

## 2017 Ginna Operating Test Changes Document

The following is a listing of the changes that were made to the 2017 Ginna Operating Test Exam Items based on the changes requested from those submitted at the 60-Day Submittal, following the review during the NRC Prep Week (February 21<sup>st</sup>-24<sup>th</sup>).

<u>Document</u>	<u>Page #</u>	<u>Change</u>
ES-201-2	1	Changed Rev date to 022717.
ES-301-3	1	Changed Rev date to 022717.
ES-301-4	1, 2	Changed Rev date to 022717.
ES-301-5	1-4	Changed Rev date to 022717. Changed order of Simulator Scenarios to be run: (1) Monday N17-1-5, (2) Tuesday N17-1-1, (3) Wednesday N17-1-3, and (4) Thursday N17-1-6. NOTE: N17-1-4 is the spare scenario.
ES-301-6	1, 2	Changed Rev date to 022717.
Scenario N17-1-1 ES-D-1	1	Changed Rev date to 022117.
Scenario N17-1-1 ES-D-2	1 1 19 43 46 47 55	Changed validation time to 105 Minutes. Changed Rev date to 022117. Corrected Typo on NOTE associated with Step 15 (The B CCW Pump has tripped). Changed examiner NOTE on Step 2 from "will NOT be met when the crew arrives at this step," to "may NOT be met when the crew arrives at this step." Added a NOTE to Major Bullet 3 of Step 19 to say that " <b>NOTE:</b> The C IAS Compressor is running." Added a NOTE to Major Bullet 2 of Step 21 to say that " <b>NOTE:</b> Adverse Containment may exist." Deleted an extra line between steps 26 RNO and Step 27.
Scenario N17-1-3 ES-D-1	1	Changed Rev date to 022217.
Scenario N17-1-3 ES-D-2	1 1 5 23 24 25	Changed validation time to 87 Minutes. Changed Rev date to 022217. Added the following statement to Column 3, Row 1 of the Simulator Operator Instructions: <b>Ensure P<sub>RCS</sub>-P<sub>S/G</sub> graphed during the scenario.</b> Corrected Typo on NOTE associated with Step 11 Bullet 1 ("Restoring") Added a NOTE to LCO 3.4.1 statement that states " <b>NOTE:</b> According to Section 2.10.1 of the COLR, the Przr Pressure shall be $\geq 2175$ psig." Added a NOTE to LCO 3.4.1 Condition A statement that states " <b>NOTE:</b> The US will identify that this TS was entered and exited if and when RCS pressure lowers to (and then rises above) 2175 psig."
Scenario N17-1-3 ES-D-2	29	Added a Cue to the Sim Driver to Initiate Event 5 right after Boration

## 2017 Ginna Operating Test Changes Document

(Cont'd)	<u>Document</u>	<u>Page #</u>	<u>Change</u>
			is started during the Rapid Downpower.
		31	Changed the Event 4 Transition to Event Cue to <b>“When the Crew diagnoses the failed Feed Reg Valve, Lead Examiner move to Event #5.”</b>
		49	Added the Continuous Action NOTE to Step 13.
		49	Added the Continuous Action NOTE to Step 14.
		53	Added the ECA-1.1 Foldout Page criteria just prior to procedure Step 1.
	<b>Scenario N17-1-4 ES-D-1</b>	1	Changed Rev date to 022317.
		1	Changed Event Type for Event 1 to N(TS)-SRO to credit the SRO for evaluating a Technical Specification in Event 1.
		1	Changed the Event Description for Event 1 to “Load Ascension/High Secondary Activity”
		2	Changed description of Event 1 to include the following: “During the load ascension, Chemistry will call the Control Room and report that the B Steam Generator Secondary Specific Activity is 0.12 µc/gm. The operator will address Technical Specification LCO 3.7.14, “Secondary Specific Activity.”
	<b>Scenario N17-1-4 ES-D-2</b>	1	Added “Technical Specification LCO 3.7.14, “Secondary Specific Activity” (Amendment 80)” as reference 4 to the list of references; and re-numbered remaining references.
		1	Changed validation time to 95 Minutes.
		1	Changed Rev date to 022317.
		2	Changed Event Type for Event 1 to N(TS)-SRO to credit the SRO for evaluating a Technical Specification in Event 1.
		2	Changed the Event Description for Event 1 to “Load Ascension/High Secondary Activity”
		3	Changed description of Event 1 to include the following: “During the load ascension, Chemistry will call the Control Room and report that the B Steam Generator Secondary Specific Activity is 0.12 µc/gm. The operator will address Technical Specification LCO 3.7.14, “Secondary Specific Activity.”
		6	Changed the Event Description for Event 1 to “Load Ascension/High Secondary Activity”
		7-11	Changed the Event Description for Event 1 in the Header to “Load Ascension/High Secondary Activity”
		11	Added Sim Driver Instructions to call Control Room regarding the Chemistry Sample for high Secondary Specific Activity on the B SG; and the Tech Spec LCO, Applicability and Conditions.
		16	Modified the Sim Driver Instruction associated with Step 4 to <b>“SIM DRIVER: as RG&amp;E ECC, acknowledge, and report that Ginna should maintain an output voltage as necessary to maintain MVARs at 50-100 LAG OUT.”</b>
	<b>Scenario N17-1-4 ES-D-2</b>	20	Added a 4 <sup>th</sup> Buller to Sub-step 4b RNO that states “Place Letdown Line Pressure Control Valve PCV-135 in Manual and Close the valve.”

