


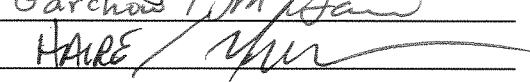


EXAM ASSIGNMENT TICKLER

Chief:	Steve Garchow	Facility:	DC	Date of Written Exam:	11/16/2011	
Start of Op Test:			11/15/2011	End of Op Test:		11/16/2011
Written Exam Developed By: Facility			Operating Test Developed By: Facility			
Due Date	Description	Date Complete	Initials	Notes		
5/18/2011	Written Exam & Op Test Dates Confirmed	9/19/2011	JMB			
7/13/2011	NRC Examiners & Facility Contact Assigned	9/19/2011	JMB			
7/13/2011	Facility Contact Briefed on Security & Other Req's	9/20/11	JMB			
7/13/2011	Corporate Notification Letter sent	9/21/11	JMB	ES-201 Att-4 produced by CE		
N/A	Reference material due (if NRC authored)	N/A	-	ES-201 Att-3		
11/1/2010	Integrated exam outlines due	N/A	-			
11/5/2010	Outlines reviewed by CE; feedback approved by BC	N/A	-	ES-201-2 signed by CE & BC		
11/5/2010	Feedback on integrated outlines provided to facility	N/A	-			
10/24/2011	DRAFT exam / docs / support reference material due	10/23/11	JMB			
10/12/2011	Peer review of written exam complete	N/A	-	Document review on ES-401-9		
10/12/2011	Preliminary license applications due	10/23/11	JMB	NRC Forms 398/396		
10/19/2011	Preliminary license applications and waivers reviewed	10/23/11	JMB			
10/19/2011	DRAFT exam reviewed by CE; feedback approved by BC	10/23/11	JMB			
10/19/2011	Feedback on DRAFT exam provided to facility	10/23/11	JMB			
1/10/2011	On-site validation & 10% audit of license applications	11/14/11	JMB			
11/2/2011	Final applications due & List of Applicants prepared	11/10/11	JMB	ES-201-4 prepared by LA		
11/9/2011	Final applications approved & waiver letters sent	11/10/11	JMB			
11/9/2011	Branch Chief approves FINAL exam (Written & Op Test)	11/10/11	JMB	LA produces / BC signs Exam Approval Letter (ES-201 Att-5)		
11/9/2011	Proctoring/written exam admin guidelines reviewed w/ facility	N/A	-			
11/8/2011	Exam material to exam team	N/A	-			
11/15/2011	Administer Operating Test	11/15/11	JMB			
11/23/2011	Facility post-exam documentation due	NA	JMB			
11/23/2011	NRC written exam grading completed	N/A	-	ES-403-1 to BC		
11/23/2011	Examiner's document op test results on ES 303's	11/17/11	JMB			
11/30/2011	Chief Examiner review of written exam & op test completed	11/17/11	JMB	Signed ES 303's to BC		
12/7/2011	Branch Chief review of exam results completed	11/21/11	JMB			
12/14/2011	Waivers/deferrals reviewed for impact on licensing decision	11/21/11	JMB			
12/14/2011	License/Denial letters mailed; Facility notified of results	11/21/11	JMB			
12/14/2011	RPS/IP number of examinees updated	11/10/11	JMB	print Report-21		
12/28/2011	Examination Report Issued	12/11/11	JMB	produced by CE		
1/4/2012	SUNSI checklist complete and exam docs to ADAMS	11/29/11	JMB	SUNSI checklist to LA		
1/11/2012	Ref Mat'l Returned after Final Resolution of Appeals	NA	-			

