Docket No.: 50-443

APPLICANT: Public Service Company of New Hampshire

FACILITY: Seabrook Station, Unit 1

SUBJECT: MEETING SUMMARY

On November 16-17, 1982 NRC staff representatives visited the Seabrook facility to obtain information and make observations that will provide the staff with a basis for making a judgement of the reasonableness of the applicant's projected fuel load date when it becomes available. A copy of the meeting notice, a related letter to the applicant and an attendance roster are enclosed (Enclosures 1, 2 and 3 respectively).

The meeting proceeded according to the agenda with the exception of item 6 in the enclosure to the meeting notice. This item addresses the applicant's schedules for project completion, but the information was not made available because it is presently under review by the applicant. To support the discussions on the first day, the applicant provided a handout containing information related to the agenda items (Enclosure 4).

The discussions of project status and the plant tour were each completed within one day and the visit was over with the end of the tour. The staff did not have any preliminary conclusions to discuss with the applicant. There was no need to make use of the contingency time provided for in the initial schedule (e.g., November 18, 1982).

L. L. Wheeler, Project Manager Licensing Branch No. 3 Division of Licensing

Enclosures: As stated

cc: See next page

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DATE &	12/15/82	1 <b>4</b> 1/82				 
DATE						

"William C. Tallman Chairman and Chief Executive Officer Public Service Company of New Hampshire Fost Office Box 330 Hanchester, New Hampshire 03105

cc: Thomas Dignan, Esq.
John A. Ritscher, Esq.
Robes and Gray
225 Franklin Street
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Edward J. McDermott, Esq. Sanders and McDermott 408 Lafayette Road Hampton, New Hampshire 03842

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Ms. Beverly A. Hollingworth 7 A Street Hampton Beach, New Hampshire 03842

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Assistant Attorney General
Office of Attorney General
208 State House Annex
Concord, New Hampshire 03301

Resident Inspector Seabrook Muclear Power Station c/o US Nuclear Regulatory Commission Post Office Box 700 Seabrook, New Hampshire 03874

Mr. John DeVincentis, Project Manager Yankee Atomic Electric Company 1671 Worcester Road Framingham, Massachusetts 01701

Mr. A. M. Ebner, Project Manager United Engineers & Constructors 30 South 17th Street Post Office Box 8223 Philadelphia, Pennsylvania 19101

Mr. Philip Ahrens, Esq. Assistant Attorney General State House, Station #6 Augusta, Main 04333

Mr. Stephen D. Floyd Public Service Company of New Hampshire Post Office Box 330 Manchester, New Hampshire 03105

Seacoast Anti-Pollution League "s. Jane Doughty 5 Market Street Portsmouth, New Hampshire 03801

### ATTENDANCE ROSTER

### NRC

L. Wheeler W. H. Lovelace

R. Gramm

### Yankee Atomic Electric Company

John DeVincentis H. T. Tracy, Jr. James Mayer Stephen Page Gregory A. Kann

### United Engineers & Constructors

A. M. Ebner

### Public Service of New Hampshire

Paul Bohan John Herrin John P. Cady, Jr. Bruce Beckley Tammy Gilbert Ron Sliver

#### UE&C

Drew O'Keefe J. J. Parisano G. Aggarwal

### SAPL

Geoffrey A. Brown Michael Daigneault Jane Doughty

### Harmon & Weiss

Joseph Egan

### State of New Hampshire

Dana Bisbee

### Costal Chamber of Commerce

Beverly Hollingworth

SEABROOK STATION
UNIT 1 AND COMMON FACILITIES

NUCLEAR REGULATORY COMMISSION

CASELOAD FORECAST PANEL

## SEABROOK STATION UNIT 1 AND COMMON FACILITIES

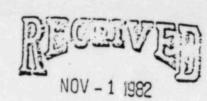
### AGENDA

I	INTRODUCTION
II	OVERVIEW OF PROJECT
III	DESIGN AND ENGINEERING STATUS
IV	PROCUREMENT STATUS
٧	CRAFT LABOR
VI	STATUS OF PIPE HANGERS, RESTRAINTS AND SNUBBERS
VII	STATUS OF MATERIAL QUANTITIES
VIII	STARTUP
IX	LICENSING
Χ	10CFR50.55(E) DEFICIENCIES
XT	SITE TOUR



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

OCT 2 9 1982



50-443 and 50-444

SEABROOK PROJECT

MEMORANDUM FOR: George W. Knighton, Chief, Licensing Branch No. 3, DL

FROM:

Docket Nos.:

L. L. Wheeler, Project Manager, Licensing Branch No. 3, DL

SUBJECT:

CASELOAD FORECAST PANEL MEETING AND TOUR OF SEABROOK

STATION

DATE & TIME:

November 16-17, 1982: 9:00 AM - 4:00 PM

November 18, 1982: 9:00 AM - 10:00 AM (if required)

LOCATION:

Seabrook Station

Seabrook, New Hampshire

PURPOSE:

Review construction progress to obtain information for

use as input to the OL review scheduling process.

AGENDA:

See enclosed Meeting Agenda for details:

November 16: Discuss recent construction progress and .

present status of the project.

November 17:

Tour the project and observe construction

activities.

November 18:

Meeting (if required) to discuss any

questions that are developed during the

past two days.

PARTICIPANTS:

Public Service Company of New Hampshire

J. Devincentis et. al.

NRC Staff

R. Gramm, W. Lovelace, L. Wheeler

Louis L. Wheeler, Project Manager Licensing Branch No. 3

Division of Licensing

Enclosure: As stated

cc: See next page

NOTE: NRC meetings are open to interested members of the public to attend as observers. Members of the public who wish to attend this meeting must contact L. Wheeler (301/492-7792) no later than 3:45 PM November 12, 1982. (The proper safeguarding of security and proprietary information requires the station tour portion of the meeting to be closed to the public). William C. Tallman
Chairman and Chief Executive Officer
Public Service Company of New Hampshire
P. O. Box 330
Manchester, New Hampshire 03105

cc: John A. Ritscher, Esq.
Ropes and Gray
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Boston, Massachusetts 02110

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Regional Adminstrator - Region I U. S. Nuclear Regulatory Commission 631 Park Avenue King of Prussia, Pennsylvania 19406 E. Tupper Kinder, Esq. Assistant Attorney General Office of Attorney General 208 State House Annex Concord, New Hampshire 03301

Resident Inspector
Seabrook Nuclear Power Station
c/o US Nuclear Regulatory Commission
P. O. Box 700
Seabrook, New Hampshire 03874

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Mr. Philip Ahrens, Esq. Assistant Attorney General State House, Station #6 Agusta, Maine 04330

Ropes and Gray
225 Franklin Street
Boston, Massachusetts 02110

Mr. Stephen D. Floyd
Public Service Company of New
Hampshire
P. O. Box 330
Manchester, New Hampshire 03105

