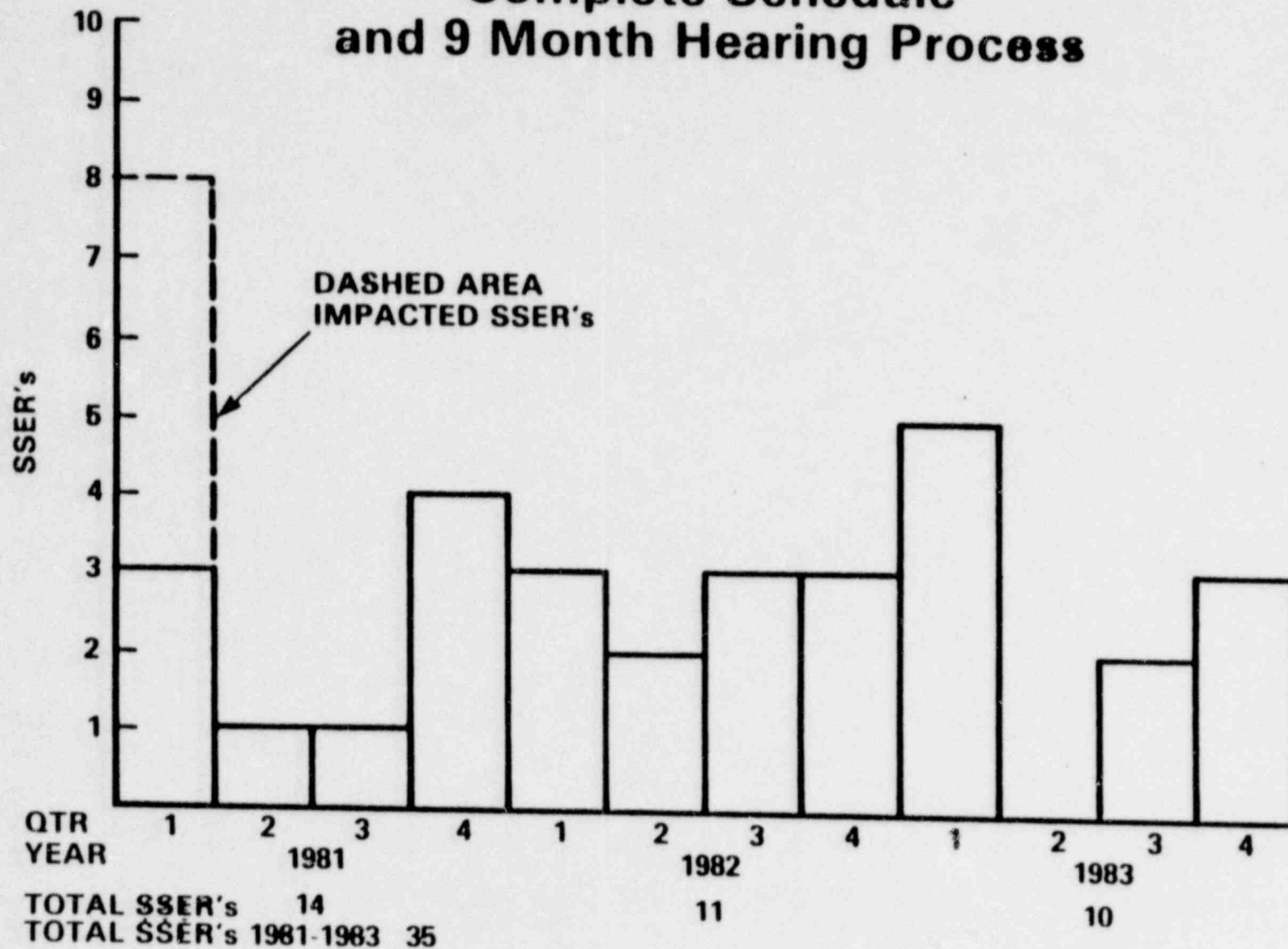
## IMPACTED PLANTS - CONTRIBUTING FACTORS

- o LICENSING PAUSE RESULTING FROM TMI-2 ACCIDENT
- o ADDITIONAL REVIEW REQUIREMENTS RESULTING FROM TMI ACCIDENT
  - HUMAN FACTORS CONSIDERATIONS
  - UPGRADED EMERGENCY PLANNING
  - IMPROVED PLANT DESIGN
  - MORE INDEPTH REVIEW
- o LENGTHY HEARING PROCESS
  - PREHEARING ACTIVITIES  
(COMPLETION OF DISCOVERY, NARROWING OF ISSUES, FILING OF TESTIMONY)
  - POSTHEARING ACTIVITIES  
(FILING OF PROPOSED FINDINGS, BOARD DECISION, APPEAL BOARD/COMMISSION REVIEW)
- o LOSS OF EXPERIENCED PEOPLE TO IE/AEOD
- o MANPOWER SHORTAGES DUE TO PARTIAL HIRING FREEZE
- o MAJOR UNSCHEDULED EFFORT, E.G., - TMI-1 RESTART HEARING, ZION/INDIAN POINT 2.206 PETITIONS

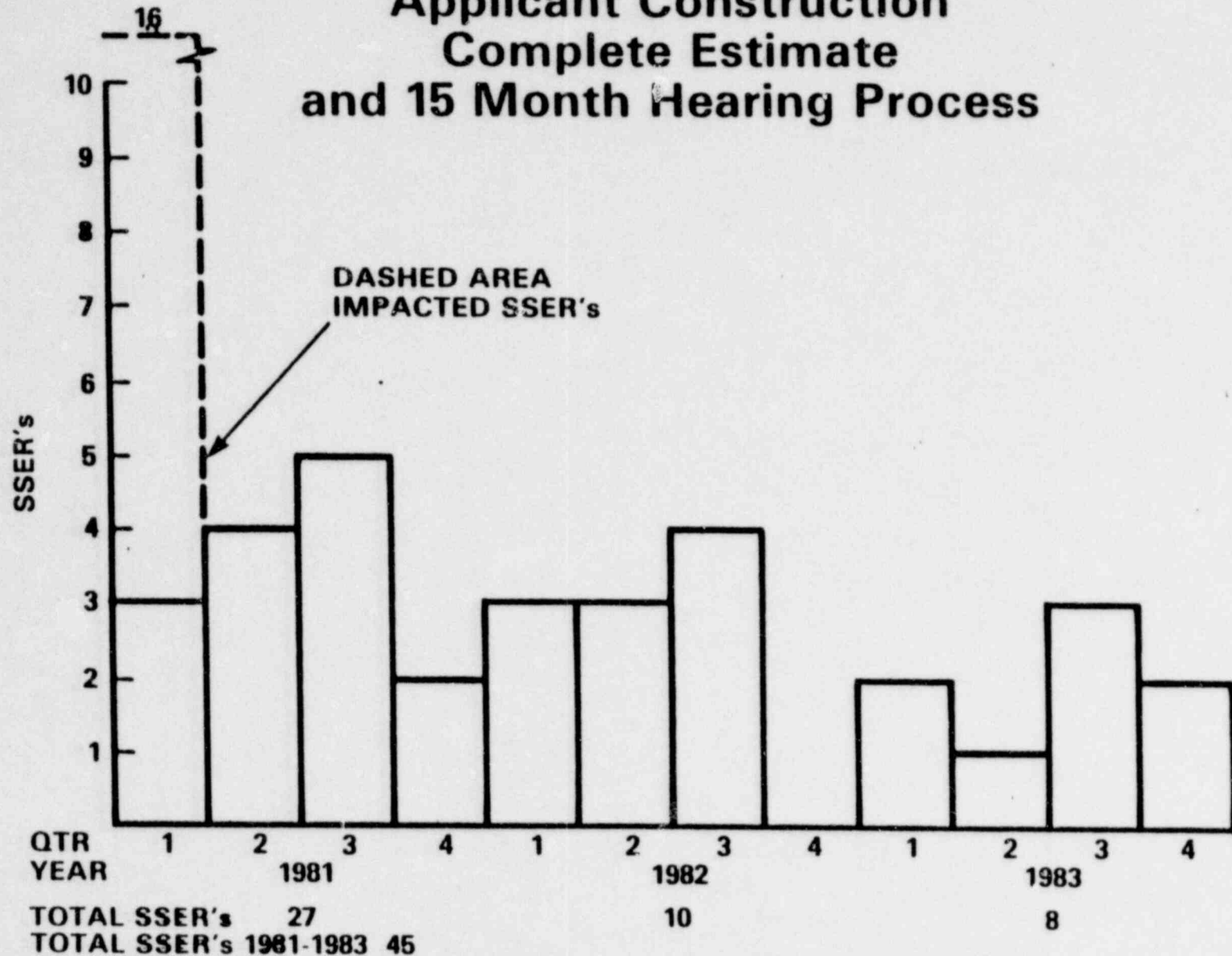
NOTE: PLANTS COMPLETED IN FY 1980 WERE NOT IMPACTED BY THE HEARING PROCESS BECAUSE THEY WERE EITHER NOT CONTESTED (SEQUOYAH, SALEM AND FARLEY) OR THE HEARING WAS COMPLETED EARLIER (NORTH ANNA).



# **SSER's Schedule Based on NRC Construction Complete Schedule and 9 Month Hearing Process**



# SSER Schedule Based on Applicant Construction Complete Estimate and 15 Month Hearing Process



2/25/81

## CY 1981-1982 PLANTS

Plant	Estimated Impact (Months)		SER			SSER		Start of Hearing (1)	NRC Decision Date (1)	Construction Completion (2)	
	NRC	APPL	Staff Technical Input to DL	Issue SER (1)	ACRS Mtg	Staff Technical Input to DL	Issue SSER (1)			NRC	APPL
Salem 2	12	12	(C)	(C)	None	(C)	(C)	None	4/81	4/18/80(C)	4/16/80(C)
LaSalle 1 & 2	0	0	2/18/81	2/28/81	4/09/81	4/30/81	5/15/81	None	5/81	9/81	6/81
San Onofre 2 & 3	6	12	(C)	2/06/81(C)	3/12/81	2/19/81(TMI)	2/24/81(TMI)				
						4/17/81	5/8/81	07/81	4/82	10/81	4/15/81
Diablo Canyon 1 & 2											
Low Power	11	13	(C)	(C)	None	2/20/81	2/28/81	05/81	2/82	3/81	1/81
Full Power	12	14	(C)	(C)	None	3/17/81	3/31/81	05/81	3/82	3/81	1/81
McGuire 1 & 2											
Low Power	0	0	None	None	None	(C)	1/81(C)	2/24/81(H <sub>2</sub> )	1/23/81(1)	1/23/81(C)	1/23/81(C)
Full Power	13	13	(C)	(C)	None	2/28/81	3/20/81	06/81	3/82	1/28/81(C)	1/28/81(C)
Farley 2											
Low Power	0	0	(C)	(C)	None	None	None	None	10/23/80(1)	10/23/80(C)	10/22/80(C)
Full Power	0	1	None	None	None	2/19/81(C)	3/02/81	None	3/81	3/81	2/81
Shoreham 1	1	5	3/10/81	3/31/81	5/07/81	6/10/81	7/3/81	01/82	10/82	9/82	5/31/82
Summer 1	8	10	(C)	2/06/81(C)	3/12/81	3/24/81	4/15/81	07/81	6/82	10/81	8/81
Susquehanna 1 & 2	8	17	3/23/81	4/06/81	5/07/81	5/26/81	6/15/81	10/81	11/82	3/82	6/81
Sequoyah 2	1	0	(C)	(C)	None	4/01/81	4/15/81	None	4/30/81	6/81	4/15/81
Zimmer 1	3	8	(C)	(C)	None	5/01/81	5/29/81	10/81	7/82	4/82	11/81
Waterford 3	3	3	5/08/81	5/30/81	7/09/81	7/16/81	7/31/81	03/82	1/83	10/82	10/82
Comanche Peak	2	14	5/22/81	6/11/81	7/09/81	7/17/81	8/12/81	03/82	2/83	12/82	12/81
Fermi 2	0	0	6/10/81	6/30/81	8/09/81	8/14/81	8/31/81	02/82	11/82	11/82	11/82
Grand Gulf 1	0	0	8/14/81	9/07/81	10/13/81	10/25/81	11/15/81	None	12/81	7/82	12/81
Watts Bar 1 & 2	0	1	9/11/81	10/09/81	11/12/81	11/26/81	12/11/81	None	1/82	8/82	11/81
WNP 2	0	0	(Later)	3/82	4/82	(Later)	6/82	None	7/82	7/83	7/82

