Steps showing how Exam Team influence led to PORV and TE130 comment being on the White Board and deciding to grade noncontested

\*\*(PORV critical and TE-130 understanding – suggested by Region II Exam Team)

### From Exhibit CCS-039, page 3 STEP 1

Binder 11 created by exam team to give to the review panel ON FIRST MEETING, notice how PORV BEING CRITICAL added TO WHITE BOARD discussions based on this info presented to them

- -PI-456 failing high caused pressurizer PORV 456 to OPEN. As part of the scenario design, the PORV block valve, HV-8000B, automatic closure feature on low pressurizer pressure was disabled.
- -At time 08:18:17, Carla released the in-hold-out switch and informed of the pressurizer pressure malfunction.
- -As part of immediate operator actions, Carla verified the pressurizer spray valves were closed, and then mis-operated the pressurizer POR 456 handswitch by taking it to the OPEN position.
- -Carla then turned to look at without taking further actions.
- pointed at the PORV handswitch, and loudly stated: "Carla, shut
- -Carla then correctly closed the PORV using the handswitch on the control board.

During post-scenario follow-up questions, the examiner asked Carla "what were your immediate operator actions?" Carla correctly stated the immediate operator actions for a pressurizer channel failure. During her statement, Carla indicated that she had initially turned the PORV handswitch in the wrong direction.

#### B. EXAMINER EVALUATION AND COMMENTS

During the review of Carla Smith's 303 documentation following the assuance of the exam report, the exam team identified that this event had been mis-graded, because it was a failed critical task.

In accordance with NUREG 1021, Appendix D, D.1.a states that a critical task in a simulator scenario must have safety significance:

### From Exhibit NRC-038, page 1 STEP 2

Binder 13 created by exam team to give to the review panel ON FIRST MEETING, notice how (RF 1b) TE-130-understanding comment added TO WHITE BOARD discussions based on this info presented to them

During post-scenario follow-up questions, the examiner asked what procedure guidance was used to manually control TE-130? Carla looked through the LETDOWN HX OUTLET HI TEMP ARP. During this discussion, Carla stated that she had initially pressed the "up" button, and then subsequently pressed the "down" button. The examiner asked "walk nie through the diagnosis and the plant response?" Carla stated that demand goes down, causing flow through the heat exchanger to lower, it's a reverse-acting controller.

### From Exhibit NRC-038, page 2

#### B. EXAMINER EVALUATION AND COMMENTS

The examiner downgraded the applicant in rating factor 3.c, which is related to the ability to take manual control of automatic functions. This competency is different from manual rod control or POKV valve operation (other errors placed in different rating factors) in that a plant parameter is controlled in automatic under normal circumstances.

The examiner considered that there were elements of rating factor 1.b demonstrated during this event. Rating factor 1.b. relates to the applicant's "..actions demonstrate an UNDERSTANDING of how the PLANT, SYSTEMS, and COMPONENTS OPERATE AND INTERACT (including set points, interlocks, and automatic actions)?" More specifically, during this event, Carla specifically stated, "there is nothing else we can do but call C&T...," demonstrating a lack of understanding that the controller <u>could</u> be operated in a manual mode. Furthermore, the SRO was then required to instruct the applicant in the correct operation of the controller, which demonstrated that the applicant had a deficiency in understanding <u>how</u> the controller operated.

# **Quick Clarification**

### From Exhibit NRC-038, page 2

The examiner considered that there were elements of rating factor 1.b demonstrated during this event. Rating factor 1.b. relates to the applicant's "...actions demonstrate an UNDERSTANDING of how the PLANT, SYSTEMS, and COMPONENTS OPERATE AND INTERACT (including set points, interlocks, and automatic actions)?" More specifically, during this event, Carla specifically

EXAMINER MADE A TYPING ERROR HERE, he puts Rating Factor 1b when obviously meant 1c, below provides the description for 1c and it is the exact same description as the examiners notes from the