Facility: <u>DIABLO CANYON</u>		Date of Examination: <u>11/15/2011</u>		
Item	Task Description	Initials		
		a	b*	c#
1. W R I T T E N	a. Verify that the outline(s) fit(s) the appropriate model, in accordance with ES-401.	N/A	N/A	N/A
	b. Assess whether the outline was systematically and randomly prepared in accordance with Section D.1 of ES-401 and whether all K/A categories are appropriately sampled.	↓	↓	↓
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	↓	↓	↓
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	↓	↓	↓
2. S I M U L A T O R	a. Using Form ES-301-5, verify that the proposed scenario sets cover the required number of normal evolutions, instrument and component failures, technical specifications, and major transients.	JFB	JOK	JMG
	b. Assess whether there are enough scenario sets (and spares) to test the projected number and mix of applicants in accordance with the expected crew composition and rotation schedule without compromising exam integrity, and ensure that each applicant can be tested using at least one new or significantly modified scenario, that no scenarios are duplicated from the applicants' audit test(s), and that scenarios will not be repeated on subsequent days.	JFB	JOK	JMG
	c. To the extent possible, assess whether the outline(s) conform(s) with the qualitative and quantitative criteria specified on Form ES-301-4 and described in Appendix D.	JFB	JOK	JMG
3. W / T	a. Verify that the systems walk-through outline meets the criteria specified on Form ES-301-2: (1) the outline(s) contain(s) the required number of control room and in-plant tasks distributed among the safety functions as specified on the form (2) task repetition from the last two NRC examinations is within the limits specified on the form (3) no tasks are duplicated from the applicants' audit test(s) (4) the number of new or modified tasks meets or exceeds the minimums specified on the form (5) the number of alternate path, low-power, emergency, and RCA tasks meet the criteria on the form.	N/A	N/A	N/A
	b. Verify that the administrative outline meets the criteria specified on Form ES-301-1: (1) the tasks are distributed among the topics as specified on the form (2) at least one task is new or significantly modified (3) no more than one task is repeated from the last two NRC licensing examinations	↓	↓	↓
	c. Determine if there are enough different outlines to test the projected number and mix of applicants and ensure that no items are duplicated on subsequent days.	↓	↓	↓
4. G E N E R A L	a. Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam sections.	JFB	JOK	JMG
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	JFB	JOK	JMG
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	N/A	JOK	JMG
	d. Check for duplication and overlap among exam sections.	N/A	JOK	JMG
	e. Check the entire exam for balance of coverage.	JFB	JOK	JMG
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	JFB	JOK	JMG
a. Author	<u>JOHN F. BUCKLEY</u> / <u>[Signature]</u>	Date: <u>10-18-11</u>		
b. Facility Reviewer (*)	<u>JEFFREY D. KOCAN</u> / <u>[Signature]</u>	Date: <u>10-18-11</u>		
c. NRC Chief Examiner (#)	<u>STEPHEN GARCHAN</u> / <u>[Signature]</u>	Date: <u>11-7-11</u>		
d. NRC Supervisor	<u>MARY HAIRE</u> / <u>[Signature]</u>	Date: <u>11/10/11</u>		
Note:		# Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required. * Not applicable for NRC-prepared examination outlines		

Facility: <u>Diablo Canyon</u>		Date of Examination: <u>11/15/2011</u>	Operating Test Number: <u>L091C-NRC</u>	
1. GENERAL CRITERIA		Initials		
		a	b*	c#
a.	The operating test conforms with the previously approved outline; changes are consistent with sampling requirements (e.g., 10 CFR 55.45, operational importance, safety function distribution).	JFB	JOK	JMS
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	N/A JFB	JOK	JMS
c.	The operating test shall not duplicate items from the applicants' audit test(s)(see Section D.1.a).	JFB	JOK	JMS
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	JFB	JOK	SMB
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	JFB	JOK	JMS
2. WALK-THROUGH CRITERIA		--	--	--
a.	Each JPM includes the following, as applicable: <ul style="list-style-type: none"> • initial conditions • initiating cues • references and tools, including associated procedures • reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time critical by the facility licensee • operationally important specific performance criteria that include: <ul style="list-style-type: none"> - detailed expected actions with exact criteria and nomenclature - system response and other examiner cues - statements describing important observations to be made by the applicant - criteria for successful completion of the task - identification of critical steps and their associated performance standards - restrictions on the sequence of steps, if applicable 	N/A JFB	JOK	SMB
b.	Ensure that any changes from the previously approved systems and administrative walk-through outlines (Forms ES-301-1 and 2) have not caused the test to deviate from any of the acceptance criteria (e.g., item distribution, bank use, repetition from the last 2 NRC examinations) specified on those forms and Form ES-201-2.	N/A JFB	JOK	SMB
3. SIMULATOR CRITERIA		--	--	--
The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.		JFB	JOK	SMB
		Printed Name / Signature		Date
a.	Author	<u>John F. Buckley</u> 		<u>10/18/2011</u>
b.	Facility Reviewer (*)	<u>Jeff Kocan</u> 		<u>10-18-2011</u>
c.	NRC Chief Examiner (#)	<u>Stephen Garchow</u> 		<u>11-7-11</u>
d.	NRC Supervisor	<u>MARK HAURE</u> 		<u>11/8/11</u>
NOTE: * The facility signature is not applicable for NRC-developed tests # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence is required.				