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## 2017 Ginna Operating Test Changes Document

<u>Document</u>	<u>Page #</u>	<u>Change</u>
	24,29,30	Corrected typo in <b>AP-ELEC.1, LOSS OF 12A AND/OR 12B BUSSES</b> (remove the T at the end of ELECT)
	25	Eliminated NOTE associated with first Major Bullet associated with Step 6 (NOTE: Only the C SW Pump is running).
	25	Modified NOTE associated Step 6.a RNO to read as follows: " <b>NOTE:</b> The CO will manually start a second and/or third SW Pump."
	26	Added a NOTE to Step 8 that reads as follows: " <b>NOTE:</b> The RNO will be performed if no Charging Pumps running."
	27	Added a NOTE to Step 14, Bullet 1 that reads as follows: " <b>NOTE:</b> The RNO will be performed if no Charging Pumps running."
	27	Modified Note associated with Step 15 RNO to say " <b>NOTE:</b> Excess Letdown may need to be re-established."
	30	Modified NOTE associated with Step 6.1.3.8 Bullet 5 to say " <b>NOTE:</b> The US may go to Step 6.2, however all 480 Volt Safeguards Buses are energized."
	33	Identified Step 2 and Step 2 RNO as Immediate Action Steps.
	40	Corrected Simulator Codes for isolating the RCP Seals locally.
	43	Modified Examiner NOTE to reference ECA-0.1 Steps on Page 48, rather than Page 49.
<b>Scenario N17-1-5 ES-D-1</b>	1	Changed Rev date to 022217.
<b>Scenario N17-1-5 ES-D-2</b>	1	Changed validation time to 77 Minutes.
	1	Changed Rev date to 022217.
	17	Modified NOTE associated with Condition B of LCO 3.8.9 to state that " <b>NOTE:</b> The US will note that while Instrument Bus B was de-energized, they were in B.1, but came out of this action when power to the Bus was restored."
	27	Changed Event 4 Page Reference from 35 to 36 in Examiner Note.
	32	Eliminated incorrect NOTE associated with Step 17 Bullet (Top of Page).
	32	Corrected DNB setpoint associated with LCO 3.4.1 Condition A from 2205 to 2175 psig.
	33	Added Condition E as required Condition associated with TS LCO 3.4.11 because ACTION associated with B.1 cannot be completed.
	36	Changed AP-TURB.5 Page Reference from 36 to 37 in Examiner Note.
	44,45	Changed FR-S.1 Page Reference from 48 to 49 in Examiner Note.
	50	Identified FR-S.1 Step 8 as a Continuous Action Step.
	53	Changed E-0 Page Reference from 55 to 56 in Examiner Note.
	57	Corrected Typo on Step 11 Bullet 2 (RCOP to RCP).
	62	Corrected SIM DRIVER codes for EO completion of ATT-10.0.
	63	Identified ECA-2.1 Step 3 as a Continuous Action Step.
<b>Scenario N17-1-6 ES-D-1</b>	1	Changed Rev date to 022317.
	1	Corrected multiple font sizes in TURNOVER block.
<b>Scenario N17-1-6 ES-D-1</b> (Cont'd)	2	Corrected the CCW Pump to be manually started in 5 <sup>th</sup> paragraph. Identified correct as the B CCW Pump, rather than the A CCW Pump.

## 2017 Ginna Operating Test Changes Document

<u>Document</u>	<u>Page #</u>	<u>Change</u>
<b>Scenario N17-1-6 ES-D-2</b>	1	Changed Rev date to 022317.
	2	Corrected multiple font sizes in TURNOVER block.
	3	Corrected the CCW Pump to be manually started in 5 <sup>th</sup> paragraph. Identified correct as the B CCW Pump, rather than the A CCW Pump.
	13	Corrected the CCW Pump to be manually started in the descriptive narrative of Event 3. Identified correct as the B CCW Pump, rather than the A CCW Pump.
	15	Corrected typo on AP-CCW.2 Step 1 Bullet 1. (Changed "with" to "white"
	17	Modified SIM DRIVER EO report to indicate that the WHUT level is stable at 15%.
	20	Added a NOTE at the beginning of the event to stating "NOTE: The crew may enter AP-RCS.1 first, but will ultimately shift to AP-RCP.1."
	32	Corrected size of PRZR Steam Space break from "890,000" to "89,000)" in SIM DRIVER Instructions Block.
	35	Changed E-0 Page Reference from 39 to 40 in Examiner Note.
	37-38	Listed all CIVs that need to be manually closed in Step 6b RNO of ATT-27.0.
	46	Corrected typo on Note associated with E-1 Foldout Page. (Was incorrectly identified as E-0 Foldout Page).
	49	Corrected NOTE associated with CCW on ATT-8.5 Step 1, Bullet 1, Sub-Bullet 1 to indicated that "NOTE: The B CCW may be running, or is available to start."
<b>ES-301-1 RO</b>	1	Changed Rev Date to 022717.
<b>JPM A1a RO</b>	1	Changed Rev Date to 022217.
	2	Added an Initial Condition that states "There are no stuck control rods, or control rods that are NOT fully inserted."
	2	Modified the initial Cue to read as follows: "The US has directed you to perform a Xenon Reactivity Calculation in accordance with O-3, Hot Shutdown With Xenon Present, up to Step 6.2.2."
	7	Added an Initial Condition that states "There are no stuck control rods, or control rods that are NOT fully inserted."
	7	Modified the initial Cue to read as follows: "The US has directed you to perform a Xenon Reactivity Calculation in accordance with O-3, Hot Shutdown With Xenon Present, up to Step 6.2.2."
<b>JPM A1b RO</b>	1	Changed Rev Date to 022217.
	5	Changed standard 2 (O-3.1, 6.2/6.2.1) for JPM Step 4 to be 411 ppm (400-420 ppm). This permits a band to be used if the operator interprets the curve on Attachment 1, rather than reads directly from the table at the bottom.
<b>JPM A1b RO (Cont'd)</b>	5	Changed standard 2 (O-3.1, 6.2.2) for JPM Step 5 to be 811 ppm (800-820 ppm). This permits a band to be used if the operator interprets the curve on Attachment 1, rather than reads directly

## 2017 Ginna Operating Test Changes Document

<u>Document</u>	<u>Page #</u>	<u>Change</u>
		from the table at the bottom in JPM Step 4.
	7	Changed standard 2 (O-3.1, 6.3.4) for JPM Step 9 to be 848.3 (837.3-857.3) ppm. This permits a band to be used if the operator interprets the curve on Attachment 1, rather than reads directly from the table at the bottom in JPM Step 4.
	7	Changed standard (Directed Action) for JPM Step 10 to be 848.3 (837.3-857.3) ppm. This permits a band to be used if the operator interprets the curve on Attachment 1, rather than reads directly from the table at the bottom in JPM Step 4.
	KEY	Modified KEY to permit the band allowed at JPM Step 4 to be carried forward.
<b>JPM A2 RO</b>	1	Changed Rev Date to 022217.
	2	Made sure that Initial Conditions and Cues as read by the Examiner to the Applicant were all located on one page (Page 2).
	2	Modified the Initial Conditions for Annunciator A-31 to include the clause "(No Tags have been or will be hung)."
	7	Modified the Initial Conditions for Annunciator A-31 to include the clause "(No Tags have been or will be hung)."
<b>JPM A3 RO</b>	1	Changed Rev Date to 022217.
<b>ES-301-1 SRO</b>	1	Changed Rev Date to 022717.
<b>JPM A1a SRO</b>	1	Changed Rev Date to 022217.
	2	Made sure that Initial Conditions and Cues as read by the Examiner to the Applicant were all located on one page (Page 2).
<b>JPM A1b SRO</b>	1	Changed Rev Date to 022217.
	2	Made sure that Initial Conditions as read by the Examiner to the Applicant were all located on one page (Page 2).
<b>JPM A2 SRO</b>	1	Changed Rev Date to 022217.
<b>JPM A3 SRO</b>	1	Changed Rev Date to 022217.
<b>JPM A4 SRO</b>	1	Changed Rev Date to 022217.
	3	Changed Handout 1 so that the EAL Wall Charts are handed out rather than EP-AA-1012 Addendum 3.
<b>ES-301-2 RO</b>	1	Changed Rev Date to 022717.
<b>ES-301-2 SRO (I)</b>	1	Changed Rev Date to 022717.
<b>ES-301-2 SRO (U)</b>	1	Changed Rev Date to 022717.
<b>JPM A</b>	1	Changed Rev Date to 022217.