DEVELOPMENT OF PROPOSAL FOR RECOVERY PLAN

CHAIRMAN AHEARNE'S FEBRUARY 13TH MEMO REQUESTED  
STAFF TO PREPARE PRESENTATION TO COVER

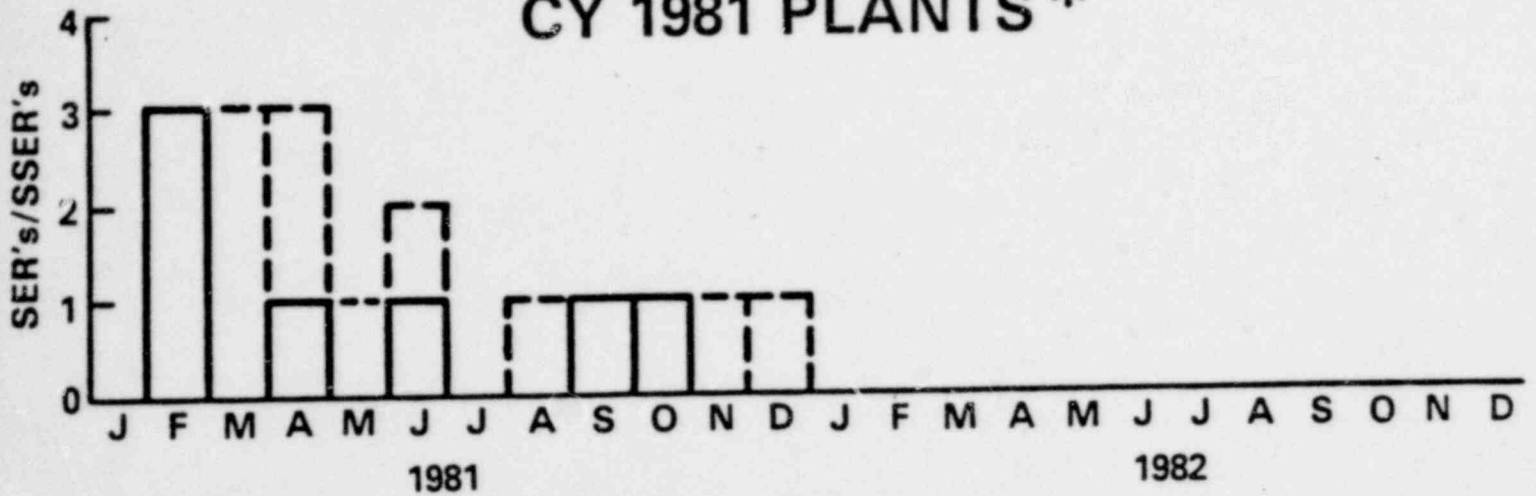
1. PLANT-BY-PLANT STATUS
2. PROPOSALS TO TRANSFER NRR AND OTHER STAFF  
FROM LOWER PRIORITY TO LICENSING REVIEWS
3. PROPOSALS TO OBTAIN PEOPLE FROM OUTSIDE NRC
4. PROPOSALS TO EXPEDITE ADJUDICATORY PROCESS  
(NOT ADDRESSED IN THIS BRIEFING)

J

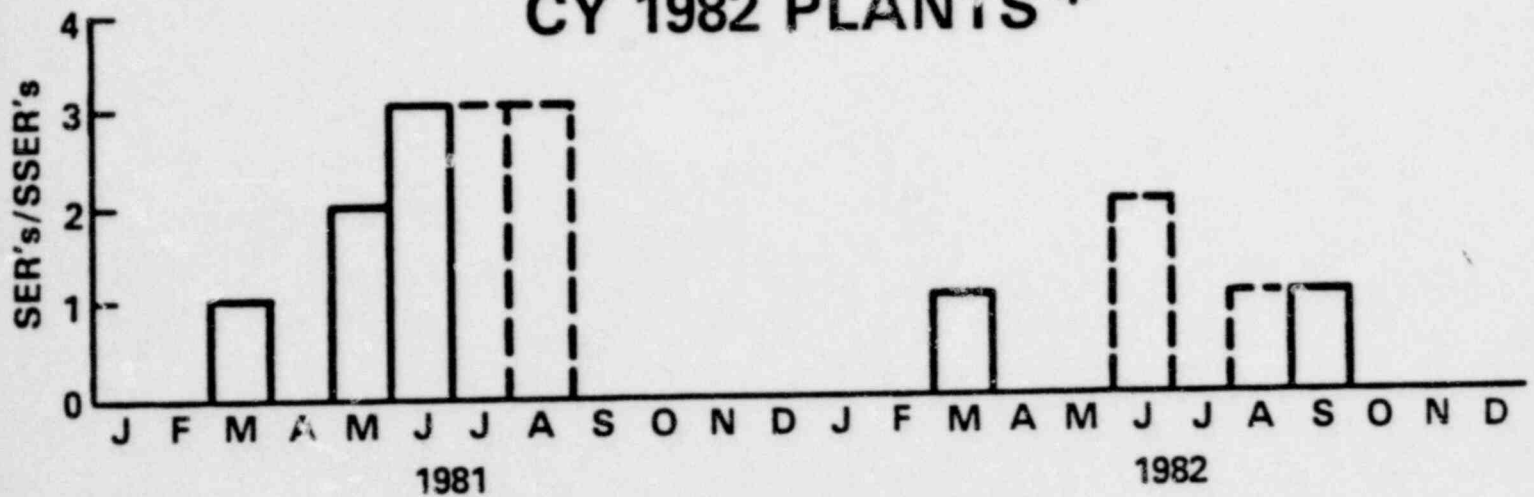
ASSUMPTIONS USED FOR  
DEVELOPING A RECOVERY PLAN

- . NO NEAR TERM RELIEF FROM EXTENDED HEARING PROCESS
  
- . NRR WILL SCHEDULE SER/SSER ISSUANCE DATES BASED ON THE APPLICANT'S CONSTRUCTION COMPLETION DATES (TO THE EXTENT PRACTICABLE)
  
- . ENVIRONMENTAL REVIEWS NOT ON CRITICAL PATH
  
- . QUALITY OF STAFF SER TO REMAIN HIGH

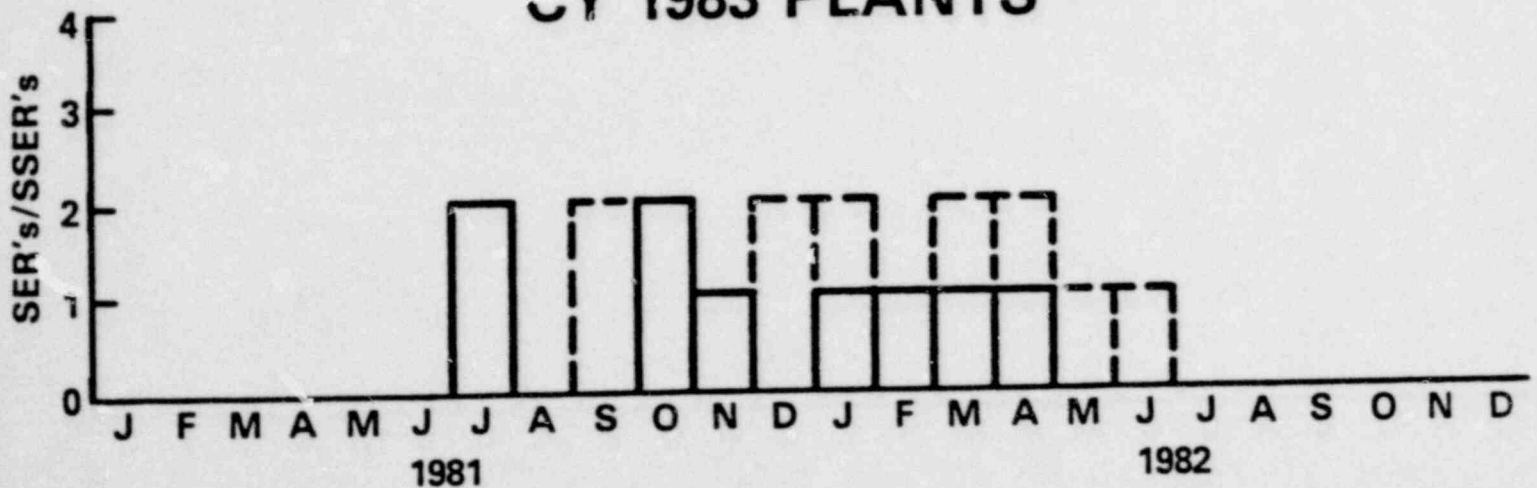
# CY 1981 PLANTS \*



# CY 1982 PLANTS \*



# CY 1983 PLANTS \*

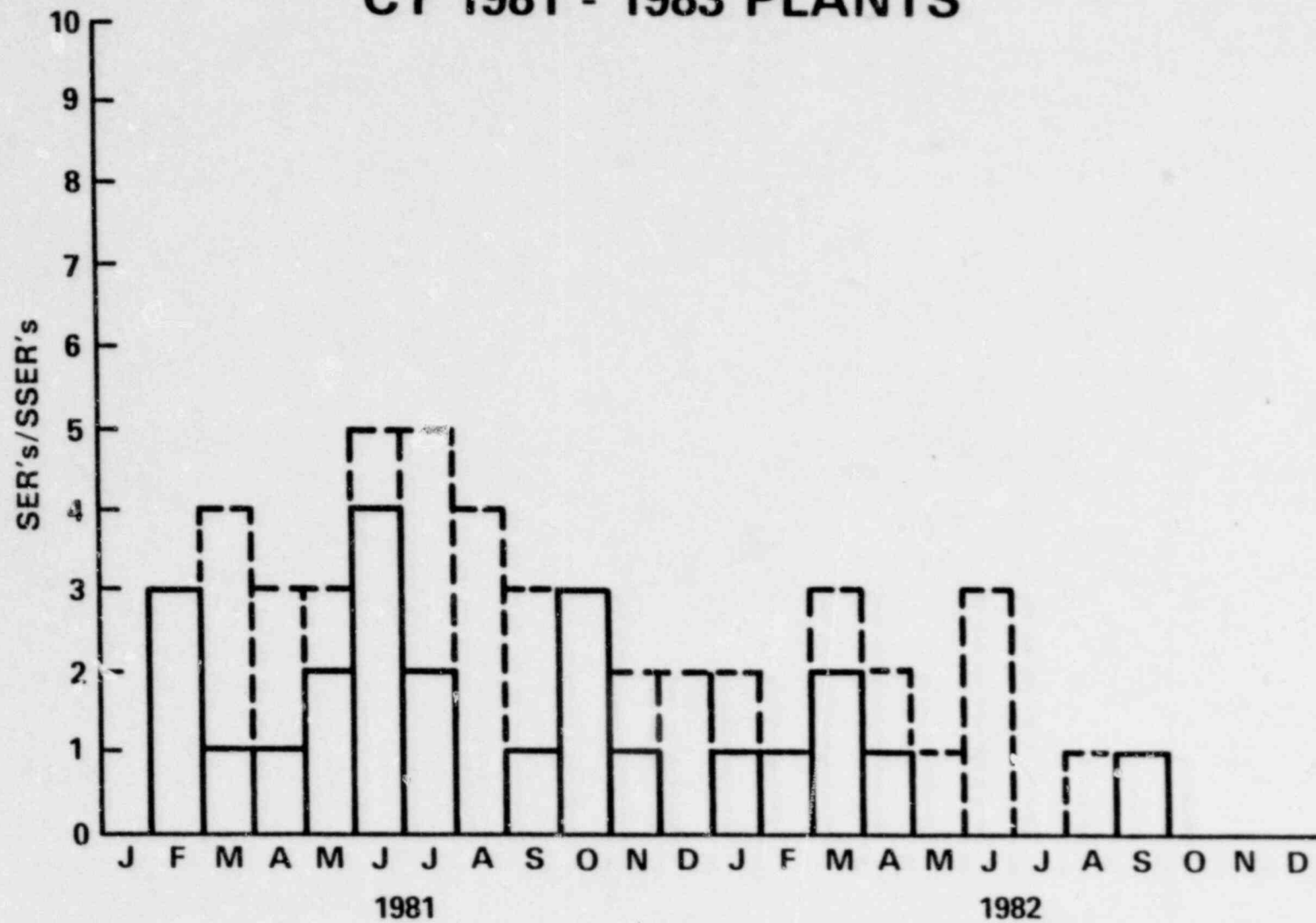


SOLID - SER  
DASHED - SSER

\* APPLICANT CONSTRUCTION  
COMPLETE SCHEDULE



# CY 1981 - 1983 PLANTS



SOLID - SER  
DASHED - SSER

## PROPOSED RECOVERY PLAN

### 1. BETTER PRIORITIZATION AND MANAGEMENT OF NRR WORK

- ACCELERATE OL-SER SCHEDULES WHERE FLEXIBILITY EXISTS TO AVOID IMPACTING PLANTS
- ESTABLISH NRR PRIORITY SETTING STEERING GROUP
- INCREASED MANAGEMENT ATTENTION TO OL REVIEWS (WEEKLY REVIEW MEETINGS)