Facility: Diablo Canyon Date of Exam: 11/15/2011 Scenario Numbers: 01 / 02 / 03 Operating Test Number: L091C					
QUALITATIVE ATTRIBUTES		Initials			
		a	b*	c#	
1.	The initial conditions are realistic, in that some equipment and/or instrumentation may be out of service, but it does not cue the operators into expected events.	JAB	JOK	SMB	
2.	The scenarios consist mostly of related events.	JAB	JOK	SMB	
3.	Each event description consists of <ul style="list-style-type: none"> the point in the scenario when it is to be initiated the malfunction(s) that are entered to initiate the event the symptoms/cues that will be visible to the crew the expected operator actions (by shift position) the event termination point (if applicable) 	JAB	JOK	SMB	
4.	No more than one non-mechanistic failure (e.g., pipe break) is incorporated into the scenario without a credible preceding incident such as a seismic event.	JAB	JOK	SMB	
5.	The events are valid with regard to physics and thermodynamics.	JAB	JOK	SMB	
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	JAB	JOK	SMB	
7.	If time compression techniques are used, the scenario summary clearly so indicates. Operators have sufficient time to carry out expected activities without undue time constraints. Cues are given.	JAB	JOK	SMB	
8.	The simulator modeling is not altered.	JAB	JOK	SMB	
9.	The scenarios have been validated. Pursuant to 10CFR55.46(d), any open simulator performance deficiencies or deviations from the referenced plant have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.	JAB	JOK	SMB	
10.	Every operator will be evaluated using at least one new or significantly modified scenario. All other scenarios have been altered in accordance with Section D.5 of ES-301.	JAB	JOK	SMB	
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	JAB	JOK	SMB	
12.	Each applicant will be significantly involved in the minimum number of transients and events specified on Form ES-301-5 (submit the form with the simulator scenarios).	JAB	JOK	SMB	
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	JAB	JOK	SMB	
Target Quantitative Attributes (Per Scenario; See Section D.5.d)		Actual Attributes			
		--	--	--	
1.	Total malfunctions (5-8)	7 / 7 / 7	JAB	JOK	SMB
2.	Malfunctions after EOP entry (1-2)	2 / 2 / 2	JAB	JOK	SMB
3.	Abnormal events (2-4)	4 / 4 / 4	JAB	JOK	SMB
4.	Major transients (1-2)	1 / 1 / 1	JAB	JOK	SMB
5.	EOPs entered/requiring substantive actions (1-2)	2 / 2 / 1	JAB	JOK	SMB
6.	EOP contingencies requiring substantive actions (0-2)	1 / 0 / 1	JAB	JOK	SMB
7.	Critical tasks (2-3)	3 / 2 / 3	JAB	JOK	SMB

Group 1 (I, S¹, S²)