- 1. Overview of project construction schedule including progress and major milestones completed, current problems and any anticipated problem areas that may impact the current projected fuel load date.
- Detailed review and current status of design and engineering effort (by major discipline) including any potential problems that may arise from necessary rework.
- Detailed review and current status of procurement activities including valves, pipe, instruments, cable, major components, etc.
- 4. Actual and proposed craft work force (by major craft), craft availability, productivity, potential labor negotiations and problems.
- 5. Detailed review and current status of all large and small bore pipe hangers, restraints, snubbers, etc., including design, rework, procurement, fabrication, delivery and installation.
- 6. Detailed review of project schedule identifying critical path items, near critical items, amount of float for various activities, the current critical path to fuel loading.

  imethods of implementation of corrective action for any activities with negative float, and provisions for contingencies. The estimated project percent complete as of October 29, 1982.
- 7. Detailed review and current status of bulk quantities including current estimated quantities, quantities installed to date, quantities scheduled to date, current percent complete for each, actual versus forecast installation rates, in cubic yards/mo., linear feet/mo., or number/mo., and basis for figures.
  - (a) Concrete (CY)
  - (b) Process Pipe (LF)
    - Large Bore Pipe (2 1/2" and larger)
       Small Bore Pipe (2" and smaller)
  - (c) Yard Pipe (LF)
  - (d) Large Bore Pipe Hangers, Restraints, Snubbers (ea)

(e) Small Bore Pipe Hangers. Restraints (ea) (f) Cable Tray (LF) . . (g) Total Conduit (LF) (h) Total Exposed Metal Conduit (LF) (i) Cable (LF) Power Control - Security - Instrumentation Plant Lighting (j.) .Terminations -(ea) - Power . - Control - Security - Instrumentation - Plant Lighting (k) Flectrical Circuits (ea) A 18-11 ( ... - Power -- Control - Security (1) Instrumentation (ea) 3. Detailed review and current status of preparation of preop and acceptance test procedures, integration of preop and acceptance test activities with construction schedule, system turnover schedule, preop and acceptance tests schedule, current and proposed preop and acceptance tests program manpower. (a) Total number of procedures required for fuel load. (b) Number of draft procedures not started. (c) Number of draft procedures being written. (d) Number of procedures approved. . (e) Number of procedures in review. (f) Total number of preop and acceptance tests required for fuel load. Number of preop and acceptance tests completed. Number of preop and acceptance tests currently

Number of systems turned over to start-up.

(h)

in progress.

- Detailed discussion of potential schedular influence due to changes attributed to NUREG-0737 and other recent licensing requirements.
- 10. Discussion of schedular impact, if any, regarding potential deficiencies reported in accordance with 10 CFR 50.55(e).
- 11. Overview of current construction and startup management organization showing interfaces between the two.
- 12. Site tour and observation of construction activities.

### SEABROOK STATION UNIT 1 AND COMMON FACILITIES

STRUCTURE	PERCENT COMPLETE*
UNIT 1 AND COMMON	78%
CONTAINMENT BUILDING	75%
TURBINE BUILDING	85%
CONTROL BUILDING	93%
DIESEL GENERATOR BUILDING	79%
PRIMARY AUXILIARY BUILDING	63%
FUEL STORAGE BUILDING	67%
WASTE PROCESS/TANK FARM	65%
CIRCULATING WATER PUMP HOUSE	75%
TUNNELS	92%
COOLING TOWER	91%
SWITCH YARD	98%
ADMINISTRATION BUILDING	99%
ENCLOSURE MS/FW	69%

<sup>\*</sup>PERCENT COMPLETE BASED UPON 1981 ESTIMATE AS OF 10/25/82.

OWNER
PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
AND OTHER JOINT OWNERS

ENGINEERING/CONSTRUCTION SUPERVISOR YANKEE ATOMIC ELECTRIC COMPANY

ENGINEER/CONSTRUCTION MANAGER
UNITED ENGINEERS AND CONSTRUCTORS

CIVIL CONTRACTS

SITE PREPARATION TUNNEL GENERAL CONCRETE LINER STRUCTURAL STEEL MECHANICAL CONTRACTS

YARD PIPING PIPING TURBINE GENERATOR CONDENSERS HVAC ELECTRICAL CONTRACTS

TEMPORARY ELECTRICAL ELECTRICAL SUBSTATION OTHER CONTRACTS

INSTRUMENTATION
INSULATION
SECURITY BUILDING
RV INSULATION
PAINTING

### UNIT 1 AND COMMON FACILITIES

### MAJOR CONTRACTORS CURRENTLY WORKING

CONTRACT	PACKAGE
----------	---------

GENERAL CONCRETE AND CIVIL WORK

PIPING AND MECHANICAL WORK

ELECTRICAL WORK

INSTRUMENTATION

PAINTING

CIRCULATING WATER TUNNELS

TURBINE GENERATOR ERECTION

CONTAINMENT LINER AND FIELD

ERECTED TANKS

STRUCTURAL STEEL

CONDENSER

SUBSTATION

STANDARD INSULATION

ELEVATORS

STAINLESS POOL LINERS

HEATING AND VENTILATING

FIRE PROTECTION

FIELD TESTING

SERVICE WATER COOLING TOWER

INTERNALS INSTALLATION AND
REACTOR COOLANT PUMP ASSEMBLY

GUARDHOUSE INSTALLATION

CONTRACTOR

PERINI CORPORATION

PULLMAN-HIGGINS

FISCHBACH-BOULOS-MANZI

JOHNSON CONTROLS INCORPORATED

NORTHEAST SURFCO-LEONARD

MORRISON-KNUDSEN COMPANY.

INC.

GENERAL ELECTRIC COMPANY

PITTSBURGH-DES MOINES

CORPORATION

DANIEL MARR COMPANY

UNION BOILER ~

MASSACHUSETTS ELECTRIC

COMPANY

TO BE ANNOUNCED

ÛTIS ELEVATOR CO.