### 2. CHANGES TO NRR STAFF REVIEW PROCESS

- REVIEWERS DEDICATED TO FINISH DRAFT AND FINAL SER/SSER DURING PERIOD IMMEDIATELY BEFORE INPUT DUE
- UTILITIES WILL BE REQUESTED TO HAVE REVIEW TEAM AT BETHESDA DURING FINALIZATION OF SER
- PLAN TO ESTABLISH DEDICATED CP REVIEW GROUP
- LIMIT/ELIMINATION OF 0-2'S (NEAR TERM PAYOFF)
- INDEPENDENT DESIGN REVIEW GROUPS (LONGER TERM PAYOFF)

PROPOSED RECOVERY PLAN CON'T

3. NRR WILL REDIRECT RESOURCES FROM OTHER PROGRAMS TO CASEWORK CONSISTENT WITH SAFETY PRIORITIES AND AS APPROVED BY THE EDO. POSSIBLE AREAS FOR PARTIAL DEFERRAL OR CONTRACTUAL ASSISTANCE INCLUDE

- REGULATORY REQUIREMENTS (E.G., SRP REVISION, ASSISTANCE TO SD)
- GENERIC ISSUES/STUDIES NOT DIRECTLY CASE RELATED
- TMI ACTION PLAN DEVELOPMENT AND IMPLEMENTATION
- OPERATING EXPERIENCE EVALUATION
- UNRESOLVED SAFETY ISSUES
- SEP
- TMI CLEANUP OVERSIGHT

PROPOSED RECOVERY PLAN CON'T

4. EDO REDIRECTION OF RESOURCES TO NRR

- 52 PROFESSIONALS TO BE ASSIGNED AS SOON AS POSSIBLE

TL - 10 PM's

DSI - 4 EE, 4NE, 3 ME, 2 CHE

DOE - 2 ME, 4 GEOLOGIST/HYDROLOGIST - 2 EE  
2 MAT, E, 1 CHE

DHFS - 8 NE, 2 HF

DST - 8 NE

- 8 CLERICALS TO BE ASSIGNED FOR SUPPORT OF LICENSING EFFORT

- ADDITIONAL \$2 MILLION FOR PROGRAM SUPPORT

- TRAVEL SUFFICIENT TO MEET ACCELERATED SCHEDULES WILL BE PROVIDED (MINIMUM: RESTORE NRR FULL TRAVEL APPROPRIATION)

- NRR WILL BE RELIEVED OF REQUIREMENT TO PROVIDE DUTY OFFICER FOR NRC OPERATIONS CENTER

- ADDITIONAL WORK WILL NOT BE ASSIGNED TO NRR WITHOUT EDO APPROVAL

- EXCLUDES NEED FOR ADDITIONAL OPERATOR LICENSING EXAMINERS

PROPOSED RECOVERY PLAN CON'T

5. APPROVAL FOR NRR TO HIRE TO CEILING

(21 ACCEPTANCES AND 16 OUTSTANDING OFFERS)

6. SUCCESS OF ONGOING EFFORT DEPENDS UPON

I&E/FEMA - EMERGENCY PREPAREDNESS REVIEWS

ELD/ALSB - ABILITY TO HANDLE INCREASED NUMBER OF HEARINGS

ACRS - SCHEDULING OF SER REVIEWS

NMSS - SAFEGUARD REVIEWS

7. - MANDATORY OVERTIME FOR ALL NRR EMPLOYEES (SATURDAY - 1/2  
DAY - EMPHASIS ON CASEWORK)

## ALTERNATIVE PROPOSAL

REQUEST CONGRESS TO PROVIDE STATUTORY AUTHORITY TO  
ISSUE AN OL UPON COMPLETION OF PLANT CONSTRUCTION,  
FAVORABLE STAFF REVIEW, AND COMMISSION APPROVAL  
WHEN DEEMED ESSENTIAL

- 2 YEAR TEMPORARY OPERATING LICENSE  
ISSUED BY DIRECTOR, NRR
- FULL TERM OPERATING LICENSE ISSUED BY COMMISSION  
AFTER ASLR HEARING ON ANY CONTESTED ISSUES



## SUMMARY OF PROPOSED RECOVERY PLAN

- BETTER PRIORITIZATION AND MANAGEMENT OF NRR CASE WORK
- CHANGES TO NRR STAFF REVIEW PROCESS
- NRR REDIRECTION OF RESOURCES FROM OTHER NRR PROGRAMS
- EDO REDIRECTION OF OTHER NRC RESOURCES TO NRR
- APPROVAL FOR NRR TO HIRE TO CEILING
- SUCCESS DEPENDS ON COOPERATION FROM OTHERS
- NRR MANDATORY OVERTIME

## ALTERNATIVE PROPOSAL

- STATUTORY AUTHORITY TO ISSUE OL UPON COMPLETION OF PLANT CONSTRUCTION

INDIVIDUAL  
OPERATING LICENSE  
PLANTS

FEB 26 1991

## CY 15 - 1982 PLANTS

FEB 26 1981

Plant	Estimated Impact (Months)		SER			SSER		Start of Hearing (1)	NRC Decision Date (1)	Construction Completion (2)	
	NRC	APPL	Staff Technical Input to DL	Issue SER (1)	ACRS Mtg	Staff Technical Input to DL	Issue SSER (1)			NRC	APPL
Salem 2	12	12	(C)	(C)	None	(C)	(C)	None	4/81	4/16/80(C)	4/16/80(C)
LaSalle 1 & 2	0	0	2/18/81	2/28/81	4/09/81	4/30/81	5/15/81	None	5/81	9/81	6/81
San Onofre 2 & 3	6	12	(C)	2/06/81(C)	3/12/81	2/19/81(TMI)	2/24/81(TMI)				
						4/17/81	5/8/81	07/81	4/82	10/81	4/15/81
Diablo Canyon 1 & 2											
Low Power	11	13	(C)	(C)	None	2/20/81	2/28/81	05/81	2/82	3/81	1/81
Full Power	12	14	(C)	(C)	None	3/17/81	3/31/81	05/81	3/82	3/81	1/81
McGuire 1 & 2											
Low Power	0	0	None	None	None	(C)	1/81(C)	2/24/81(H <sub>2</sub> )	1/23/81(1)	1/23/81(C)	1/23/81(C)
Full Power	13	13	(C)	(C)	None	2/28/81	3/20/81	06/81	3/82	1/28/81(C)	1/28/81(C)
Farley 2											
Low Power	0	0	(C)	(C)	None	None	None	None	10/23/80(1)	10/23/80(C)	10/22/80(C)
Full Power	0	1	None	None	None	2/19/81(C)	3/02/81	None	3/81	3/81	2/81
Shoreham 1	1	5	3/10/81	3/31/81	5/07/81	6/10/81	7/3/81	01/82	10/82	9/82	5/31/82
Summer 1	8	10	(C)	2/06/81(C)	3/12/81	3/24/81	4/15/81	07/81	6/82	10/81	8/81
Susquehanna 1 & 2	8	17	3/23/81	4/06/81	5/07/81	5/26/81	6/15/81	10/81	11/82	3/82	6/81
Sequoyah 2	1	0	(C)	(C)	None	4/01/81	4/15/81	None	4/30/81	6/81	4/15/81
Zimmer 1	3	8	(C)	(C)	None	5/01/81	5/29/81	10/81	7/82	4/82	11/81
Waterford 3	3	3	5/08/81	5/30/81	7/09/81	7/16/81	7/31/81	08/82	1/83	10/82	10/82
Comanche Peak	2	14	5/22/81	6/11/81	7/09/81	7/17/81	8/12/81	01/82	2/83	12/82	12/81
Fermi 2	0	0	6/10/81	6/30/81	8/09/81	8/14/81	8/31/81	02/82	11/82	11/82	11/82
Grand Gulf 1	0	0	8/14/81	9/07/81	10/13/81	10/25/81	11/15/81	None	12/81	7/82	12/81
Watts Bar 1 & 2	0	1	9/11/81	10/09/81	11/12/81	11/26/81	12/11/81	None	1/82	8/82	11/81
WNP 2	0	0	(Later)	3/82	4/82	(Later)	6/82	None	7/82	7/83	7/82

## BELLEFONTE 1 & 2

Docket No.:	50-438/439	NRC Estimate Construction Completion:	6/84
Location:	Scottsboro, Alabama	Application Estimate Construction Completion:	6/84
Utility:	Tennessee Valley Authority	SER Issued:	2/84
Vendor:	Babcock & Wilcox	SSER Issued:	5/84
Reactor Type:	PWR	ASLB Decision:	N/A
Containment Type:	Post tensioned reinforced concrete	OL Issuance Estimated:	6/84
Architect/Engineer:	Tennessee Valley Authority		
MWe Rating:	1235		

### Overview

CP Issued: 12/24/74

Major Issues at CP Stage: No hearing is anticipated

OL FSAR Docketed: 6/12/78      Last Amendment Submitted: Amendment 20 1/16/81

### Safety Review Status

- . Status of Q-1, Q-2: Q-1's expected 7/82
- . Number of basic subject of Outstanding Issues Non-TMI: to be determined
- . Number of basic subject of Outstanding Issues - TMI: all applicable NUREG-0737 items
- . ACRS Meeting: 3/84 E
- . Commission Briefing: 5/84 E
- . Emergency Planning:

### Environmental Review Status

- . DES Date: 1/82
- . FES Date: 7/82
- . Class 9 Evaluation Required: yes

### Hearings

- . Noticed: 7/17/78 No Hearing is anticipated

## BRAIDWOOD

Docket No.:	50-456/457	NRC Estimate Construction Completion:	4/85
Location:	Joliet, Illinois	Application Estimate Construction Completion:	4/85
Utility:	Commonwealth Edison Co.	SER Issued:	8/82
Vendor:	Westinghouse	SSER Issued:	9/84
Reactor Type:	PWR	ASLB Decision:	2/85
Containment Type:	Reinforced concrete cylinder with steel liner	OL Issuance Estimated:	4/85
Architect/Engineer:	Sargent & Lundy		
MWe Rating:	1120		

### Overview

CP Issued: 12/75      CP Hearings: 1/18/75

Major Issues at CP Stage: Turbine missiles, asymmetric blowdown forces on R.V. supports

OL FSAR Docketed: 11/30/78      Last Amendment Submitted: Amendment 28, 10/80

### Safety Review Status

- . Status of Q-1, Q-2: Q-1's complete; Q-2's partially complete
- . Number and basic subject of Outstanding Issues Non-TMI: unknown
- . Number and basic subject of Outstanding Issues - TMI: 0737
- . Unique Design Features: None
- . ACRS Meeting: 8/82
- . Commission Briefing: 3/85 E
- . Emergency Planning:

### Environmental Review Status

- . DES Date: 6/1/83
- . FES Date: 2/84
- . Class 9 Evaluation Required: Yes

### Hearings

- . Noticed: 12/15/78      Discovery Completed: 2/84      Expected Start: 4/84  
Expected End: 12/84
- . Major Intervenors: Miss Bridget Little Rorem  
Bob Niener Farms
- . Major Contentions: QA/QC Requirements; Financial Qualifications, Emergency Planning