## 2017 Ginna Operating Test Changes Document

<u>Document</u>	<u>Page #</u>	<u>Change</u>
	7-8	Modified the design of JPM Step 3 (Including Examiner Cues and SIM Driver responses) to account for the possibility that the operator may wait for the EO to respond after discovering that MOV-813 has NOT closed. If so, the Examiner can provide the cues; and the SIM Driver must take actions per JPM Step 11, accordingly. If the operator continues performing the procedure as expected following the EO local directions; the SIM Driver will provide the necessary cues at JPM Step 10.
	13	Added a Terminating Cue to signal that the JPM is complete.
<b>JPM B</b>	1	Changed Rev Date to 022217.
	2	Made sure that Initial Conditions and Cues as read by the Examiner to the Applicant were all located on one page (Page 2).
	3	Identified JPM Step 8 as a Critical Step.
	11	Added a Terminating Cue to signal that the JPM is complete.
<b>JPM C</b>	1	Changed Rev Date to 022217.
	7	Added a Terminating Cue to signal that the JPM is complete.
<b>JPM D</b>	1	Changed Rev Date to 022217.
	2	Made sure that Initial Conditions and Cues as read by the Examiner to the Applicant were all located on one page (Page 2).
	7	Changed Font Size on JPM Step 4 to be consistent with the remainder of the JPM.
	11	Added a Terminating Cue to signal that the JPM is complete.
<b>JPM E</b>	1	Changed Rev Date to 022217.
	10	Added a Terminating Cue to signal that the JPM is complete.
<b>JPM F</b>	1	Changed Rev Date to 022217.
	6	Modified JPM Step 5 SIM DRIVER such that the cue can be given by the Examiner instead of the SIM DRIVER.
	6	Modified JPM Step 6 SIM DRIVER such that the cue can be given by the Examiner instead of the SIM DRIVER.
	7	Modified JPM Step 7 SIM DRIVER such that the cue can be given by the Examiner instead of the SIM DRIVER.
	9	Modified JPM Step 11 SIM DRIVER such that the cue can be given by the Examiner instead of the SIM DRIVER.
	9	Added a Terminating Cue to signal that the JPM is complete.
<b>JPM G</b>	1	Changed Rev Date to 022317.
	6	Added an Examiner Note after Step 6 stating "Examiner NOTE: Terminate JPM as soon as Containment pressure is observed to be rising."
<b>JPM G (Cont'd)</b>	7	Added a Terminating Cue to signal that the JPM is complete.
<b>JPM H</b>	1	Changed Rev Date to 022317.

## 2017 Ginna Operating Test Changes Document

<u>Document</u>	<u>Page #</u>	<u>Change</u>
<b>JPM I</b>	10	Added a Terminating Cue to signal that the JPM is complete.
	1	Changed Rev Date to 022317.
	5	Modified JPM Step 5 standard to include marking the procedure step NA.
	8	Added a Terminating Cue to signal that the JPM is complete.
<b>JPM J</b>	1	Changed Rev Date to 022317.
	7	Added a Terminating Cue to signal that the JPM is complete.
<b>JPM K</b>	1	Changed Rev Date to 022317.
	5	Added a Terminating Cue to signal that the JPM is complete.