NOOTER CORPORATION

HIRSCH ARKIN HERSHMAN

GRINNELL FIRE PROTECTION

SYSTEM

PITTSBURGH TESTING

LABORATORY

CERAMIC COOLING TOWER

NISCO NUCLEAR INSTALLATION

SERVICES COMPANY

MAXAM

### UNIT 1 AND COMMON FACILITIES

### MILESTONES COMPLETED

STRUCTURE	COMPLETION DATE
CONTAINMENT	
MAIN STEAM PIPE WHIPS COMPLETED RC LOOP PIPING COMPLETED SS LINER PLATE, PIT AND CANAL INSTALLATION COMMENCED WIND GIRDERS REMOVED SET CONTAIMENT AIR COMPRESSORS	4/82 5/82 5/82 10/82 10/82
CONTAINMENT EXTERIOR	
COMPLETE PLACEMENT EXTERIOR DOME	10/82
EMERGENCY FEEDWATER PUMP HOUSE	
COMPLETED ROOF SLAB AT EL. 47.0 SET EMERGENCY FEEDWATER PUMPS AND LOADED IN MAIN STEAM AND FEEDWATER PIPE	10/82 10/82
TURBINE BUILDING	
CABLE TRAY INSTALLATION COMPLETED CONDENSER TUBES INSTALLED INSULATION INSTALLATION FOR GENERATOR STEEL	6/82 7/32 8/82
AND PIPING COMMENCED TURBINE ASSOCIATED LARGE BORE PIPING INSTALLATION	9/82
COMPLETED HVAC COMPLETED	10/82
PRIMARY AUXILIARY BUILDING	
SET STEAM GENERATOR BLOWDOWN TANKS AND HEAT EXCHANGERS	11/81
SET CHEMICAL VOLUME CONTROL TANK SET COMPONENT COOLING WATER HEAD TANKS AND HEAT EXCHANGERS	2/82 4/82
SET ALL MAJOR HVAC EQUIPMENT PLACED ALL ELEVATED AND ROOF SLABS	6/82 7/82

### UNIT 1 AND COMMON FACILITIES

### MILESTONES COMPLETED (CONTINUED)

STRUCTURE	COMPLETION DATE
FUEL STORAGE BUILDING	
SET ALL MAJOR HVAC EQUIPMENT SET SPENT FUEL POOL PUMPS AND SKIMMERS SET CASK HANDLING CRANE PLACED ALL ELEVATED AND ROOF SLABS	12/81 5/82 7/82 8/82
CONTROL BUILDING	
PLACED ROOF SLAB AT EL. 98 COMPLETED HVAC SYSTEM FOR COMPUTER ROOM INSTALLED COMPUTER	9/81 10/82 10/82
DIESEL ŒNERATOR BUILDING	
PLACED ROOF SLAB AT EL. 78'-6". ROUGH SET ALL MECHANICAL EQUIPMENT	9/81 10/82
WASTE PROCESSING BUILDING	
PLACED SLAB AT EL. 86	10/82
TANK FARM	
INSTALLED REACTOR MAKEUP WATER STORAGE TANK INSTALLED BORON RECOVERY TEST TANKS INSTALLED SERVICE WATER PIPING NORTH TANK FARM TO EL. 53	12/81 1/82 9/82
PLACED SLAB AT ELEVATION 86	10/82
CIRCULATING AND SERVICE WATER SYSTEM	
COMPLETED SLAB AND EQUIPMENT FOUNDATION EL. 21 SERVICE WATER AND CIRC. WATER PUMPHOUSE	9/82

### UNIT 1 AND COMMON FACILITIES

### MILESTONES COMPLETED (CONTINUED)

STRUCTURE	COMPLETION DATE
INTAKE/DISCHARGE/TUNNEL	
COMPLETE INTAKE AND DISCHARGE INVERT AND ARCH	8/82
CONCRETE OF INTAKE OCEAN SHAFT CONNECTIONS	8/82
COOLING TOWER	
COMPLETE ROOF SLAB INSTALLED DRIVE SYSTEM. GEAR BOXES AND FANS	1/82 10/82
GUARDHOUSE	
COMPLETE MAJOR STRUCTURAL WORK	10/82
ADMINISTRATIVE BUILDING	
OWNER OCCUPY ADMINISTRATION BUILDING	8/82
SWITCHYARD	
SET GENERATOR STEP-UP TRANSFORMERS ENERGIZED RESERVE AUXILIARY TRANSFORMERS SET UNIT AUXILIARY TRANSFORMERS COMPLETED ERECTION OF BUS SUPPORT STEEL	9/81 2/82 7/82 7/82

# SEABROOK STATION UNIT 1 AND COMMON FACILITIES AVERAGE CRAFT WORK FORCE

YEAR	AVERAGE* MANPOWER
1976	460
1977	620
1978	1,350
1979	2,250
1980	2,000
1981	2,250
1982	4,700
1983	4.000**
1984	

<sup>\*</sup>INCLUDES ALL CRAFTS.

<sup>\*\*</sup>UNDER EVALUATION.

### SEABROOOK PROJECT

### WORK FORCE

### UNIT 1 AND COMMON FACILITIES

10/82	PEAK 1983**
4.839	4.850
1.514	2,340
6,353	7.190
10/82	
4,610	
1.587	
156	
6,353	
	4.839 1.514 6.353 10/82 4.610 1.587 156

<sup>\*\*</sup>UNDER EVALUATION.

# SEABROOK STATION UNIT 1 AND COMMON FACILITIES STATUS OF PROBLEMS PRESENTED IN 1981

### PIPEFITTER AVAILABILITY

PIPEFITTER MANPOWER REQUIREMENTS

PRESENT LEVEL

FUTURE REQUIREMENTS

CORRECTIVE ACTIONS

OVERTIME WORK

WELDING SCHOOL

UA/NCA ASSISTANCE

### SEABROOK STATION UNIT 1 AND COMMON FACILITIES ENGINEERING AND DESIGN STATUS

### SPECIFICATIONS

DISCIPLINE	TOTAL REQUIRED	TOTAL ISSUED		PERCENT ISSUED
STRUCTURAL	86	83		97%
MECHANICAL	51	51		100%
ELECTRICAL	46	46		100%
ISC	80	78		98%
MECHANICAL SERVICES	40	39		98%
NUCLEAR	67	54		96%
SUBSTATION	12	12		100%
ARCHITECTURAL	39	39		100%
PIPING	29	29		100%
CONSTRUCTION	18	18	**	100%
PROJ. STANDARD DOCUMENTS	_31	31		100%
TOTAL	499	490		98%

### SEABROOK STATION UNIT 1 AND COMMON FACILITIES ENGINEERING AND DESIGN STATUS

### DRAWINGS

DISCIPLINE	TOTAL REQUIRED	TOTAL ISSUED	PERCENT ISSUED
STRUCTURAL	968	921	95%
SUPPORTS	56	50	89%
MECHANICAL	415	408	98%
SUPPORTS	121	117	97%
ELECTRICAL	742	716	96%
ISC	2.192	2.133	97%
MECHANICAL SERVICES	250	239	96%
SUPPORTS	47	44	94%
NUCLEAR	1,282	1.177	92%
SUPPORTS	759	652	86%
SUBSTATION	145	139	96%
ARCHITECTURAL	235	235	100%
TOTAL	7,212	6.831	95%