#### binder From Exhibit CCS-005A, page 153

	TTOTIL EXT		,03A, P	age 133				
1.	Interpret/Diagrose Events and Conditions Based on Alarms, Signals, and Readings							
	Rating Factors	Weighting F	RF Scores					
(a)	Did the applicant RECOGNIZE AND	N/O	= 0	3				
	ATTEND TO off-normal trends and status in order of their importance and severity?	Nominal	= 0.20	2				
		(b) N/O	= 0.25	1				
		(c) or (d) N/O	= 0.29					
(b)	Did the applicant ensure the collection of CORRECT, ACCURATE, and COMPLETE information and reference material on which to base diagnoses?	N/O	= 0	3				
		Nominal	= 0.20	2				
		(a) N/O	= 0.25	1				
		(c) or (d) N/O	= 0.28					
(c)	Did the applicant's directives and actions demonstrate an UNDERSTANDING of how the PLANT, SYSTEMS, and COMPONENTS OPERATE AND INTERACT (including set points, interlocks, and automatic actions)?	N/O	= 0	3				
		Nominal	= 0.30	2				
		(a) or (b) N/O	= 0.38	1				
		(d) N/O	= 0.43					
(d)	Did the applicant correctly INTERPRET/DIAGNOSE plant conditions based on control room indications?	N/O	= 0	3				
		Nominal	= 0.30	2				
		(a) or (b) N/O	= 0.37	14				
		(c) N/O	= 0.43					
-	Comply with and Has Breasdones and Bafer							

# **Quick Clarification**

### From Exhibit NRC-038, page 2

The examiner considered that there were elements of rating factor 1.b demonstrated during this event. Rating factor 1.b. relates to the applicant's "...actions demonstrate an UNDERSTANDING of how the PLANT, SYSTEMS, and COMPONENTS OPERATE AND INTERACT (including set points, interlocks, and automatic actions)?" More specifically, during this event, Carla specifically

# Here are the titles of the Rating Factors

From Exhibit CCS-005A, page 141

Applicant Docket Number: 55-					⊬age ot					
Senior Reactor Operator Simulator Operating Test Grading Details										
Competencies/	RF	RF	RF	Comp.	Comment					
Rating Factors (RFs)	Weights	Scores	Grades	Grades	Page No.					
Interpretation/Diagnosis     a. Recognize & Attend     b. Ensure Accuracy     c. Understanding     d. Diagnose										

### From Exhibit NRC-002, page 40 STEP 3

During the Interviews the Exam Team identifies to the Review Panel that the PORV should have been CRITICAL/

which resulted in the lowest possible score of "1" for that RF. During the initial grading, if the PORV error would have been correctly designated as a CT, the score for that RF would have remained a "1" because that is the lowest possible score. The Region II exam team discovered their grading error when preparing to be interviewed by the informal review panel, and provided documentation of the PORV CT to the informal review panel as part of the "Binder" document. 11 During those interviews, the Region II exam team admitted to the review panel that the PORV error should have been designated as a CT error. The Region II exam team informed the review panel that the error was required to be graded as a failed CT in accordance with NUREG-1021.

# WHITE BOARD DISCUSSIONS NEXT



### From Exhibit CCS-065, page 14 STEP 4

Look at: PORV and that it was pointed out as non contested – decision to include noncontested at bottom

PORVOPS, takes HIS wong direction (pot contested) #8 Letdown HX TE failure, Doesn't promptly take manual control + presses wrong button Make Sure to integrate with original E5-303 ie "non contested" errors must be shoulded!

7

From Exhibit CCS-065, page 14 STEP 5

Look at: C. Smith original test had 3c as an error for the TE 130

ADDED COMMENT for TE 130 1c –

Understanding

Doesn't look like theses items were determined independently

#7 PORVOPS, takes tils wong direction ( Not contested ) Letdown HX TE failure, Doesn't promptly take manual control + presses wrong button I.C Make svie to integrate with original E5-303 [ie "non contested" errors must be shoulded !]

14

### From Exhibit CCS-065, page 18 STEP 6

Look at: Says make sure closing PORV not CRITICAL-----D-2 says NO--

put as followup				
Ellor #7 as DATC		Estor Yor N?		
NOT CONTESTED BY APPLICANT	y	Dave	Y	
During Poer failure operators PORV in Wing	6	100	ń	
direction torrected by SRO (sits Operation				
Switch in wrong direction)				
Coll RF? (assigned 3a) 3a ( silect	D-2	says N	O BCA	
5 44 L. C. U.S. (1850)	But and st ortinal by	program	and Suidence	
Ellor #8 4 DATC	Don	FILOR	Chris	
1 stdam HX TE-0130 Failure	304	1 4	3- Y	
Auge NOT ID Manual Control aunitary	KY	167	1c4	
then hits wrong butter (was one was up arrow)		1		
- Leville		maybe	r	
Collect RF? (assigned 3c) Two hits?				
Fullow up? Where is TEC (TIC) iso to being alle to menter Se, Tan	Controller	4 /0	lation	
Cherk SRO/10 write-ups-				

NRC Staff presents that
Review team added those
two comments early on with
no input from the Exam
Team

Those items were discussed as a result of interaction with the Region II Exam Team PRIOR

This was not independent