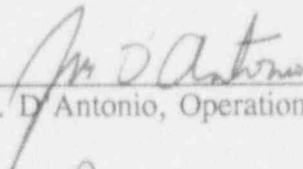


U. S. NUCLEAR REGULATORY COMMISSION REGION I
OPERATOR LICENSING EXAMINATION REPORT

EXAMINATION REPORT NO. 50-443/92-28(OL)
FACILITY DOCKET NO. 50-443
FACILITY LICENSE NO. NPF-67
LICENSEE: North Atlantic Energy Service Corporation
FACILITY: Seabrook Station Unit 1
EXAMINATION DATES: December 15, 1992
EXAMINERS: L. Briggs, Senior Operations Engineer

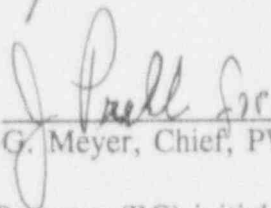
CHIEF EXAMINER:



J. D. Antonio, Operations Engineer

12-21-92
Date

APPROVED BY:



G. Meyer, Chief, PWR Section

12-21-92
Date

SUMMARY: Two Reactor Operator (RO) initial license retake examinations were administered. Both candidates passed their examinations and were issued licenses.

DETAILS

TYPE OF EXAMINATIONS: REPLACEMENT

1.0 EXAMINATION RESULTS

	SRO Pass/Fail	RO Pass/Fail	Total Pass/Fail
Written	N/A	Waived	Waived
Simulator	N/A	2/0	2/0
Walkthrough	N/A	Waived	Waived
Overall	N/A	2/0	2/0

2.0 GENERIC STRENGTHS

The candidates performed well. Recognition and diagnosis of malfunctions was in most instances extremely rapid. Actions required by procedures were carried out in a timely fashion. Mitigating actions not explicitly required by procedures in effect, but appropriate for the specific event, were also recommended to supervisory personnel. An example of this was a recommendation by the primary operator in the second scenario to dispatch an auxiliary operator to reset a tripped breaker for a PORV block valve, thus allowing the loss of inventory during a stuck PORV loss of coolant to be terminated. Coordination between the primary and secondary operators was effective.

3.0 WEAKNESSES OBSERVED

There were minor deficiencies in communications. In some instances, gestures and head nods were used to acknowledge orders instead of verbal repeatbacks. Verbal communications tended to be quiet and sometimes difficult to hear.

In the scenario involving the failed open PORV, the primary operator took 4 minutes to notice this failure. Although this is not an excessive amount of time, it is considered a weakness since safety injection had initiated on low pressurizer pressure, the candidate reported RCS pressure low, and the candidate had looked at that section of the control board several times before realizing the PORV was open.

4.0 PERSONS CONTACTED

North Atlantic Energy Service Corporation

- * R. Hanley Operations Training Manager
- * G. St. Pierre Assistant Operations Manager
- * D. Roy Sr. Simulator Instructor

enotes those present at the exit meeting on 12/15/92

5.0 EXIT MEETING

An exit meeting was conducted upon completion of the examinations on December 15, 1992. Facility personnel in attendance are noted in the previous paragraph. At this meeting, observations during the examination were discussed.

ATTACHMENT 1
SIMULATOR SCENARIO EVENTS

ES-301-3

SCENARIO EVENTS

Simulation Facility Seabrook

Scenario No. 1

Examiners: DANTON
BALUS

Candidates KINNEY - B2
WALSH - R2

Initial Conditions: APPROX 15% POWER ON STEAM DUMPS, JUST AFTER GENERATOR SYNC

Turnover: OS1000.02 IN PROGRESS, AT STEP 7.2.10, SYNCH AND RAISE POWER

EVENT NO.	MALF. NO.	TYPE*	DESCRIPTION
1	-	N/R	INCREASE POWER (CONTINUED)
2	138	I	LT-459 PZR LEVEL CH FAIL LOW
3	86	C	PCV-131 LETDOWN BACKPRESSURE CNTRL FAIL X
4	151	C	LOSS UPS 1B (A&D L S/G FAIL LOW)
5	GEN	MT	A FRV FAIL AS IS ABOUT 50% WHILE MANUALLY CLOSING
6	134	C	TURBINE FAIL TO AUTO TRIP ON HI L S/G
7	GEN	MT	A S/G SAFETY FAILS OPEN AFTER TURBINE TRIP

*Normal (N), Reactivity manipulation (R), Instrument malfunction (I), Component Malfunction (C), Major Transient (MT)

Review Complete: [Signature]
Chief Examiner

ES-301-3

SCENARIO EVENTS

Simulation Facility SEABROOK

Scenario No. 2

Examiners: DANNOVO
BAELLS

Candidates KENNEDY - RD
WALTER - BOP

Initial Conditions: 50%, MOL, B MFP AT IDLE

Turnover: PLACE 2ND MFP I/S, INCREASE POWER

<u>EVENT NO.</u>	<u>MALF. NO.</u>	<u>TYPE*</u>	<u>DESCRIPTION</u>
1	-	N/R	START B MFP, INCREASE POWER
2	137	I	LOOP A TCNR FAIL HI
3	140	I	PT505 TURB IMP PRESS FAIL LOW
4		C	DROPPED ROD
5	GEN	C	TURB GOV VALVE CLOSE
6	126	C	EHC PUMP TRIP
7	127	MT	2ND EHC PUMP TRIP, TURBINE TRIP
8		MT	ATWAS
9		MT	A PORV STICKS OPEN
10		C	A BLOCK VALVE TRIPS DURING CLOSURE ATTEMPT
11		I	SUBCOOLING MONITOR FAILS AS IS

*Normal (N), Reactivity manipulation (R), Instrument malfunction (I), Component Malfunction (C), Major Transient (MT)

Review Complete: [Signature]
Chief Examiner

ATTACHMENT 2 SIMULATION FACILITY REPORT

FACILITY LICENSEE: North Atlantic Energy Service Corporation

FACILITY DOCKET NO.: 50-443

Operating Tests administered on 12/15, 1992

This form is to be used only to report observations. These observations do not constitute audit or inspection findings and are not, without further verification and review, indicative of non-compliance with 10 CFR 55.45(b). These observations do not affect NRC certification or approval of the simulation facility other than to provide information which may be used in future evaluations. No licensee action is required in response to these observations.

The following simulator deficiency was observed:

The initial condition for one scenario started with the main generator ready for synchronization. During scenario validation, the facility staff was unable to close the generator output breaker. This required a modification of the scenario such that the starting point was just after generator synch. This affected the exam in that the examiners were unable to observe the candidate control SG levels manually in response to the initial load pickup following main generator synchronization.