### UNIT 1 AND COMMON FACILITIES

### EQUIPMENT AND MATERIAL PROCUREMENT STATUS

DISCIPLINE	TOTAL PURCHASES PLANNED	OF	PURCHASE ORDERS PLACED		PURCHASE ORDERS CLOSED	
STRUCTURAL	47	43	(91%)	27	(57%)	
MECHANICAL	50	49	(98%)	48	(96%)	
ELECTRICAL	46	45	(97%)	34	(74%)	
SUBSTATION	15	15	(100%)	15	(100%)	
INSTRUMENTATION AND CONTROL	74	70	(94%)	52	(70%)	
MECHANICAL SERVICES	29	27	(93%)	23	(79%)	
NUCLEAR	59	52	(88%)	45	(75%)	
PIPING	36	32	(88%)	9	(25%)	
ARCHITECTURAL	9	_ 9	(100%)	_ 4	(44%)	
TOTAL	365	342	(93%)	257	(70%)	

# SEABROOK STATION UNIT 1 AND COMMON FACILITIES PIPE SPOOL PROCUREMENT STATUS

BUIL	DING	TOTAL QUANTITY REQUIRED	TOTAL QUANTITY RECEIVED	PERCENT RECEIVED
1.	TURBINE	3.039	2,969	98%
2.	PAB	1,233	1.216	97%
3.	RHR VAULT	258	251	97%
4.	WPB	1.291	1.264	98%
5.	PENET. AREA	230	222	97%
6.	FUEL STOR.	110	104	95%
7.	CONTAINMENT	1.205	1.177	98%
8.	HYDROGEN RECOMB.	24	22	92%
9.	DIESEL ŒN.	238	237	100%
10.	AUX. BOILER	135	134	99%
11.	ADM	40	40	100%
12.	COOLING TOWER	55	55	100%
13.	RCA WALKWAY	12	11	92%
14.	WATER TREAT.	67	. 67	100%
15.	MS & FW CHASE	554	490	88%
16.	TANK FARM	415	405	96%
17.	EMERG. FWPH	13	12	92%
18.	CW & SW PH	205	199	87%
19.	CONTROL	55	55	100%
20.	STM. GEN. BLWDN.	47	38	81%
21.	PIPE TUNNEL	60	60	100%
22.	FAN ENCLOSURE	51	48	84%
23.	YARD	920	915	99%
	TOTAL	10,257	9,991	97%

### UNIT 1 AND COMMON FACILITIES

### VALVE PROCUREMENT STATUS

	BUIL	DING	TOTAL QUANTITY REQUIRED	TOTAL QUANTITY RECEIVED	PERCENT RECEIVED
	1.	TURBINE	2,358	2,273	96%
	2.	PAB	1.279	1,266	99%
	3.	RHR VAULT	203	201	99%
	4.	WPB	1,525	1.446	95%
	5.	PENET. AREA	131	127	97%
	6.	FUEL STOR.	171	165	36%
	7.	CONTAINMENT	1.099	1.047	95%
	8.	HYDROGEN RECOMB.	31	30	97%
	9.	DIESEL ŒN.	206	192	93%
	10.	AUXILIARY BOILER	177	174	98%
	11.	ADMINISTRATION	30	27 **	90%
	12.	COOLING TOWER	23	23	100%
	13.	RCA WALKWAY	9	9	100%
	14.	WATER TREAT.	34	33	97%
	15.	MS & FW CHASE	268	242	90%
	16.	TANK FARM	372	370	99%
1	17.	EMERG. FWPH	97	78	80%
	18.	CW & SW PH	300	249	85%
	19.	CONTROL	83	82	99%
	20.	STM. GEN. BLWDN.	29	22	76%
	21.	AREAS NOT DESIGNATED	476	416	87%
		TOTAL	8,900	8,472	95%

IV-3

OCTOBER 25. 1982

### SEABROOK STATION UNIT 1 AND COMMON FACILITIES CABLE PROCUREMENT STATUS

POWER CABLE

100% RECEIVED

CONTROL CABLE

92% RECEIVED

INSTRUMENT CABLE 80% RECEIVED

SEABROOK STATION

### UNIT 1 AND COMMON FACILITIES

### MANPOLER REQUIREMENTS.

0	10/82	1	.982	19	983**	19	184••
CRAFT LABOR	LEVEL	AVERAGE	PEAK/CRAFT	AVERAGE	PEAK/CRAFT	AVERAGE	PEAK/CRAFT
BOILERMAKERS	39	102	139	50	100		
CARPENTERS	664	826	1.073	1100	550		
ELECTRICIANS	679	524	762	450	820		
IRONWORKERS (R)	108	144	202	95	180		
IRONWORKERS (S)	305	440	619	70	100		
LABORERS	885	911	1,118	500	550		
MILLRIGHTS	37	32	44	60	70		
PIPEFITTERS	1,274	1.120	1,407	1.760	2,000		
OPERATING ENGINEERS	270	320	44	170	240		
TEAMSTERS	84	88	, 115	50	50		
SHEETMETAL WORKERS	L 143	97	168	60	80		

<sup>\*</sup>MAJOR CRAFT ONLY.

<sup>\*\*</sup>UNDER EVALUATION.

SEABROOK STATION

# UNIT 1 AND COPPON FACILITIES

CRAFT LABOR AGREPTENTS EXPTRATION DATES		
CRAFT LABOR AGREEMENTS E	XP IRATION DATES	1983
CRAFT LABOR	AGREEMENTS E	
	CRAFT LABOR	

		-				13	60					
CRAFT	JAN	FEB	MAR	APR	MAY	Jun	Jul	Aug	SEP	ОСТ	Nov	DEC
ASBESTOS WORKER								×				
BOILERMAKERS									×			
CARPENTERS				×								
ELECTRICIANS					×							
IRONMORKERS						×						
LABORERS				×								
MILLWRIGHTS				×								
PIPEFITTERS					×							
OPERATING ENGINEERS				×								
TEAMSTERS				~								
SHEETMETAL WORKERS						×						
BRICK LAYERS & CEMENT MASONS				×								
PAINTERS				V.	×							
SPRINKLER FITTERS			×									

OCTOBER 25, 1982

### UNIT 1 AND COMMON FACILITIES

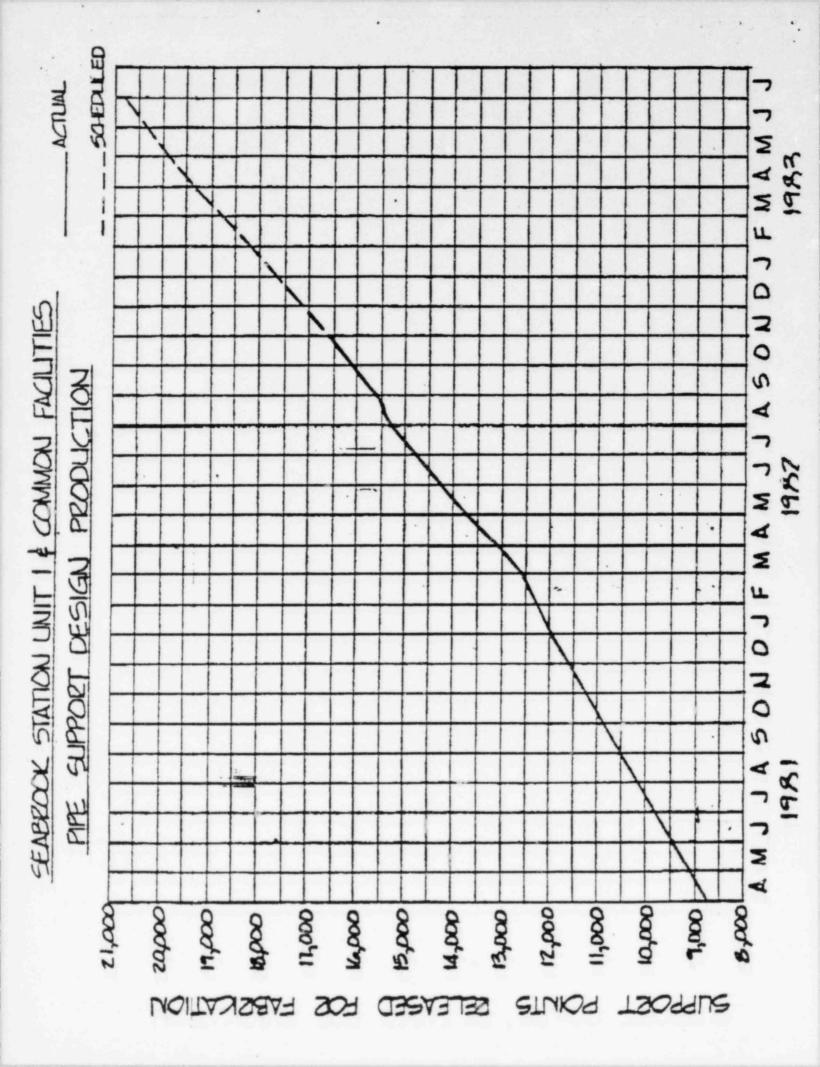
### STATUS OF PIPE HANGERS, RESTRAINTS, AND SNUBBERS

	QTY. REQ'D.	DESIGNED	ISSUED FOR FABRICATION	RECEIVED
LARGE BORE PIPE HANGERS	9,338	7.855 84%	7.800 84%	7,009 75%
SMALL BORE PIPE HANGERS1	7,164	5,215 (73%)	5,215 (73%)	5,097 71%
RESTRAINTS	125	121 (97%)	121 (97%)	121 (97%)
SNUBBERS	220	210 95%	210 95%	158 (72%)

<sup>1</sup>DOES NOT INCLUDE APPROXIMATELY 4,500 FIELD DESIGNED HANGERS OF WHICH APPROXIMATELY 2,000 HAVE BEEN DESIGNED TO DATE.

SEABROOK STATION UNIT 1 AND COMMON FACILITIES PIPE HANGER STATUS

BUIL	DING	TOTAL REQUIRED	TOTAL DESIGNED	TOTAL RECEIVED
1.	TURBINE	3.120	3.047	3.023
2.	PAB .	3,200	2.310	2,062
3.	RHR VAULT	450	337	387
4.	WPB	1,320	965	944
5.	PENET. AREA	365	292	284
6.	FUEL STORAGE	485	155	155
7.	CONTAINMENT	3,545	2.516	2,292
8.	HYDROGEN RECOMB.	80	67	67
9.	DIESEL GENERATOR	790	703	576
10.	AUXILIARY BOILER	138	138	138
11.	ADMINISTRATION	86	86	86
12.	COOLING TOWER	98	81	81
13.	WATER TREATMENT	95	95	95
14.	MS & FW CHASE	800	598	507
15.	TANK FARM	550	478	425
16.	EMERG. FEEDWATER PUMPHOUSE	180	113	101
17.	CW & SW PUMPHOUSE	370	316	267
18.	CONTROL BUILDING	330	312	255
19.	OTHER AREAS	500	411	361
	TOTAL	16,502	13,065	12,106



SEABROOK STATION
UNIT 1 AND COMMON FACILITIES

CONCRETE (CYS)

STRUCTURE	EST. QTY.	QUANTITY INSTALLED TO DATE	QUANTITY REMAINING	COMPLETE	ESTIMATED INSTALLATION RATE (MH/UNIT)	TO DATE INSTALLATION RATE (MH/UNIT)
CONTAINMENT BUILDING	33,932	33,932	0	100%	8.17	8.17
CONTAINMENT ENCLOSURE	10,180	7,082	3,098	70%	10.23**	10.63
TURBINE BUILDING	22,021	22,021	0	100%	4.34	4.34
PRIMARY AUXILIARY BLDG.	15,331	15,331	0	100%	8.59	8.59
FUEL STORAGE BUILDING	8,504	8,504	0	100%	5.60	5.60
ADMINISTRATION BUILDING	5,480	5,480	0	100%	6.55	6.55
CONTROL & DIESEL GENERATOR BUILDING	15,968	15,968	0	100%	5.66	5.66
WASTE PROCESS BUILDING	28,000	26,905	1,095	96%	6.75	5.65
CIRCULATING & SERVICE WATER PUMP HOUSE	26,355	24,642	1,713	94%	3.66	4.01
COOLING TOWER	14,716	14,716	0	100%	5.54	5.54
SWITCHYARD	4,327	4.170	157	96%	4.85	4.75
FILL CONCRETE	171,967	163,300	8,667	95%	1,38	1.40
TOTAL	356,821	342,051	14.730 .	96%	4.13	3.86
TUNNELS	147,141	134,126	13,015	91%	4.87	5.58
OTHERS	81,706	73,604	8,102	90%	4.10	3.40

<sup>\*\*</sup>UNDER EVALUATION.

### UNIT 1 AND COMMON FACILITIES

### **DILINO**

ITEM	EST. QTY.	QUANTITY INSTALLED TO DATE	QUANTITY REMAINING	COMPLETE	ESTIMATED** INSTALLATION RATE (MH/UNIT)	TO DATE INSTALLATION RATE (MH/UNIT)
(1) LARGE BORE PIPE (LF)	224,953	143,937	81,015	64%	6.50	3.80
LARGE BORE PIPE HANGERS (EA)	9,338	3,439	5,899	37%	115.00	101.03
(2) SMALL BORE PIPE (LF)	133,289	19,506	113,783	15%	8.96	7.32
CIRCULATING WATER PIPE (LF)	6,967	4,987	1,980	72%	18.33	20.13

<sup>\*\*</sup>UNDER EVALUATION.

<sup>(1)2-1/2&</sup>quot; AND OVER; INCLUDES YARD AND BUILDING PIPING.

<sup>(2)2&</sup>quot; AND UNDER: INCLUDES MANHOURS FOR: HANGERS. VALVES, WELDS, SPECIALTIES, ETC.