## BYRON UNIT 1

Docket No.:	50-454/455	NRC Estimate Construction	
Location:	Rockford, Illinois	Completion:	4/83
Utility:	Commonwealth Edison Co.	Application Estimate	
Vendor:	Westinghouse	Construction Completion:	4/83
Reactor Type:	PWR	SER Issued:	8/82
Containment Type:	Reinforced concrete cylinder with steel liner	SSER Issued:	9/82
		ASLB Decision:	2/83
Architect/Engineer:	Sargent & Lundy	OL Issuance Estimated:	4/83
MWe Rating:	1120		

### Overview

CP Issued: 12/75 CP Hearings: 11/18/75

Major Issues at CP Stage: Geological structures at the site, turbine missiles, asymmetric blowdown forces on R.V. supports

OL FSAR Docketed: 11/30/78 Last Amendment Submitted: Amendment 28, 10/80

### Safety Review Status

- . Status of Q-1, Q-2: Q-1's complete, Q-2's partially complete
- . Number of basic subject of Outstanding Issues Non-TMI: Unknown
- . Number of basic subject of Outstanding Issues - TMI: 0737
- . Unique Design Features: None
- . ACRS Meeting: 7/82
- . Commission Briefing: 3/83 E
- . Other Items: Deconvolution
- . Emergency Planning:

### Environmental Review Status

- . DES Date: 12/1/81
- . FES Date: 5/82
- . Class 9 Evaluation Required: Yes

### Hearings

- . Noticed: 12/15/78 Discovery Completed: 5/82 Expected Start: 7/82  
Expected End: 12/82
- . Major Intervenors: Mrs. Phillip B. Johnsen  
Mrs. Julianne Mahler
- . Major Contentions: QA - QC Requirements; Financial Qualifications, Emergency Planning



## CALLAWAY UNIT 1

Docket No.:	50-483	NRC Estimate Construction Completion:	2/83
Location:	Callaway County, Missouri	Application Estimate Construction Completion:	10/82
Utility:	Union Electric Company	SER Issued:	4/82
Vendor:	Westinghouse	SSER Issued:	7/82
Reactor Type:	PWR	ASLB Decision:	12/82
Containment Type:	Dry - Pre stress concrete	OL Issuance Estimated:	2/83
Architect/Engineer:	Bechtel		
MWe Rating:	1150		

### Overview

CP Issued: 4/16/76 CP Hearings: 12/9/75 to 1/29/76

Major Issues at CP Stage: Financial Qualif., Geology underground caverns

OL FSAR Docketed: 8/80 Last Amendment Submitted: None-Revision I to SNUPPS  
FSAR Submitted

### Safety Review Status

- . Status of Q-1, Q-2: Q-1, not yet transmitted to applicant-estimated transmitted date 3/6/81
- . Number of basic subject of OL standing Issues Non-TMI: Not yet known
- . Number of basic subject of Outstanding Issues - TMI: 0737
- . Unique Design Features: None
- . ACRS Meeting: 5/82 E
- . Commission Briefing: 1/83 E
- . Emergency Planning:

### Environmental Review Status

- . DES Date: 7/81
- . FES Date: 12/81
- . Class 9 Evaluation Required: Yes

### Hearings

- . Noticed: 11/21/80 Discovery Completed: No Expected Start: 8/1/82  
Expected End: 10/1/82
- . Major Intervenors: Not known as of now
- . Major Contentions: Not known as of now

PLANT NAME: CLINTON POWER STATION, UNITS 1 & 2

Docket No.:	50-461/462	NRC Estimate Construction	
Location:	DeWitt County, Illinois	Completion:	8/83 (1)
Utility:	Illinois Power Company	Applicant Estimate	1/90 (2)
Vendor:	General Electric	Construction Completion:	1/83 (1)
Reactor Type:	BWR-6		N/S (2)
Containment Type:	Mark III Pressure Suppression	SER Issued:	8/82
Architect/Engineer:	Sargent & Lundy	SSER Issued:	1/83
MWe Rating:	933	ASLB Decision:	6/83
		OL Issuance Estimated:	8/83

#### Overview

CP Issued: 2/24/76 CP Hearings: (E) 6/17/75-7/3/75 (S) 1/7/76-1/8/76  
Major Issues at CP Stage: Mark III design, seismic bases, need for power  
OL FSAR Docketed: 9/8/80 Last Amendment Submitted: #2-12/30/80

#### Safety Review Status

- Schedule: Q 1 - 7/17/81, Q 2 - 2/82, ACRS - 11/82
- FSAR will include all NUREG-0660 issues (2/81)
- first complete NUCLENET control room
- Emergency Planning

#### Environmental Review Status

- ER docketed 9/8/80
- DES to be issued 10/81
- FES to be issued 3/82

#### Hearings

- Prehearing Conference - 1/29/81
- Combined hearing start - 2/83, end - 4/83
- Major Intervenors - Prairie Alliance, Illinois (interested state)
- Major Contentions - General Safety (e.g., unresolved safety issues)

#### Other Special Problems or Considerations

- Considerable media interest - "60 Minutes" report
- Unit 2 - Deferred (construction halted except for common areas)

## COMANCHE PEAK

Docket No.:	50-445/446	NRC Estimate Construction Completion:	12/82
Location:	Somervell County, Texas	Application Estimate Construction Completion:	12/81
Utility:	Texas Util. Gen. Co.	SER Issued:	6/81
Vendor:	Westinghouse	SSER Issued:	8/81
Reactor Type:	PWR-4 loop (RESAR-3)	ASLB Decision:	11/82
Containment Type:	steel lined reinforced concrete	OL Issuance Estimated:	2/83
Architect/Engineer:	Gibbs & Hill		
MWe Rating:	1161		

### Overview

CP Issued: 12/19/74      CP Hearings: 11/25/74      to 11/26/74

Major Issues at CP Stage: None

OL FSAR Docketed: 5/12/78      Last Amendment Submitted: 1/30/81

### Safety Review Status

- . Status of Q-1, Q-2: Q-2's are 95% issued with about 90% responses received
- . Number and basic subject of Outstanding Issues Non-TMI: Unknown-SER input outstanding
- . Number and basic subject of Outstanding Issues - TMI: Unknown-Applicant responses in latest FSAR Amendment - SER inputs outstanding
- . Unique Design Features: This is first OL with equipment qualified to IEEE-323-1974. This is the lead Westinghouse plant incorporated their "instrumentation upgrade package", and design in response to boron dilution transients
- . ACRS Meeting: 7/81(E)
- . Commission Briefing: 12/82 E
- . Other Items of Importance, Potential Problems: Equipment qualification for accident environmental & fire protection are receiving extra effort by the applicant
- . Emergency Planning: Applicant is revising their Emergency Plans submitted in Oct, to incorporate NUREG-0654, Rev. 1,

### Environmental Review Status

- . DES Date: 3/81
- . FES Date: 8/81
- . Class 9 Evaluation Required: yes
- . Other Items: None

### Hearings

- . Noticed: 2/5/79      Discovery Completed: In progress      Expected Start: late 3/82  
Expected End: late 6/82
- . Major Intervenors: Citizens Association for Sound Energy (CASE)  
Association of Community Organization for Reform Now (ACRON)  
Citizens for Fair Utility Regulation (CFUR)
- . Major Contentions: The ASLB has accepted 24 contentions. More important ones relate to QA/QC during construction, emergency planning, and a list of unresolved safety issues

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## DIABLO CANYON UNITS 1 & 2

Docket No.:	50-273/325	NRC Estimate Construction	#1	3/81
Location:	San Luis Obispo, Ca.	Completion:	#2	10/81
Utility:	Pacific Gas & Electric Co.	Application Estimate	#1	3/81
Vendor:	Westinghouse	Construction Completion:	#2	10/81
Reactor Type:	PWR	SER Issued:	10/74, 8/80 (LP)	
Containment Type:	Dry	SSER Issued:		3/81
		ASLR Decision:		11/81
Architect/Engineer:		OL Issuance Estimated:	#1	3/82
MWe Rating:	#1 1084; #2 1106		#2	3/82

### Overview

CP Issued: 4/23/68; 12/9/70 CP Hearings: 2/20/68; 1/13/70 to 2/21/68; 8/7/70  
Major Issues at CP Stage: Seismic, evacuation plan, storage-disposal and transportation of radioactive waste.  
OL FSAR Docketed: 10/2/73 Last Amendment Submitted: 85

### Safety Review Status

- . Status of Q-1, Q-2: Complete; however, certain issues that are identified as we receive SER inputs where it is found that the applicant does not meet our position
- . Number and basic subject of Outstanding Issues Non-TMI: 7 will have to be resolved: DOE - 4 (Equipment Qual., Q-List, GDC-51, and masonry walls); DSI - 2 (Containment Sump debris, Cont. penetration heat x for.)
- . Number and basic subject of Outstanding Issues - TMI: 8 low power issues and all but 2 FP issues; DSI-1, EPP0-1
- . Emergency Planning:
- . Unique Design Features: None
- . ACRS Meeting: 7/6/78
- . Commission Briefing: 2/82(E)

### Environmental Review Status

- . DES Date: 12/12/72
- . FES Date: 5/30/73
- . Class 9 Evaluation Required: Not required

### Hearings

- . Noticed: 1/1/74 Discovery Completed: 3/25/81 Expected Start: 5/81 Expected End: 6/81
- . Major Intervenors: 1. Governor Brown, CA.; 2. Joint Intervenors
- . Major Contentions: Seismic, Security, QA, Environmental Qualifications, Emergency plan, TMI-issues

### Review Status

TMI Issues: 1 low power issue (emergency plans) and all but 2 full power issues need not be reviewed.

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DIABLO CANYON UNITS 1 & 2

TMI Issues (Cont.):

DSI - III.A.2 - Emergency Preparedness

OI&E - (Division of Emergency Preparedness - III.A.2 - Emergency Preparedness)

Non-TMI Issues: 7 outstanding issues (QA, environmental qualifications, metalurgy, sump debris)

DE - (Environmental Qualification of Class IE Equipment; Acceptability of QA-Q List; Containment Boundary fracture toughness; Masonry Walls)

DSI - (Acceptability of heat transfer analysis for containment penetration cable; sump debris)

DHFS - (ATWS - acceptability of procedures)

FARLEY 2

Docket No.: 50-364  
Location: Houston County  
Utility: Alabama Power Company  
Vendor: Westinghouse  
Reactor Type: PWR - 3 Loop  
Containment Type: Dry

Architect/Engineer: Bechtel  
M&E Rating: 829

NRC Estimate Construction  
Completion: 3/81  
Application Estimate  
Construction Completion: 2/81  
SER Issued: 5/75  
SSER Issued: 2/81  
ASLB Decision: N/A  
OL Issuance Estimated: 3/81

Overview

CP Issued: 8/72 CP Hearings: 6/72

Major Issues at CP Stage: N/A

OL FSAR Docketed: 8/73 Last Amendment Submitted: 9/80

Safety Review Status

. Status of Q-1, Q-2: Completed

. Number and basic subject of Outstanding Issues Non-TMI: 0

. Number and basic subject of Outstanding Issues - TMI: 0

. ACRS Meeting: N/A

. Commission Briefing: 3/11/81 (E)

. Emergency Planning: FEMA Letter 3/11/81 (E)

Environmental Review Status: Completed

Hearings: None

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## FERMI 2

Docket No.:	50-341	NRC Estimate Construction	
Location:	Monroe County, Michigan	Completion:	11/82
Utility:	Detroit Edison Company	Application Estimate	
Vendor:	General Electric	Construction Completion:	11/82
Reactor Type:	BWR	SER Issued:	6/81
Containment Type:	Mark I	SSER Issued:	8/81
		ASLR Decision:	8/82
Architect/Engineer:	Detroit Edison/Sargent &	OL Issuance Estimated:	11/82
MWe Rating:	1154 MWe, gross	Lundy	

### Overview

CP Issued: 9/72 CP Hearings: 6/72 (Environmental); 10/71 (Safety)

Major Issues at CP Stage: Blasting at Quarry, cooling towers

OL FSAR Docketed: 6/75 Last Amendment Submitted: 1/81

### Safety Review Status

- . Status of Q-1, Q-2: Completed, except TMI responses
- . Number and basic subject of Outstanding Issues Non-TMI: 49 Reactor Systems
- . Number and basic subject of Outstanding Issues - TMI: 0737
- . Unique Design Features:
- . ACRS Meeting: 1/82
- . Commission Briefing: 5/83
- . Emergency Planning:

### Environmental Review Status

- . DES Date: 5/81
- . FES Date: 8/81
- . Class 9 Evaluation Required: Yes

### Hearings

- . Noticed:9/78 Discovery Completed:10/78 Expected Start:2/82 Expected End:1/83
- . Major Intevenors: Citizens for Employment and Energy
- . Major Contentions:
  - . Quality control during construction



GRAND GULF NUCLEAR STATION, UNITS 1 & 2

Docket No.:	50-416/417	NRC Estimate Construction	#1	7/82
Location:	Vicksburg, Mississippi	Completion:	#2	8/85
Utility:	Mississippi Power & Light	Application Estimate	#1	12/81*
Vendor:	General Electric	Construction Completion:	#2	8/85
Reactor Type:	BWR 6	SER Issued:		9/7/81E
Containment Type:	Mark III	SSER Issued:		11/15/81E
Architect/Engineer:	Bechtel	ASLR Decision:	No OL Hearing	
MWe Rating:	1250 (Each Unit)	OL Issuance Estimated:	#1	7/82
		(12/81 Comm. Dec.)	#2	8/85
			*1/16/81 Ltr.	

Overview

CP Issued: 9/3/74 CP Hearings: 2/74 to 8/74

Major Issues at CP Stage: Combustible Gas Control, Seismic Issues, Financial Qualifications.

OL FSAR Docketed: 6/27/78 Last Amendment Submitted: 12/80 (Amendment 45)

Safety Review Status

- . Status of Q-1, Q-2: Q-1 Responses virtually complete, 50% of Q-2's issued with most responses received. Draft SER procedure being pursued.
- . Number and basic subject of Outstanding Issues Non-TMI: Mark III Containment Loads (DE/DSI), ATWS (DSI)
- . Number and basic subject of Outstanding Issues - TMI: All TMI issues outstanding. Major items: Hydrogen Control (DSI), Equipment Qualification (DE)
- . Emergency Planning:
- . Unique Design Features: BWR-6, Mark III Containment
- . ACRS Meeting: 10/13/81
- . Commission Briefing: 12/81 (E)
- . Other Items of Importance, Potential Problems: Lead BWR-6, Mark III Plant; Draft SER procedure being used to expedite review process; OL Review schedule consistent with applicant's construction - complete schedule

Environmental Review Status

- . DES Date: 3/81E
- . FES Date: 7/81E
- . Class 9 Evaluation Required: Yes

Hearings No OL Hearing

## LASALLE 1 & 2

Docket No.:	50-373/374	NRC Estimate Construction	
Location:	Seneca, Illinois	Completion:	6/81
Utility:	Commonwealth Edison Company	Application Estimate	
Vendor:	General Electric	Construction Completion:	6/81
Reactor Type:	BWR	SER Issued:	2/81
Containment Type:	Mark II	SSER Issued:	5/81
		ASLR Decision:	5/81
Architect/Engineer:	Sargent & Lundy	OL Issuance Estimated:	6/81
MWe Rating:	3293 MW		

### Overview

CP Issued: 9/73 CP Hearings: 1/73 to 7/73

Major Issues at CP Stage: size of cooling lake, providing vacuum relief valve, seal system for MSIV

OL FSAR Docketed: 5/11/77 Last Amendment Submitted: Amendment 54-2/3/81

### Safety Review Status

- . Status of Q-1, Q-2: Complete
- . Number and basic subject of Outstanding Issues Non-TMI: 12 issues
- . Number and basic subject of Outstanding Issues - TMI: 11 issues
- . Unique Design Features: Two unit boiling water reactors with prestressed concrete containment with over under water-suppression design
- . ACRS Meeting: 4/81 E
- . Commission Briefing: 5/81 E
- . Other Items of Importance, Potential Problems: Potential problems are projected in equipment qualification and inservice inspection of material, pumps and valves.
- . Emergency Planning:

### Environmental Review Status

- . DES Date: 3/78
- . FES Date: 11/78
- . Class 9 Evaluation Required: Not required

### Hearings N/A

### Other Special Problems or Considerations

- . First boiling water reactor through the Post-TMI operating license review process
- . First BWR/5 Mark II through the review process
- . Containment will be inerted

## MCQUIRE 1 & 2

Docket No.: 50-369/370  
Location: Mecklenburg County, N.C.  
Utility: Duke Power Company  
Vendor: Westinghouse Elec. Corp.  
Reactor Type: PWR  
Containment Type: Ice Condenser

Architect/Engineer: Duke Power Company  
MWe Rating: 1180

NRC Estimate Construction #1 1/81  
Completion: #2 7/82  
Application Estimate  
Construction Completion: Same  
SER Issued: 3/78  
SSER Issued: #4 1/81  
ASLB Decision: 2/81 reopen  
OL Issuance Estimated: #1-issued  
zero power; OL 1/23/81 #2 7/82

### Overview

CP Issued: 2/28/73 CP Hearings: N/A

Major Issues at CP Stage: Quality Assurance

OL FSAR Docketed: 5/31/74 Last Amendment Submitted: No. 67 - 1/26/81

### Safety Review Status

- . Status of Q-1, Q-2: Complete
- . Number of basic subject of Outstanding Issues Non-TMI: 12 (see page 2)
- . Number of basic subject of Outstanding Issues - TMI: 30 (see page 2)
- . Unique Design Features: Ice condenser containment; upper head injection ECCS
- . ACRS Meeting: 4/7/78 C
- . Commission Briefing: Commissioner Gilinsky (Alone): 1/21/80 ZP
- . Other Items of Importance, Potential Problems: TMI hydrogen issue contested - now in ASLB hearing (2/81)
- . Emergency Planning:

### Environmental Review Status

- . DES Date: 10/29/75
- . FES Date: 4/20/76
- . Class 9 Evaluation Report: Not required

SSER (FP): 3/20/81 (Issue)  
Hearing Start: 2/81 (Reopen)  
ASLB Decision (FP): 12/81  
Commission: 3/82  
OL (FP): 3/82

### Hearings

- . Initial ASLB decision, April 1979; reopened 2/81
- . Major Intervenors: —Carolina Environmental Study Group
- . Major Contentions: TMI-2 loss-of-coolant accident hydrogen generation, combustion and breach of containment

REVIEW STATUS

TMI Issues

- . Total issues - 30
- . By Division: DE=1; DSI=23; HF=6
- . All issues are full power requirements; hydrogen control measure is contested ASLB issue

NON-TMI ISSUES

- . Seismic system & subsystem analysis; justification of piping seismic design MEB (DE)
- . Inservice testing of pumps and valves MEB (DE)
- . Evaluate underclad cracking potential in Unit 2 reactor vessel nozzles MTEB (DE)
- . ESF actuation system reset control (IE 80-06) ICSB (DSI)
- . Containment pressure boundary fracture toughness (GDC-51) MTEB (DE)
- . Loss of non-IE instrumentation & control system bus during operation (IE 79-27) ICSB (DSI)
- . Containment isolation (GDC-57) CSB (DSI)
- . ATWS PTRB (HF)
- . Fuel handling/cork drop update ASB (DSI)
- . Quality assurance for operation QAB (DE)
- . Total items (non TMI) by Division
- . DE=5
- . DSI=4
- . HF=1
- 10

## MIDLAND UNITS 1 & 2

Docket No.:	50-329/330	NRC Estimate Construction Completion:	10/83
Location:	Midland, Michigan	Application Estimate Construction Completion:	7/83
Utility:	Consumers Power Company	SER Issued:	7/82
Vendor:	Babcock & Wilcox	SSER Issued:	10/82
Reactor Type:	PWR	ASLB Decision:	7/83
Containment Type:	Dry; Bonded Steel liner	OL Issuance Estimated:	10/83
Architect/Engineer:	Bechtel		
MWe Rating:	#1 504.8; #2 852		

### Overview

CP Issued: 12/15/72 CP Hearings: 12/1/70 to 6/15/72

Major Issues at CP Stage: QA (Cadwell Splicing), Dow Chemical use of steam, Financial Qualification, Antitrust

OL FSAR Docketed: 11/18/77 Last Amendment Submitted: 87 (1/21/81)

### Safety Review Status

- . Status of Q-1, Q-2: Supplement Q-2's (New Branches & Update) - 7/1/81
- . Number and basic subject of Outstanding Issues Non-TMI: >100; Seismic, B&W Sensitivity, Soils, Instrumentation, RSB
- . Number and basic subject of Outstanding Issues - TMI: All (No review to date)
- . Emergency Planning:
- . Unique Design Features: Cogeneration ( $4 \times 10^6$  lb/hr process steam to Dow Chemical)
- . ACRS Meeting: 4/82
- . Commission Briefing: Target - 8/83
- . Other Items of Importance, Potential Problems: 1. Hearing on Soils Settlement and QA Breakdown in 6/81. 2. Reactor Vessel Holddown Bolts

### Environmental Review Status

- . DES Date: 11/15/81
- . FES Date: 04/01/82
- . Class 9 Evaluation Required: Yes
- . Other Items: Increased plant cost - Dow intentions - Value Impact Analysis; Cooling Pond Dike Failure

### Hearings OL

- . Noticed: 4/4/78 Discovery Completed: No Expected Start: 12/82 Expected End: 4/83
- . Major Intervenors: 1. Stramiris 2. Warren 3. Marshall 4. Sinclair 5. Kelly (St. Att. Gen.)
- . Major Contentions: Soil Settlement; Unresolved Safety Issues (NUREG-0510)

Other Special Problems or Considerations: CP Expires 10/1/81; Potential loss of staff soils consultants; Independent Design Review concept being considered (like Palo Verde review).

PALO VERDE UNITS 1, 2, & 3

Docket No.:	50-528/529/530	NRC Estimate Construction	#1 5/83
Location:	Phoenix, Arizona	Completion:	#2 5/84
Utility:	Arizona Public Service	Application Estimate #1-11/82; #2-11/83	#3 5/86
Vendor:	Combustion Engineering	Construction Completion:	#3-11/85
Reactor Type:	PWR	SER Issued:	7/82
Containment Type:	Dry reinforced concrete	SSER Issued:	10/82
		ASLB Decision:	3/83
Architect/Engineer:	Bechtel	OL Issuance Estimated:	5/83
MWe Rating:	1270		

Overview

CP Issued: 5/76 CP Hearings: 3/23/76 to 3/27/76

Major Issues at CP Stage: None

OL FSAR Docketed: 6/80 Last Amendment Submitted: 12/80

Safety Review Status

- . Status of Q-1, Q-2: Q-1's currently being received
- . Number and basic subject of Outstanding Issues Non-TMI: all except DC power
- . Number and basic subject of Outstanding Issues - TMI: All
- . Emergency Planning:
- . Unique Design Features: all plant cooling from Phoenix sewage effluent
- . ACRS Meeting: 8/82
- . Commission Briefing: Target: 4/83
- . Other Items of Importance, Potential Problems: CE System 80 standard plant design

Environmental Review Status

- . DES Date: 7/81
- . FES Date: 12/81
- . Class 9 Evaluation Required: Yes
- . Other Items: Site visit completed 1/30

Hearings

- . Noticed: 7/11/80 Discovery Completed: 6/81 Expected Start: 11/82 Expected End: 1/83
- . Major Intervenors: Lee Hourihan
- . Major Contentions: No assured supply of cooling water, awaiting ASLB decision on validity of other contentions

Other Special Problems or Considerations

Independent Design Review (IDR) approach being used in several review areas

2-26-81



# PERRY

Docket No.:	50-440/441	NRC Estimate Construction	#1	7/83
Location:	Painesville, Ohio	Completion:	#2	5/87
Utility:	Cleveland Elec. Ill.	Application Estimate	#1	5/83
Vendor:	General Electric	Construction Completion:	#2	5/87
Reactor Type:	BWR	SER Issued:		9/82 E
Containment Type:	MARK III	SSER Issued:		12/82 E
		ASLB Decision:		5/83 E
		OL Issuance Estimated:		7/83
Architect/Engineer:	Gilbert			
MWe Rating:	#1 1205; #2 1265			