Facility: Diablo Canyon Date of Exam: 11/15/2011 Operating Test Number: L091C

A P P L I C A N T	E V E N T T Y P E	Scenarios												T O T A L	M I N I M U M (*)		
		1			2			3			4						
		C R E W P O S I T I O N			C R E W P O S I T I O N			C R E W P O S I T I O N			C R E W P O S I T I O N						
		S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P				
													R	I	U		
RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input checked="" type="checkbox"/>	RX					2									1	1	1
	NOR					1*								1	1	1	1
	I/C	1,2,3,4,7				2,3,4,6,7								10	4	4	2
	MAJ	5				5								2	2	2	1
	TS	1,2,3,4												4	0	2	2
RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2

Instructions:

1. Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must serve in both the "at-the-controls (ATC)" and "balance-of-plant (BOP)" positions. Instant SROs must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an Instant SRO *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.
2. Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a 1-for-1 basis.
3. Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirements specified for the applicant's license level in the right-hand columns.

Facility: Diablo Canyon		Date of Examination: 11/15/2011								Operating Test No.: L091C							
Competencies	APPLICANTS																
	RO <input type="checkbox"/>				RO <input type="checkbox"/>				RO <input type="checkbox"/>				RO <input type="checkbox"/>				
	SRO-I <input checked="" type="checkbox"/>				SRO-I <input type="checkbox"/>				SRO-I <input type="checkbox"/>				SRO-I <input type="checkbox"/>				
	SRO-U <input type="checkbox"/>				SRO-U <input type="checkbox"/>				SRO-U <input type="checkbox"/>				SRO-U <input type="checkbox"/>				
SCENARIO				SCENARIO				SCENARIO				SCENARIO					
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Interpret/ Diagnose Events and Conditions	1,2,3,4,5,7	1,2,3,4,5,6,7															
Comply With and Use Procedures (1)	1,2,3,4,5,7	1,2,3,4,5,6,7															
Operate Control Boards (2)		1,2,3,4,5,6,7															
Communicate and Interact	1,2,3,4,5,7	1,2,3,4,5,6,7															
Demonstrate Supervisory Ability (3)	1,2,3,4,5,7																
Comply With and Use Tech Specs. (3)	1,2,3,4																
Notes: (1) Includes Technical Specification compliance for an RO. (2) Optional for an SRO-U. (3) Only applicable to SROs.																	

Instructions:

Check the applicant's license type and enter one or more event numbers that will allow the examiners to evaluate every applicable competency for every applicant.

Operator Licensing Exam Schedule

From 11/01/2011 To 12/01/2011

Region: 4

Phase Code: 5

Exam Week	Site/Docket No./Insp Rpt #	# Candidates	Type	Exam Author	Chief Examiner	Examiners Assigned
09/17/2011	Diablo Canyon / 05000275 / TAC #: X02505		Prep	FFF	GARCHOW, STEPHEN M.	GARCHOW, STEPHEN M. STEELY, CHRISTOPHER D.
09/17/2011	Diablo Canyon / 05000323 / TAC #: X02506		Prep	FFF	GARCHOW, STEPHEN M.	GARCHOW, STEPHEN M. STEELY, CHRISTOPHER D.
11/14/2011	Diablo Canyon / 05000275 / TAC #: X02505	SROI - 1	Admin	FFF	GARCHOW, STEPHEN M.	GARCHOW, STEPHEN M. STEELY, CHRISTOPHER D.
11/14/2011	Diablo Canyon / 05000323 / TAC #: X02506		Admin	FFF	GARCHOW, STEPHEN M.	GARCHOW, STEPHEN M. STEELY, CHRISTOPHER D.
11/17/2011	Diablo Canyon / 05000275 / TAC #: X02505		Doc	FFF	GARCHOW, STEPHEN M.	GARCHOW, STEPHEN M. STEELY, CHRISTOPHER D.
11/17/2011	Diablo Canyon / 05000323 / TAC #: X02506		Doc	FFF	GARCHOW, STEPHEN M.	GARCHOW, STEPHEN M. STEELY, CHRISTOPHER D.