SEABROOK STATION

### UNIT 1 & COMMON FACILITIES

### ELECTRICAL

ITEM	EST. QTY.	QUANTITY INSTALLED TO DATE	QUANTITY REMAINING	COMPLETE	ESTIMATED** INSTALLATION RATE (MH/UNIT)	TO DATE INSTALLATION RATE (MH/UNIT)
CABLE TRAY (LF)	85,800	67,236	18,564	78	1.23	1.19
CONDUIT EMBEDDED & DUCT (LF)	224,250	122,080	102,170	54	.64	.54
CONDUIT RIGID (LF)	268,350	153,799	114,551	57	1.05	.97
CABLE (LF) POWER CONTROL SPECIALTY INSTRUMENTATION PLANT LIGHTING	719,500 2,214,200 150,000 1,370,000 449,565	426,534 1,050,294 4,292 476,887 281,437	292,966 1,163,906 145,708 893,113 168,128	59 47 3 35 63	.12 .07 .10 .09 .21	.09 .06 .06 .05 .19
TERMINATIONS (EA) POWER CONTROL SPECIALTY INSTRUMENTATION PLANT LIGHTING	23,410 79,062 4,500 75,400	10,506 27,470 8,822	12,904 51,592 4,500 66,578	45 35 12	1.93 .82 1.10 1.10	1.11 .87 .64
ELECTRICAL CIRCUITS (EA) POWER CONTROL SPECIALTY INSTRUMENTATION	3,000 9,600 6,600	1,364 3,954 2,115	1.636 5.646 4.485	45 41 32		

<sup>\*\*</sup>UNDER EVALUATION.

SEABROOK STATION
UNIT 1 & COMMON FACILITIES
INSTRUMENTATION

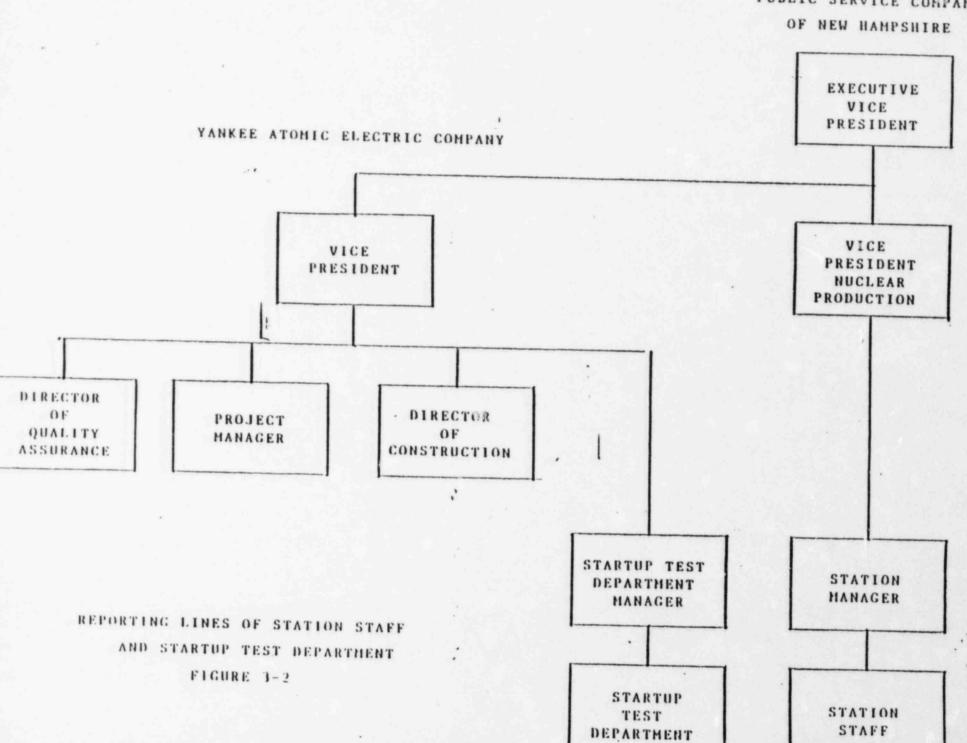
ITEM	EST.	QUANTITY INSTALLED TO DATE	QUANTITY REMAINING	COMPLETE	ESTIMATED** UNIT RATE (MH/UNIT)	TO DATE UNIT RATE (MH/UNIT)
LOCAL INSTRUMENTS & SUPPORTS (EA)	1,575	631	94	40.1	31.09	24.96
LEVEL COLUMNS (EA)	70	32	38	45.7	208.6	210.0
TUBING (LF)	200,000	48,998	151,002	24.5	1.000	0.539
TUBING TERMINATE (EA)	8,300	1,267	7,003	15.3	4.000	2.265
TRAY SUPPORTS (EA)	8,000	4,307	3,693	53.8	13.45	9.76
TRAY (LF)	45,520	18,499	27,021	40.6	1.672	0.912
RACKS (EA)	73	34	39	46.6	55.56	45.21
RACK DRAINS (EA)	60	24	36	40.0	30.00	3.167
INSTRUMENT AIR PIPE SMALL BORE (LF)	20,000	9,976	10,024	49.9	2.000	0.866
INSTRUMENT AIR PIPE HANGERS-SMALL BORE (EA)	2,496	1,659	837	66.5	15.89	9.961
INSTRUMENT AIR PIPE LARGE BORE (LF)	12,000	9,822	2,178	81.9	3.583	1.966
INSTRUMENT AIR PIPE HANGERS-LARGE BORE (EA)	825	491	334	59.5	27.33	30.15
INCORE TUBING	5,000	200	4,800	4.0	4.600	19.32

<sup>\*\*</sup>UNDER EVALUATION.

OCTOBER 25, 1982

### SEABROOK STATION. INITIAL TEST PROGRAM PHASES

PHASE 1	-	CONSTRUCTION VERIFICATION TESTS
PHASE 2		SYSTEM ACCEPTANCE/PREOPERATIONAL TESTS
PHASE 3	•	INTEGRATED SYSTEM PREOPERATIONAL TESTS
PHASE 4	-	INITIAL FUEL LOADING
PHASE 5		INITIAL CRITICALITY AND LOW POWER TESTS
PHASE 6	_	POWER ASCENSION



SEABROOK STATION BOUNDARY IDENTIFICATION PACKAGE STATUS

	No. of BIP's	PARTIAL TURNOVERS	COMPLETE TURNOVERS
MECHANICAL	259	6	30
ELECTRICAL	304	40	23
INSTRUMENT	243	12	<u>26</u>
TOTAL M.E.I	806	58	79
*TOTAL SYSTEM BIP'S	354		<u>21</u>

<sup>\*(1</sup> SYSTEM BIP = M BIP + E BIP + I BIP).

# SUMMARY OF MAJOR EVOLUTIONS SINCE SEPTEMBER 1981

RECEIVED FROM CONSTRUCTION AND PLACED IN SERVICE THE FOLLOWING	RECEIVED	FROM	CONSTRUCTION	AND	PLACED	IN	SERVICE	THE	FOLLOWING	:
--	----------	------	--------------	-----	--------	----	---------	-----	-----------	---

NECETAED FROM CONSTRUCTION AND PLACED IN SER	AICE THE POLLOWING:
WATER TREATMENT PLANT	JAN - MAR 1982
ADMINISTRATION BUILDING HVAC, CHILLED WATER, HOT WATER SYSTEM	FEB - MAY 1982
AUXILIARY BOILER, FUEL OIL, SAMPLE SYSTEM	FEB - MAR 1982
FIRED AUXILIARY BOILER	LATE FEB 1982
ENERGIZED RAT'S	MARCH 1982
ENERGIZED BUS 1 THROUGH 6	APR - MAY 1982
FILL DEMINERALIZED TANK. REACTOR MAKEUP WATER. TURBINE BUILDING HEADER	May 1982
CONTROL BUILDING HVAC	MAY - OCT 1982
START TESTING TURBINE BUILDING VENTILATION AND NON-ESSENTIAL SWITCHGEAR HVAC	May 1982
START FIRE PROTECTION - YARD AND TURBINE BUILDING	March 1982
START ENERGIZING SUBSTATIONS AND MCCS	MID-JUNE 1982
RUN-IN SERVICE AIR COMPRESSOR. TURBINE BUILDING AIR HEADER	LATER JULY 1982
START AUXILIARY STEAM, AUXILIARY BOILER ROOM AND TURBINE BUILDING	AUGUST 1982
INSTRUMENT AIR DRYER AND START TURBINE BUILDING HEADER	MID-AUGUST 1982
SET COMPUTER	LATE OCTOBER 1982

# CURRENT SYSTEM TESTING STATUS (PHASE 1)

SYSTEM	% OF SYSTEM TURNED OVER	% OF SYSTEM TESTING COMPLETED
ADMINISTRATION BUILDING HVAC	95 .	95
AUXILIARY BOILER	90	90
AUXILIARY STEAM	10	4
CONTROL BUILDING HVAC	35	10
ADMINISTRATION BUILDING CHILLED WATER	90	95
DRAINS	5	2
DEMINERALIZED WATER	5	5
ADMINISTRATION'S SERVICE BUILDING HOT WATER	15	25
INSTRUMENT AIR	20	10
SERVICE AIR	20	10
SECONDARY COMPONENT COOLING	5	1
WATER TREATMENT	90	75
ELECTRICAL DISTRIBUTION SYSTEM	,	
DC ELECTRICAL DISTRIBUTION	90	50
AC ELECTRICAL DISTRIBUTION	62.5	35
MCCs	55	25
15 KV	100	90 (10% IN SERVICE)
5 KV	100	90 (5% IN SERVICE)

## PREOPERATIONAL/STARTUP TEST PROCEDURE

## CLASSIFICATIONS

#### 1. ŒNERAL TESTS:

PHASE 1 CONSTRUCTION VERIFICATION TESTS VERIFY PROPER INSTALLATION OF EQUIPMENT AND SYSTEMS AND PLACE THE EQUIPMENT INTO NORMAL OPERATING SERVICE.

### 2. PREOPERATIONAL TESTS:

PHASE 2 TESTS PERFORMED TO VERIFY THE ABILITY OF SAFETY-RELATED PLANT SYSTEMS TO PERFORM THEIR FUNCTION PRIOR TO USE IN SUPPORT OF PHASE 3 TESTING OR INITIAL PLANT STARTUP. PHASE 3 TESTS PERFORMED PRIOR TO INITIAL FUEL LOADING WHICH INVOLVE THE INTEGRATED OPERATION OF A NUMBER OF PLANT SYSTEMS FOR THE PURPOSE OF TESTING CERTAIN PLANT FEATURES.

#### 3. ACCEPTANCE TESTS:

PHASE 2 TESTS PERFORMED TO VERIFY THE ABILITY OF NON-SAFETY-RELATED PLANT SYSTEMS TO PERFORM THEIR FUNCTION.

#### 4. STARTUP TESTS:

PHASE 4. 5 AND 6 TESTS PERFORMED TO VERIFY PROPER DESIGN AND INSTALLATION OF THE REACTOR CORE AND TO VERIFY PROPER OPERATION OF PLANT SYSTEMS DURING POWER ASCENSION.

SEABROOK STATION

PHASE 1 CONSTRUCTION VERIFICATION TEST STATUS

GENERAL TEST	TOTAL NO.	APPROVED	IN REVIEW	IN PREPARATION	
MECHANICAL	8	8	0	0	
ELECTRICAL	44	41	0	3	
INSTRUMENTATION					
GENERAL	45	45	0	0	
SPECIAL (RPS. ESF.	22	0	8	10	
TOTAL INST.	67	45	8	10	

# STATUS OF TEST PROCEDURE PREPARATION (Phases 2 through 6)

TEST TYPE	TOTAL NUMBER	APPROVED	DRAFT IN REVIEW	DRAFT IN PREPARATION	DRAFT (VOT STARTED
PREOPERATIONAL (PT)	78	2	37	8	31
ACCEPTANCE (AT)	75	3	44	12	16
STARTUP (ST)	50	0	13	3	34
TOTAL PT/AT	153	5	81	20	47
TOTAL TESTS	203	5	94	23	81

# SEABROOK STATION MANPOWER

		CURRENT LOADS	PROJECTED PEAKS
STARTUP EN	GINEERS	64	80
TECHNICIAN	S - ELECTRICAL	7	15
	- INSTRUMENT	28	40
CRAFTS	- ELECTRICIANS	11	40
	- MECHANICAL	8	85

# SEABROOK STATION UNIT 1 AND COMMON FACILITIES

# SCHEDULAR IMPACT OF TMI REQUIREMENTS (NUREG-0737) AND CURRENT LICENSING ISSUES

- I. CRITERIA FOR CONSIDERATION OF NUREG-0737 ITEM IN CFP
  - A. MAJOR CONSTRUCTION (DUE TO NATURE OF ITEM)
  - B. EQUIPMENT AVAILABILITY
- II. NUREG-0737 ITEMS CONSIDERED FOR CFP (SAME AS FOR 9/81 CFP)
  - A. TECHNICAL SUPPORT CENTER
  - B. EMERGENCY OPERATIONS FACILITY
  - C. SAFETY PARAMETER DISPLAY SYSTEM
  - D. POST-ACCIDENT SAMPLING SYSTEM
  - E. PLANT SHIELDING REVIEW
  - F. REACTOR VESSEL HEAD VENT
- III. SEABROOK ACTIVITY AND SCHEDULAR INFLUENCE OF NUREG-0737
  ITEMS CONSIDERED (CURRENT STATUS OF ITEMS CONSIDERED AT 9/81 CFP)
  - IV. OTHER LICENSING ACTIVITY CONSIDERED FOR CFP AND SEABROOK SCHEDULAR INFLUENCE (SAME AS FOR 9/81 CFP)
    - A. ENVIRONMENTAL QUALIFICATION OF SAFETY-RELATED ELECTRICAL EQUIPMENT
      - 1. NSSS
    - / 2. BOP
    - B. APPENDIX R (FIRE PROTECTION)
    - C. APPENDIX E (E-PLANNING)

# SEABROOK STATION UNIT 1 & COMMON FACILITIES

SCHEDULAR IMPACT OF 10 CRF 50.55 (E) DEFICIENCIES - NONE

### MEETING SUMMARY

Document Control (50-443)

DEC 1 6 7562

NRC PDR I. PDR NSIC TERA

LB#3 Reading
J. Lee
G. Knighton
Project Manager <u>LWheeler</u>
Attorney, OELD
E. L. Jordon
Regional Administrator, Region <u>I</u>
J. M. Taylor

# PARTICIPANTS (NRC):

LWheeler WHLovelace RGramm



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

50-443 Docket Nos.: and 50-444 OCT 2 9 1982

MEMORANDUM FOR: George W. Knighton, Chief, Licensing Branch No. 3, DL

FROM:

L. L. Wheeler, Project Manager, Licensing Branch No. 3, DL

SUBJECT:

CASELOAD FORECAST PANEL MEETING AND TOUR OF SEABROOK

STATION

DATE & TIME:

November 16-17, 1982: 9:00 AM - 4:00 PM

November 18, 1982: 9:00 AM - 10:00 AM (if required)

LOCATION:

Seabrook Station

Seabrook, New Hampshire

PURPOSE:

Review construction progress to obtain information for

use as input to the OL review scheduling process.

AGENDA:

See enclosed Meeting Agenda for details:

November 16: Discuss recent construction progress and

present status of the project.

November 17: Tour the project and observe construction

activities.

November 18: Meeting (if required) to discuss any

questions that are developed during the

past two days.

PARTICIPANTS:

Public Service Company of New Hampshire

J. Devincentis et. al.

NRC Staff

R. Gramm, W. Lovelace, L. Wheeler

Louis L. Wheeler, Project Manager

Licensing Branch No. 3 Division of Licensing

Enclosure: As stated

cc: See next page

NOTE: NRC meetings are open to interested members of the public to attend as observers. Members of the public who wish to attend this meeting must contact L. Wheeler (301/492-7792) no later than 3:45 PM November 12, 1982. (The proper safeguarding of security and proprietary information requires the station tour portion of the meeting to be closed to the public).

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ENGLUSURE

- Overview of project construction schedule including progress and major milestones completed, current problems and any anticipated problem areas that may impact the current projected fuel load date.
- Detailed review and current status of design and engineering effort (by major discipline) including any potential problems that may arise from necessary rework.
- Detailed review and current status of procurement activities including valves, pipe, instruments, cable, major components, etc.
- Actual and proposed craft work force (by major craft), craft availability, productivity, potential labor negotiations and problems.
- Detailed review and current status of all large and small bore pipe hangers, restraints, snubbers, etc., including design, rework, procurement, fabrication, delivery and installation.
- Detailed review of project schedule identifying critical path items, near critical items, amount of float for various activities, the current critical path to fuel loading, methods of implementation of corrective action for any activities with negative float, and provisions for contingencies. The estimated project percent complete as of October 29, 1982.
- 7. Detailed review and current status of bulk quantities including current estimated quantities, quantities installed to date, quantities scheduled to date, current percent complete for each, actual versus forecast installation rates, in cubic yards/mo., linear feet/mo., or number/mo., and basis for figures.
  - (a) Concrete (CY)
  - (b) Process Pipe (LF)
    - Large Bore Pipe (2 1/2" and larger)
    - Small Bore Pipe (2" and smaller)
  - (c) Yard Pipe (LF)
  - (d) Large Bore Pipe Hangers, Restraints, Snubbers (ea)

(e) Small Bore Pipe Hangers, Restraints (ea) (f) Cable Tray (LF) (g) Total Conduit (LF) (h) Total Exposed Metal Conduit (LF) (i) Cable (LF) - Power Control Security Instrumentation Plant Lighting (j) Terminations (ea) - · Power - Control . . Security - Instrumentation Plant Lighting (k) Flectrical Circuits (ea) Secretary & ... - Power - Control - Security (1) Instrumentation (ea) 8. Detailed review and current status of preparation of preop and acceptance test procedures, integration of preop and acceptance test activities with construction schedule, system turnover schedule, preop and acceptance tests schedule, current and proposed preop and acceptance tests program manpower. (a) Total number of procedures required for fuel load. (b) Number of draft procedures not started. (c) Number of draft procedures being written. (d) Number of procedures approved. (e) Number of procedures in review. Total number of preop and acceptance tests required for fuel load. Number of preop and acceptance tests completed. (g) Number of preop and acceptance tests currently (h) in progress. (i) Number of systems turned over to start-up.

- Detailed discussion of potential schedular influence due to changes attributed to NUREG-0737 and other recent licensing requirements.
- Discussion of schedular impact, if any, regarding potential deficiencies reported in accordance with 10 CFR 50.55(e).
- 11. Overview of current construction and startup management organization showing interfaces between the two.
- 12. Site tour and observation of construction activities.

#### COT 2 0 1002

Hr. William C. Tallman
Chairman and Chief Executive Officer
Public Service Company of New Hampshire
P. O. Dox 330
Manchester, New Hampshire 03105

hear Hr. Tallman:

Subject: MAC Caseload Forecast Panel Visit to Seabrook Station

On Movember 16-18, 1932, the MRC Caseload Forecast Panel (CFP) will visit Secureal Station to obtain information regarding the status of construction of Secureal, Unit 1 and facilities companies to both units. A list of information requested for this visit is enclosed.

The plan for the site visit provides for the first day being used for discussions of recent construction progress and the present status of the construction progress and the present status of the construction progress and the present status of the first to allow the staff to coserve construction activities. The third may is progressly unscheduled time to provide plexibility if the discussions and tear indicate that more time is required to pursue specific items of interest.

Inis is the second CFP visit to Seabrook Station (previous visit has September 15-17, 1901). The start has two consents on the provides visit for your consideration in preparation for this visit. First, the thereographs of the tour was very does and the start looks formed to a similar than on this visit. Second, since the last tour, the start has notified in more of GFP procedures to denote, a desertification of start estimates of the valid for once prior to the one of the visit. The start respects the cution of sharing any proliminary characteristics with your representations, but it is emphasized that this is so the described of the start and will depend on hearthcale that the regimed to metalog a start course once the discussions and tour have been completed.

Questions recording this visit should be directed to the NRC, Seubrook Project Manager, Mr. Louis L. Wneeler (301/492-7792).

Sincerely,

Pridical Signed By:

George W. Knighton, Chief Licensing Branch No. 3 Division of Licensing

co: See next page