## Overview

CP Issued: 5/3/77 CP Hearings: 9/74 to 4/77

Major Issues at CP Stage: Geological anomalies, underdrain system, need for power

OL FSAR Docketed: 1/30/81 Last Amendment Submitted: N/A

## Safety Review Status

- . Status of Q-1, Q-2: Q-1 - 6/30/81 E; Q-2 - 12/30/81 E
- . Number and basic subject of Outstanding Issues Non-TMI: Review not started
- . Number and basic subject of Outstanding Issues - TMI: 0731
- . Unique Design Features: Underground Dewatering System
- . ACRS Meeting: 10/82 E
- . Commission Briefing: 6/83 E
- . Emergency Planning: 8/82 E

## Environmental Review Status

- . DES Date: 1/82 E
- . FES Date: 6/82 E
- . Class 9 Evaluation Required: Yes

## Hearings

- . Noticed;Unknown Discovery Completed:Unknown Expected Start:1/83 Expected End:3/83
- . Major Intevenors: (for CP) - Ms. Evelyn Stebbins, Coalition for Safe Electric Power



## SALEM UNIT 2

Docket No.:	50-311	NRC Estimate Construction	
Location:	Alloways Creek Township, NJ	Completion:	4/80
Utility:	PSE&G Company	Application Estimate	
Vendor:	Westinghouse	Construction Completion:	4/80
Reactor Type:	PWR	SER Issued:	10/74
Containment Type:	Dry, Steel-lined Reinforced Concrete	SSER Issued:	6/75, 8/76, 12/78, 4/80, 1/81
Architect/Engineer:	PSE&G	ASLB Decision:	10/74
MWe Rating:	1158	OL Issuance Estimated:	4/81

### Overview

CP Issued: 9/68 CP Hearings: 8/15/68 to 8/16/68

Major Issues at CP Stage: None

OL FSAR Docketed: 8/27/71 Last Amendment Submitted: 3/6/80

### Safety Review Status

- . Status of Q-1, Q-2: Complete
- . Number and basic subject of Outstanding Issues Non-TMI: None
- . Number and basic subject of Outstanding Issues - TMI: Emergency Planning
- . Emergency Planning: FEMA's finding and determination with respect to the Delaware and N.J. State and local plans will not be available until late 4/81.
- . Unique Design Features: None
- . ACRS Meeting: 2/79
- . Commission Briefing: 1/81 C (FP)
- . Other Items of Importance, Potential Problems: Amendment package to extend expiration date of low power license in concurrence chain

### Environmental Review Status

- . DES Date: 10/72
- . FES Date: 4/73
- . Class 9 Evaluation Required: N.A.
- . Other Items: None

Hearings No hearings required

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## SAN ONOFRE UNITS 2 & 3

Docket No.:	50-361/362	NRC Estimate Construction Completion:	10/81
Location:	San Diego County, Calif.	Application Estimate Construction Completion:	4/81
Utility:	So. Calif. Edison, S.D. G&E	SER Issued:	12/80 (Partial) 2/81
Vendor:	Combustion Engineering	SSER Issued:	2/81 & 5/81
Reactor Type:	PWR	ASLB Decision:	1/82
Containment Type:	Dry	OL Issuance Estimated:	4/82
Architect/Engineer:	Bechtel		
MWe Rating:	1100		

### Overview

CP Iss'd: 10/18/73 CP Hearings: 4/73 to 6/73  
Major Issues at CP Stage: Seismology, Geology, Exclusion Area Control  
OL FSAR Docketed: 3/77 Last Amendment Submitted: 2/81

### Safety Review Status

- . Status of Q-1, Q-2: Complete
- . Number and basic subject of Outstanding Issues Non-TMI: 15: DSI - 5; EPP0 - 1; DOE - 8; NMSS - 1
- . Emergency Planning:
- . Number and basic subject of Outstanding Issues - TMI: 27: DHFS - 12; DSI - 11; EPP0 - 3; DOE - 1
- . Unique Design Features: High G Value (0.67g's)
- . ACRS Meeting: 2/5/81, 3/5/81
- . Commission Briefing: 2/82
- . Other Items of Importance, Potential Problems: FEMA review of Emergency Plan is pacing item in review

### Environmental Review Status

- . DES Date: 11/78
- . FES Date: 4/81
- . Class 9 Evaluation Required: Yes - Supplemental DES issued 1/81

### Hearings

- . Noticed: 4/77 Discovery Completed: 5/81 Expected Start: 7/81 Expected End: 11/81
- . Major Intervenors: Friends of the Earth, Guard (local enviro. group)
- . Major Contentions: Seismic - SSE not severe enough; Emergency Plan - Evacuation not possible following earthquake plus accident

### Review Status

- TMI Issues: 9 Open Issues (DHFS-7 DSI-8 EPP0-1 DE-0)
- . I.A.1.1 thru I.A.1.3 Operating Personnel
  - . I.B.1.2 Operations Management
  - . I.C.1, I.C.5, I.C.6, I.C.8 Operating Procedures
  - . II.F.2 Instrumentation for Detection of Inadequate Core Cooling
  - . II.K.1 and II.K.3 Measures to mitigate small break LOCA's
  - . III.A.1.1 Emergency Planning

SAN ONOFRE UNITS 2 & 3

Non-TMI Issues: 15 Open Issues (DHFS-0, DSI-5, EPP0-1, DE-8, NMSS-1)

- . Explosion hazards. SAB-DE
- . Toxic gas hazards. SAB-DE
- . Systems Interaction. SIB-DSI
- . Seismic qualification of equipment. EQB-DE
- . Reactor internals analysis. MEB-DE
- . Independent piping analysis. MEB-DE
- . Environmental qualification of equipment. EQB-DE
- . Seismic plus LOCA loads on FEA. CPB-DSI
- . Core protection calculator. CPB-DSI
- . DNBR testing of revised FEA. CPB-DSI
- . Containment Pressure Boundary Fracture Toughness. MTEB-DE
- . Emergency planning. EPP0
- . Industrial security. NMSS
- . Review of CENPD-183. CPB-DSI
- . Review of Q-list. QAB-DE

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## SEQUOYAH 2

Docket No.:	50-328	NRC Estimate Construction	
Location:	Chattanooga, Tennessee	Completion:	6/81
Utility:	Tennessee Valley Authority	Application Estimate	
Vendor:	Westinghouse	Construction Completion:	4/81
Reactor Type:	PWR	SER Issued:	3/79
Containment Type:	Ice condenser	SSER Issued:	1-4 (2/80, 8/80, 9/80, 1/82)
		ASLB Decision:	N/A
Architect/Engineer:	TVA	OL Issuance Estimated:	4/81
MWe Rating:	1140 MWe		

### Overview

CP Issued: 5/70 CP Hearings: 4/70 to 4/70

Major Issues at CP Stage: N/A

FSAR Docketed: 3/77 Last Amendment Submitted: N/A

### Safety Review Status

- . Status of Q-1, Q-2: Complete
- . Number and basic subject of Outstanding Issues Non-TMI: 5 -
  - Barge Collision
  - ERCW Intake Settlement
  - Purge/Vent
  - Equipment Qualification
  - Fire Protection for ERCW
- . Number and basic subject of Outstanding Issues - TMI: 0737
- . Unique Design Features: Ice Condenser with Ignitor System
- . ACRS Meeting: N/A
- . Commission Briefing: 5/81E
- . Other Items: Hydrogen Control; Centralization of EOF for all TVA Plants
- . Emergency Planning: Complete

### Environmental Review Status

- . DES Date: 10/71
- . FES Date: 7/74
- . Class 9 Evaluation Required: Not required

Hearings: None Required

## SHOREHAM

Docket No.:	50-322	NRC Estimate Construction	
Location:	Brookhaven, New York (LI)	Completion:	9/82
Utility:	Long Island Lighting (LILCO)	Application Estimate	
Vendor:	General Electric	Construction Completion:	6/82
Reactor Type:	BWR 4/5	SER Issued:	3/81
Containment Type:	Mark II	SSER Issued:	7/81
		ASLR Decision:	7/82
Architect/Engineer:	Stone & Webster	OL Issuance Estimated:	10/82
MWe Rating:	820 (NET)		

### Overview

CP Issued: 4/73 CP Hearings: 5/70 to 1/73  
Major Issues at CP Stage: NEPA, ATWS  
OL FSAR Docketed: 1/76 Last Amendment Submitted: 12/80

### Safety Review Status

- . Status of Q-1, Q-2: Complete
- . Number and basic subject of Outstanding Issues Non-TMI: 66
- . Number and basic subject of Outstanding Issues - TMI: All NUREG-0737 - 63
- . Unique Design Features: Mark II Containment & Once-Through Cooling
- . ACRS Meeting: 5/81 E
- . Commission Briefing: 9/82 E
- . Emergency Planning: N/S

### Environmental Review Status

- . DES Date: 3/77
- . FES Date: 10/77
- . Class 9 Evaluation Required: Not required

### Hearings

- . Noticed: 3/76 Discovery Completed: 10/81 Expected Start: 1/82 Expected End: 5/82
- . Major Intervenors:

Suffolk County, N. Y.	<u>CONTENTIONS</u>
Shoreham Opponents Coalition (SOC)	79
North Shore Committee Against Thermal & Nuclear	14
Pollution Oil Heat Institute of Long Island	2

### Other Special Problems or Considerations

- . SOC request for hearing on Shoreham CP Extension
- . SOC 2.206 requesting suspension of Shoreham CP

## SOUTH TEXAS 1 AND 2

Docket No.:	50-498/499	NRC Estimate Construction	#1	9/83
Location:	Bay City, Texas	Completion:	#2	9/85
Utility:	Houston Lighting & Power Co.	Application Estimate	#1	9/83
Vendor:	Westinghouse (3 Co-App'l's)	Construction Completion:	#2	9/85
Reactor Type:	PWR	SER Issued:	11/82	E
Containment Type:	Post-tensioned concrete cylinder	SSER Issued:	2/83	E
Architect/Engineer:	Brown and Root	ASLB Decision:	7/83	E
MWe Rating:	3817 MWt, 1250 MWe	OL Issuance Estimated:	9/83	E

### Overview

CP Issued: 12/75 CP Hearings: 8/75  
Major Issues at CP Stage: N/A  
OL FSAR Docketed: 7/78 Last Amendment Submitted: #14 - 12/80

### Safety Review Status

- . Status of Q-1, Q-2: Q-1 Complete, Q-2 being developed on limited basis QA complete
- . Number and basic subject of Outstanding Issues Non-TMI: Not yet defined except QA (2 items)
- . Number and basic subject of Outstanding Issues - TMI: 0737
- . Unique Design Features: N/A
- . ACRS Meeting: 12/82 E
- . Commission Briefing: 8/83 E
- . Other Items: Expedited hearing on QA program and management character and qualification ordered by Commission, 9/80.
- . Emergency Planning:

### Environmental Review Status

- . DES Date: 3/82 E
- . FES Date: 9/82 E
- . Class 9 Evaluation Required: 2/82 E
- . Other Items: Branch input/ANL Input 1/82 E

### Hearings

- . Noticed: 8/78 Discovery Completed: N/S Expected Start: 5/81 Expected End: 5/83
- . Major Intervenors: Citizens Concerned About Nuclear Power, Citizens for Equitable Utilities
- . Major Contentions
  - . QA and Management Qualifications
  - . Inadequate water supply
  - . Emergency plans
  - . Overpressure on RPV
  - . Underdesign for wind loadings
  - . Radionuclide bioaccumulation & deposition



ST. LUCIE 2

Docket No.:	50-389	NRC Estimate Construction	
Location:	Hutchinson Island, FL	Completion:	12/83
Utility:	Florida Power & Light	Applicant Estimate	
Vendor:	Combustion Engineering	Construction Completion:	10/82
Reactor Type:	PWR	SER Issued:	2/83
Containment Type:	Large, Dry	SSER Issued:	5/83
Architect Engineer:	EBASCO	ASLB Decision:	10/83
MWe Rating:	842	OL Issuance Estimated:	12/83

Overview

CP Issued: CPPR-144: 5/2/77

Major Issues at CP Stage: ECCS

OL FSAR Docketed: 2/81      Last Amendment Submitted: N/A

Safety Review Status

- . Status of Q-1, Q-2: Review being initiated
- . Number and basic subject of Outstanding Issues Non-TMI: All areas under review
- . Number and basic subject of Outstanding Issues - TMI: NUREG-0737
- . ACRS Meeting: 4/83
- . Commission Briefing: 10/83 E
- . Other Items of Importance: Total loss of ac power is a design basis accident to be analyzed for this plant
- . Emergency Planning: Plan has to be submitted

Environmental Review Status

- . DES Date: 7/81
- . FES Date: 12/81
- . Class 9 Evaluation Required: Yes

Hearings

- . Noticed: 2/81    Discovery Completed: N/A    Expected Start: N/A    Expected End: N/A
- . Major Intervenors: Unknown
- . Major Contentions: N/A

Other Special Problems or Considerations

- . Caseload Forecast Panel visit will be made to clarify date on core load.

2/26/81



## SUMMER

Docket No.:	50-395	NRC Estimate Construction	
Location:	Jenkinsville, South Carolina	Completion:	10/81
Utility:	South Carolina Electric &	Application Estimate	
Vendor:	Westinghouse Gas Co.	Construction Completion:	8/81
Reactor Type:	PWR	SER Issued:	2/81
Containment Type:	Large Dry	SSER Issued:	4/81
		ASLR Decision:	3/82
		OL Issuance Estimated:	6/82
Architect/Engineer:	Gilbert Associates		
MWe Rating:	900		

## Overview

CP Issued: 3/73 CP Hearings: 1/73 to 1/73  
Major Issued at CP Stage: Seismicity, ECCS, turbine missiles  
OL FSAR Docketed: 2/77 Last Amendment Submitted: 1/81

## Safety Review Status

- . Status of Q-1, Q-2: complete
- . Number and basic subject of Outstanding Issues Non-TMI: 11
- . Number and basic subject of Outstanding Issues - TMI: 0737
- . Unique Design Features: N/A
- . ACRS Meeting: 3/81 (Subcommittee 2/27,28)
- . Commission Briefing: 11/81
- . Other Items: Resolution of differing opinion on reservoir-induced seismicity
- . Emergency Planning: Exercise in late 5/81

## Environmental Review Status

- . DES Date: 6/79
- . FES Date: 3/81
- . Class 9 Evaluation Required: Yes

## Hearings

- . Noticed:4/77 Discovery Completed:Not scheduled Expected Start:7/81 Expected End: 8/81
- . Major Intervenors: Brett Bursey
- . Major Contentions:
  - . Seismicity
  - . Emergency Planning

## SUSQUEHANNA UNITS 1 AND 2

Docket No.:	50-387/388	NRC Estimate Construction	
Location:	Berwick, Pennsylvania	Completion:	3/82
Utility:	Pennsylvania Power & Light	Application Estimate	
Vendor:	General Electric	Construction Completion:	6/81
Reactor Type:	BWR 4	SER Issued:	Scheduled for 4/81
Containment Type:	Mark II	SSER Issued:	Scheduled for 6/81
		ASLB Decision:	8/82
		OL Issuance Estimated:	11/82
Architect/Engineer:	Bechtel		
MWe Rating:	1135 MWe		

### Overview

CP Issued: 11/73      CP Hearings: 2/73      to      8/73 (2 days)  
Major Issues at CP Stage: No major issues  
OL FSAR Docketed: 7/78

### Safety Review Status

- . Status of Q-1, Q-2: Q-2, 75 outstanding unanswered questions exist
- . Number and basic subject of Outstanding Issues Non-TMI: To be determined in 4/81
- . Number and basic subject of Outstanding Issues - TMI: To be determined in 4/81
- . Unique Design Features: Inerted containment
- . ACRS Meeting: 5/81 E
- . Commission Briefing: 10/82 E
- . Emergency Planning: FEMA drill planned for 10/81

### Environmental Review Status

- . DES Date: Issued 6/79
- . FES Date: To be issued 3/81
- . Class 9 Evaluation Required: Yes, to be issued in 2/81

### Hearings

- . Noticed: 8/78    Discovery Completed: Summer 81    Expected Start: 10/81    Expected End: 6/82
- . Major Intervenors: Marsh, Susquehanna Environmental Advocates, Citizens Against Nuclear Dangers, Environmental Coalition on Nuclear Power
- . Major Contentions: Evacuation, Need for Power

## WATERFORD

Docket No.:	50-382	NRC Estimate Construction	
Location:	Taft, Louisiana	Completion:	10/82
Utility:	Louisiana Power & Light	Application Estimate	
Vendor:	Combustion Engineering	Construction Completion:	10/82
Reactor Type:	PWR	SER Issued:	5/81
Containment Type:	Large, dry containment	SSER Issued:	7/81
		ASLR Decision:	10/82
Architect/Engineer:	EBASCO	OL Issuance Estimated:	1/83
MWe Rating:	1165		

### Overview

CP Issued: 11/74 CP Hearings: 2/74 to 2/74

Major Issues at CP Stage: U.H.S., seismic geology/floating plant

OL FSAR Docketed: 12/78 Last Amendment Submitted: #15 2/81, #16 due 3/81

### Safety Review Status

- . Status of Q-1, Q-2: Q-1's not received on I&C or SEB
- . Number and basic subject of Outstanding Issues Non-TMI: All areas under review
- . Number and basic subject of Outstanding Issues - TMI: 0737
- . Unique Design Features: JHS, control of water tables because it's "floating"
- . ACRS Meeting: 7/81 E
- . Commission Briefing: 3/83 E
- . Emergency Planning: Plan & Evacuation time estimates have been submitted. State & Local plans not yet approved by FEMA.

### Environmental Review Status

- . DES Date: 4/81
- . FES Date: 8/81
- . Class 9 Evaluation Required: 3/81 E
- . Other Items: DES will address Appendix I

### Hearings

- . Noticed: 1/79 Discovery Completed: 12/81 Expected Start: 3/82 Expected End: 1/83
- . Major Intervenors: Save Our Wetlands/Oystershell Environmental
- . Major Contentions: Louisiana Consumers Legal Alliance Safety
  - . Emergency Planning
  - . Synergistic effects of low level radiation and known carcinogens

## WATTS BAR

Docket No.: 50-390/391  
Location: Spring City, Tennessee  
Utility: Tennessee Valley Authority  
Vendor: Westinghouse  
Reactor Type: PWR  
Containment Type: Ice Condenser

Architect/Engineer: TVA  
MWe Rating: 1165

NRC Estimate Construction	#1	8/82
Completion:	#2	4/83
Application Estimate	#1	11/81
Construction Completion:	#2	4/83
SER Issued:		10/81
SSER Issued:		12/81
ASLR Decision:		N/A
OL Issuance Estimated:	#1	1/82
	#2	4/83

### Overview

CP Issued: 1/73 CP Hearings: 11/72 to 11/72

Major Issues at CP Stage: N/A

OL FSAR Docketed: 10/76 Last Amendment Submitted: 3/81

### Safety Review Status

- . Status of Q-1, Q-2: Q-2 responses completed when TMI occurred
- . Number and basic subject of Outstanding Issues Non-TMI: 102 Non-TMI Issues to be addressed 3/81
- . Number and basic subject of Outstanding Issues - TMI: All TMI Issues to be addressed 3/81 (to meet NUREG-0737)
- . Unique Design Features: Ice Condenser
- . ACRS Meeting: 11/81 E
- . Commission Briefing: 2/82
- . Other Items:
  - . Hydrogen Control
  - . Watts Bar is similar in design to Sequoyah Units 1 & 2 - should minimize staff review on non-site specific review areas
  - . Watts Bar proposed to develop a Waste Heat Utilitization Industrial Park
- . Emergency Planning: To be completed 12/81 - Similar to Sequoyah Plan - trying to build a centralized EOF

### Environmental Review Status

- . DES Date: 6/78
- . FES Date: 12/78
- . Class 9 Evaluation Required: Not required

Hearings: No hearings

FEB 4 1981

## WOLF CREEK

Docket No.:	50-482	NRC Estimate Construction Completion:	12/83
Location:	Burlington, Kansas	Application Estimate Construction Completion:	4/83
Utility:	Kansas Elec. & Gas Co.	SER Issued:	3/83
Vendor:	Westinghouse	SSER Issued:	5/83
Reactor Type:	PWR	ASLR Decision:	10/83
Containment Type:	Dry - Pre Stress Concrete	OL Issuance Estimated:	12/83
Architect/Engineer:	Bechtel		
MWe Rating:	1150		

### Overview

CP Issued: 5/17/77 CP Hearings: 1/26/76 to 6/25/76

Major Issues at CP Stage: Sizing of lake for one or two units

OL FSAR Docketed: 8/80 Last Amendment Submitted: None-Revision I to SNUPPS FSAR Submitted

### Safety Review Status

- . Status of Q-1, Q-2: Q-1, Estimated transmittal date to applicant - 6/15/81
- . Number of basic subject of Outstanding Issues Non-TMI: Not yet known
- . Number of basic subject of Outstanding Issues - TMI: 0737
- . Unique Design Features: None
- . ACRS Meeting: 4/83 E
- . Commission Briefing: 11/83 E
- . Other Items of Importance, Potential Problems: Not yet known
- . Emergency Planning:

### Environmental Review Status

- . DES Date: 7/82
- . FES Date: 12/82
- . Class 9 Evaluation Required: Yes
- . Other Items: N/A

### Hearings

- . Noticed: 12/18/80 Discovery Completed: No Expected Start: 7/83  
Expected End: 7/83
- . Major Intervenors: Not known as of now
- . Major Contentions: Not known as of now



## WNP-2

Docket No.:	50-397	NRC Estimate Construction	
Location:	Richland, Washington	Completion:	7/83
Utility:	Washington Pub. Pow. Su. Sys.	Application Estimate	
Vendor:	General Electric	Construction Completion:	7/82
Reactor Type:	BWR	SER Issued:	3/82
Containment Type:	Mark II/free standing steel shell	SSER Issued:	6/82
Architect/Engineer:	Burns & Roe	ASLR Decision:	N/A
MWe Rating:	1100	OL Issuance Estimated:	7/82

### Overview

CP Issued: CPPR-93 3/19/73 CP Hearings: 1/26/73 (one day)  
Major Issues at CP Stage: Potential faulting close to site  
OL FSAR Docketed: 6/78 Last Amendment Submitted: No. 12 12/17/80

### Safety Review Status

- . Status of Q-1, Q-2: Q-1's completed
- . Number and basic subject of Outstanding Issues Non-TMI: unknown
- . Number and basic subject of Outstanding Issues - TMI: NUREG-0737
- . Unique Design Features: free standing steel containment and GE cross-quencher
- . ACRS Meeting: 4/82 E
- . Commission Briefing: 6/82 E
- . Other Items of Importance, Potential Problems: Recent developments in geology & seismology may cause a revision in the design basis seismic event
- . Emergency Planning:

### Environmental Review Status

- . DES Date: 7/81
- . FES Date: 12/81
- . Class 9 Evaluation Required: yes

### Hearings

- . Noticed: 7/78 Discovery Completed: N/A Expected Start: N/A Expected End: N/A
- . Major Intervenors: N/A
- . Major Contentions: N/A
- . Other Items: Petitioners denied status of Intervenors based on extreme distance (180 miles) from site

### Other Special Problems or Considerations

- . Project slipping schedule steadily due to strikes, low worker productivity and Stop Work actions by Region V; significant failures in the QA/QC system; Caseload Forecast Panel visit will be made since slippage is greater than six months; apparent weaknesses in utility management

FEB 25 1981



## ZIMMER

Docket No.: 50-358  
Location: Moscow, Ohio  
Utility: Zimmer  
Vendor: General Electric  
Reactor Type: BWR/5  
Containment Type: Mark II  
  
Architect/Engineer: Sargent & Lundy  
MWe Rating: 2436 MWt/839 MWe (Gross)  
797 MWe (Net)

NRC Estimate Construction  
Completion: 4/82  
Application Estimate  
Construction Completion: 11/81  
SER Issued: 1/79  
SSER Issued: 5/81  
ASLR Decision: N/A  
OL Issuance Estimated: 7/82

### Overview

CP Issued: 10/72 CP Hearings: 5/72 to 9/72

Major Issues at CP Stage: N/A

OL FSAR Docketed: 9/75 Last Amendment Submitted: No. 112, 12/80

### Safety Review Status

- . Status of Q-1, Q-2: Complete
- . Number and basic subject of Outstanding Issues Non-TMI: 58, SRP Requirements
- . Number and basic subject of Outstanding Issues - TMI: 0737
- . Unique Design Features: N/A
- . ACRS Meeting: 3/79
- . Commission Briefing: Not scheduled
- . Other Items of Importance, Potential Problems: N/A
- . Emergency Planning: Exercise in late 81

### Environmental Review Status

- . DES Date: 8/76
- . FES Date: 6/77
- . Class 9 Evaluation Required: No
- . Other Items: Environmental Tech. Specs.; Flood Plain; EIA for CP Ext.

### Hearings

- . Noticed: 9/75 Discovery Completed: Open Expected Restart: 10/81 Expected End:
- . Major Intervenors: City Cincinnati, State of Kentucky, Faulkhauser, MVPP, City of Mentor, ZAC, ZACK
- . Major Contentions:
  - . Financial
  - . Emergency Preparedness
  - . Staffing

FEB 26 1981

MANUFACTURING LICENSE

AND

CONSTRUCTION PERMIT

PLANTS

PENDING CP

ALLENS CREEK

Docket No.:	50-466	Hearings:	Environ. Resumed 1/12/81
Location:	Houston, Texas		Safety (Non-TMI) 7/81
Utility:	Houston Lighting & Pwr. Co.	SER Issued:	11/74
Vendor:	General Electric	SSER Issued:	7/81
Reactor Type:	BWR/6	ACRS:	8/81
Containment Type:	Mark III	SSER:	9/81
Architect/Engineer:	ESASCO		
MWe Rating:	1150		

A second supplement to the Allens Creek FES regarding the issues of alternative sites and transportation of the reactor vessel to the site was issued in December 1980. A hearing on environmental issues resumed on January 12, 1981. Testimony on selected non-TMI safety issues is to be prepared by May 31, 1981 and it is anticipated that the safety hearings on these matters will resume in early July 1981.

PENDING CP

BLACK FOX

Docket No.:	STN 50-556/557	NRC Estimate Construction	
Location:	Inola, Oklahoma	Completion:	
Utility:	Public Service Co. of Okla.	Application Estimate	
Vendor:	General Electric	Construction Completion:	
Reactor Type:	BWR	SER Issued:	6/77
Containment Type:	Mark III Pressure Suppression	SSER Issued:	9/78
		ASLB Decision:	2/79
Architect/Engineer:	Black & Veatch	CP Issuance Estimated:	?
MWe Rating:	1150		

Overview

CP Issued: N/A CP Hearings: 8/77 to ?

Major Issues at CP Stage: Seismicity, containment loads

Safety Review Status

- . Status of Q-1, Q-2: Complete
- . Number and basic subject of Outstanding Issues - TMI: NUREG-0718
- . Unique Design Features: Mark III pressure suppression containment
- . ACRS Meeting: 7/77
- . Commission Briefing: ?

Environmental Review Status

- . DES Date: 7/76
- . FES Date: 2/77

Hearings

- . Noticed: N/A Discovery: N/A Expected Start: 8/77 Expected End: N/A
- . Major Intervenors: Case
- . Major Contentions
  - . Containment loads

PEBBLE SPRINGS

PENDING CP

Docket No.: 50-414, 415  
Location: Arlington, Oregon  
Utility: Portland General Electric  
Vendor: Babcock & Wilcox  
Reactor Type: PWR  
Containment Type: Large, Dry

Architect/Engineer: Bechtel  
MWe Rating: 1260

NRC Estimate Construction  
Completion:  
Application Estimate  
Construction Completion:  
SER Issued:  
SSER Issued:  
ASLR Decision:  
OL Issuance Estimated:

Overview

Major Issues at CP Stage: Volcanic Ash, seismicity

OL PSAR Docketed: 10/74

Safety Review Status

- . Number and basic subject of Outstanding Issues Non-TMI: 2, unresolved safety issues, cold shutdown using safety-grade systems.
- . Unique Design Features: designed for 8 1/2" volcanic ash.
- . Other Items: Referendum passed 11/80 which prohibits construction or operation of nuclear plants until a high-level waste repository is licensed by appropriate federal government agency.

Environmental Review Status

- . DES Date: 1/75
- . FES Date: 4/75, FES Supplement issued 4/80
- . Class 9 Evaluation Required: No
- . Other Items: Environmental-site suitability issue to be closed out after Summer hearing, partial initial decision to be issued mid-April.

Hearings

- . Noticed:N/A Discovery Completed:No Expected Start:7/81 Expected End:7/81
- . Major Intervenors: Lloyd Marbet
- . Major Contentions
  - . Alternative sites

PENDING CP

PILGRIM UNIT 2

Docket No.:	50-471	NRC Estimate Construction:	
Location:	Plymouth, Mass.	Completion:	No estimate
Utility:	Boston Edison Co.	Applicant Estimate	
Vendor:	Combustion Engi	Construction Completion:	Depends on CP issue
Reactor Type:	PWR	SER Issued:	6/75
Containment Type:	Large Dry	SSER Issued:	1/79
Architect/Engineer:	Bechtel Corp.	ASLB Decision	PID - 2/3/81*
MWe Rating:	1150	OL Issuance Estimated:	No estimate

Overview

CP Issued: No CP to date      CP Hearings: 10/20/75      to      8/28/79

Major Issues at CP Stage: Need for power, health effects, soil stability, alternative sites

Safety Review Status

- . Number and basic subject of Outstanding Issues Non-TMI: None
- . Number and basic subject of Outstanding Issues - TMI: NUREG-0718 including emergency planning
  - Emergency Plan is under staff review estimated completion date for submittal to ASLB 5/31/81
  - SER (TMI issues) estimated for 6/81
- . Unique Design Features: Large dry containment
- . ACRS Meeting: 7/81 E
- . Commission Briefing: TBD based on completion of hearing

Environmental Review Status

- . DES Date: 6/74
- . FES Date: 9/74, Draft Supplement - 2/79, Final Supplement - 5/74
- . Class 9 Evaluation Required: Not at CP stage

Hearings (completed for non-TMI items)

- . Noticed: 1/14/74      Discovery Completed: (non-TMI) yes
- . Major Intervenors: Massachusetts Attorney Generals Office
- . Major Contentions: Emergency planning-only admitted contention related to TMI others may be admitted after TMI issues are resolved.

Other Special Problems or Considerations

Awaiting Guidance on NUREG-0718, cannot project a CP date until TMI issues have been resolved.

\*PID on non-TMI issues only; TMI-2 issues and emergency planning open.



SKAGIT

PENDING CP

Docket No.: 50-522/523  
Location: Hanford Reservation  
Utility: Puget Sound Power & Light  
Vendor: General Electric  
Reactor Type: BWR/6 GESSAR 251  
Containment Type: Mark III

Architect/Engineer: Bechtel  
MWe Rating: 3800 MWt/1335 MWe

NRC Estimate Construction  
Completion:  
Application Estimate  
Construction Completion:  
SER Issued: 9/77  
SSER Issued: 10/78  
ASLB Decision: None  
OL Issuance Estimated:

Safety Review Status

(in hold until new site is announced)

Environmental Review Status

(in hold until new site is announced)

Unique Design Features: None

ACRS Meeting: 11/77

Hearing: Cancelled - will reopen on new site.

PENDING CP

PERKINS 1, 2 & 3

Docket No.:	50-488/489/450	SER Issued:	3/77
Location:	Mocksville, N.C.	SSER Issued:	7/77
Utility:	Duke Power Company	ASLB Decision:	Initial Decision Deferred
Vendor:	Combustion Eng.		to take account of TMI
Reactor Type:	PWR		
Containment Type:	Dry		
Architect/Engineer:	Duke Power Company		
MWe Rating:	1280		

By letter of July 27, 1979, applicant confirmed that no final decision has been made on construction of Perkins

PENDING ML

FLOATING NUCLEAR PLANTS, 1-8

Docket No.:	STN 50-437	NRC Estimate Construction	
Location:	Jacksonville, FL	Completion:	N/A
Utility:	Offshore Power Systems	Application Estimate	
Vendor:	" " "	Construction Completion:	N/A
Reactor Type:	PWR	SER Issued:	9/30/75
Containment Type:	Ice Condenser	SSER Issued:	(TMI) 12/81
Architect/Engineer:	Offshore Power Systems	ASLB Decision:	
MWe Rating:	1150	ML Issuance Estimated:	

Overview

ML Issued: FY 81      ML Hearings: 03-28-76      to Present

Major Issues at ML Stage: Class 9 accident

ML PDR Docketed: 07/05/73      Last Amendment Submitted: No. 27 - 5/14/79

Safety Review Status

- . Status of Q-1, Q-2: N/A
- . Number and basic subject of Outstanding Issues Non-TMI: None
- . Number and basic subject of Outstanding Issues - TMI: See NUREG-0718
- . Unique Design Features: Floating nuclear power plant with core ladle design (Class 9)
- . ACRS Meeting: 3/7/80 (more recent)
- . Commission Briefing: N/A
- . Other Items of Importance, Potential Problems: TMI hydrogen control measures (containment design)

Environmental Review Status

- . DES Date: Part I-7/24/74; Part II-12/08/75
- . FES Date: Part I-10/06/75; Part II-09/03/76; Addendum 09/30/78
- . Class 9 Evaluation Required: completed (see SSER No. 3 and FES Part III)

Hearings

- . ASLB hearings started 3/28/76
- . Major Intervenors: initial intervenors have withdrawn due to cancellation of Atlantic Generating Station project (PSE&G, NJ); NRDC remains.
- . Major Contentions: Floating aspect and ice condenser design  
Programmatic environmental impact statement

STATUS AND PROJECTED TARGET SCHEDULES  
FOR PENDING CONSTRUCTION PERMIT APPLICATIONS

PLANT	FSAR Docketed	ER Docketed	SER	ACRS Mtg.	Latest non- TMI SSER	FES	Hearing non-TMI Start	Hearing non-TMI End	(4) TMI SER	ACRS TMI	TMI SSER
Allens Creek 1	12/73C	12/73C	11/74C	12/74C	03/79C	12/80C	01/81C	09/81	07/81	08/81	09/81
Black Fox 1 & 2	12/75C	12/75C	06/77C	06/77C	03/79C	02/77C	08/77C	02/79C	08/81	09/81	10/81
Pebble Springs 1 & 2	10/74C	08/74C	01/76C	02/76C	05/78C	04/75C	05/78C	(1)	09/81	10/81	11/81
Perkins 1-3	05/74C	06/74C	03/77C	04/77C	07/77C	10/75C	11/75C	02/79C	(2)	(2)	(2)
Pilgrim 2	12/73C	12/73C	06/75C	11/75C	01/79C	10/75C	10/75C	08/79C	06/81	07/81	08/81
Skagit 1 & 2	01/75C	09/74C	08/77C	11/77C	10/78C	06/75C	07/75C	(3)	(3)	(3)	(3)
FNP 1-8	07/73C	07/73C	08/75C	Series	02/80C	10/75C	06/76C	10/79C	10/81	11/81	12/81

- (1) Seismic issues delayed safety review. Alternative site review based on the Seabrook decision resulted in FES supplement on this matter. Hearings not concluded; in addition to TMI-2 issues, generic issues (ALAB-444), need-for-power, and alternative site matters are pending. Site Certification by State is not complete. The State had imposed a moratorium on further consideration of Pebble Springs through November 1980. Environmental review resumed with testimony anticipated to be filed in April 1981. TMI schedule predicated on applicant providing TMI PSAR in July 1981.
- (2) Motion was filed to reopen to consider TMI-2 issues. Applicant indicated in July 1979 that no final decision has been made by them on the construction of Units 1, 2 and 3.
- (3) As a result of field explorations conducted by USGS, the seismic design of the facility must be reexamined. Applicants indicated in September 1980 that proposed facility to be relocated to site on the Hanford reservation. Amended ER and PSAR will be filed in September 1981.
- (4) Schedules shown are based on preliminary estimates of where PSAR amendments will be filed.