Operator Licensing Exam Schedule

From 11/01/2011 To 12/01/2011

Region: 4

Phase Code: 5

Summary By Date

Date	Site	RO	SROI	SROU	LSRO	Total
09/2011	DIAB - Diablo Canyon	RO - 0	SROI - 0	SROU - 0	LSRO - 0	Total for Diablo Canyon: 0
09/2011		RO - 0	SROI - 0	SROU - 0	LSRO - 0	Total for 09/2011: 0
11/2011	DIAB - Diablo Canyon	RO - 0	SROI - 1	SROU - 0	LSRO - 0	Total for Diablo Canyon: 1

Operator Licensing Exam Schedule

From 11/01/2011 To 12/01/2011

Region: 4

Phase Code: 5

Summary By Site

DIAB - Diablo Canyon	RO - 0	SROI - 1	SROU - 0	LSRO - 0	Total for Diablo Canyon: 1
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Operator Licensing Exam Schedule

From 11/01/2011 To 12/01/2011

09:40:44

Region: 4

Phase Code: 5

Summary By Region

Region 4	SROI - 1	SROU - 0	LSRO - 0	Total for Region 4: 1
RO - 0				

LOGIC OP

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 11/17/11 11/18/11 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training content or provide direct or indirect feedback). Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of 11/17/11 11/18/11. From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE NOTE
1. John Buckley	ESC Exam Developer	[Signature]	9/19/11	[Signature]	11/15/11
2. GARY WACHS	Exam Developer	[Signature]	9/19/11	[Signature]	11/15/11
3. JOHN RECERA	EXAM DEVELOPER	[Signature]	9/12/11	[Signature]	11/15/11
4. JEFF KOCAN	SUPERVISOR SIMEXM OPS/FORMSW/INSURGR	[Signature]	9/15/11	[Signature]	11/15/11
5. William Hendy	Manager - Operator Training	[Signature]	9/20/11	[Signature]	11/17/11
6. DALE LESSARD	Simulator Team	[Signature]	9/28/11	[Signature]	11/17/11
7. RICHARD HICKS	OPERATOR	[Signature]	10/17/11	[Signature]	11-10-11
8. CAROL MEEHIGAN	Shift Foreman	[Signature]	10/12/11	[Signature]	11/17/11
9. Alex Brown	Reactor Operator	[Signature]	10/17/11	[Signature]	11/15/11
10. Thomas J. Lamowski	LS Simulator Support	[Signature]	10/17/11	[Signature]	11/17/11
11. Jody Ryan	CEO, Corgis Thunder	[Signature]	10/17/11	[Signature]	11/15/11
12. Stanley Chan	CEO Corgis Thunder	[Signature]	10/17/11	[Signature]	11/15/11
13. MICHAEL FEUDLEY	DIR, NUCLEAR OPS FOR GSE	[Signature]	10/17/11	[Signature]	11/15/11
14. Trevor Renshaw	Systems Analyst GSE	[Signature]	10/17/11	[Signature]	11/15/11
15. Inever Renshaw	Systems Analyst GSE	[Signature]	10/17/11	[Signature]	11/15/11

NOTES: * SIM UNUSUALS - ONLY ON SITE 10/17/11

(1) Individuals contacted by telephone & concurred w/ Post-Examination statement:
DANL 11/18/11

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 11/14/11 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training content or provide direct or indirect feedback). Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of 11/14/11. From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE NOTE
1. Rothstein	Work Control lead	<i>[Signature]</i>	11-14-11	<i>[Signature]</i>	11-15-11
2. Casey Weir	Control Operator	<i>[Signature]</i>	11-14-11	<i>[Signature]</i>	11-17-11
3. Meadon Wilson	SEM	<i>[Signature]</i>	11-14-11	<i>[Signature]</i>	11-15-11
4. THOMAS WRIGHT	QUALITY ASSURANCE	<i>[Signature]</i>	11-14-11	<i>[Signature]</i>	11-15-11
5. Darrell Johnson	SFM	<i>[Signature]</i>	11-15-11	<i>[Signature]</i>	11-15-11
6. DAN DEBRASSET	STARTUP/SHUT	<i>[Signature]</i>	11-15-11	<i>[Signature]</i>	11-15-11
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					

NOTES: