## July 14, 2016

Ms. Catherine Hanev Serial No. **Regional Administrator** NAPS/JHL U. S. Nuclear Regulatory Commission, Region II Marquis One Tower 245 Peachtree Center Ave., NE Suite 1200 Atlanta, Georgia 30303-1257

15-612G Docket Nos. 50-338 50-339 License Nos. NPF-4 NPF-7

Dear Ms. Haney:

## VIRGINIA ELECTRIC AND POWER COMPANY (DOMINION) NORTH ANNA POWER STATION UNITS 1 AND 2 **OPERATOR LICENSE EXAMINATION COMMENTS**

On July 7, 2016, the written examination for initial reactor operator and senior reactor operator candidates was administered at North Anna Power Station. Attachment 1 provides the information requested in NUREG-1021, ES-501, Initial Post-Examination Activities, Section C.1.a. In addition, Attachment 2 provides comments on the operating examination for consideration. The attachments to this letter are being provided to Mr. Bruno Caballero, NRC Chief Examiner. Prompt consideration of these comments and recommendations will assist in completing the license examination process.

If there are any questions concerning this material, please contact Mr. Bill Standley at the North Anna Training Center, (540) 894-2446.

Very truly yours,

Gerald T. Bischof Site Vice President

Attachments

Commitments made in this letter: None.

cc: Document Control Desk (without attachments) U. S. Nuclear Regulatory Commission Washington, D. C. 20005

> Mr. Eugene F. Guthrie, Chief (without attachments) U. S. Nuclear Regulatory Commission, Region II Operator Licensing and Human Performance Branch Division of Reactor Safety Marquis One Tower 245 Peachtree Center Ave., NE Suite 1200 Atlanta, Georgia 30303-1257

> Mr. Bruno Caballero U. S. Nuclear Regulatory Commission, Region II Operator Licensing and Human Performance Branch Division of Reactor Safety Marquis One Tower 245 Peachtree Center Ave., NE Suite 1200 Atlanta, Georgia 30303-1257

NRC Senior Resident Inspector (without attachments) North Anna Power Station

## ATTACHMENT 2

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## **OPERATOR LICENSE EXAMINATION COMMENTS**

VIRGINIA ELECTRIC AND POWER COMPANY (DOMINION) NORTH ANNA POWER STATION UNITS 1 AND 2

## Post Exam Comments

## Simulator Scenario 4 Event number 5 (Letdown Leak)

## Comment:

The requirement for entry into Tech Spec 3.6.1, Containment, due to a leak on the letdown line outside of containment, is incorrect.

## **Recommendation:**

Facility recommends that the requirement for entry into T.S. 3.6.1 for inoperable containment be removed from the scenario.

## **Discussion:**

The one hour action of T.S. 3.6.1 does not apply based on the leak was isolated by closing the inside containment isolation valve which prevents a release from occurring during an accident. T.S. 3.6.3 is the correct T.S. call for this failure based on inoperability of the outside containment isolation due to leak between the valve and containment. This is the position of the Supervisor of Nuclear Shift Operations (Senior License) and was concurred with through the licensing department.

## Administrative JPM A.3 (Radiological Control)

## Comment:

Either RWP Task may be selected for the work to be performed.

## **Recommendation:**

Facility recommends that JPM step 1 not be critical and that the answer key should be changed to accept 2 answers for JPM step 2 depending on which RWP Task was chosen.

## **Discussion:**

The JPM task is to determine the appropriate RWP Task and allowed stay time for locally operating the cold leg loop stop MOV. The initial conditions also stated that it will take 15 minutes to locally close the valve. Neither RWP Task would allow sufficient stay time to fully close the MOV but either RWP Task could have been used to perform the work. The dose rates at the MOV handwheel to be operated are 80 mR/hr. RWP Task 1 is for dose rates less than 100 mR/hr with a dose alarm of 10 mR and a dose rate alarm of 50 mR/hr. RWP Task 2 is for dose rates greater than 100mR/hr with a dose alarm of 20 mR and a dose rate alarm of 150 mR/hr. RWP Task 1 could be used with a change to the dose rate alarm that can be authorized by the HP supervisor in accordance with RP-AA-274 (Radiation Work Permits) step 5.16.5.d (attached). During administration of the JPM, multiple candidates asked questions concerning interaction with the HP supervisor.

JPM Step two would still be critical with two different answers based on which RWP task was selected. RWP Task 1 would have a stay time of 6 minutes. RWP Task 2 would have a stay time of 12 minutes.

Step two still has multiple critical elements needed to arrive at the correct answer:

- 1. Knowledge of equipment location. The cold leg stop was not labeled on the survey map
- 2. Ability to read a survey map
- 3. Ability to read and comply with an RWP. Candidate had to read RWP to determine they needed to leave the area at 80% of allotted dose.
- 4. Ability to calculate a stay time.

Revised JPM and answer key are attached.

#### Dominion North Anna Power Station ADMINISTRATIVE JOB PERFORMANCE MEASURE EVALUATION

#### **OPERATOR PROGRAM**

#### **INITIAL CONDITIONS**

Unit 2 is shutdown. The "A" Cold Leg Loop Stop Valve MOV has stopped in mid-position and must be locally closed by the hand wheel.

The dose rates are shown on the attached Unit 2 Containment, 262' Elevation "A" Motor Cube.

It will take 15 minutes to locally close the valve; assume no dose is accumulated in transit to or from the work location.

Your accumulated dose this quarter is 300 mrem.

#### **INITIATING CUE**

You are directed to determine the maximum stay time AND the correct RWP task number (16-2229-1 or 16-2229-2).

1. The correct RWP is \_\_\_\_\_

2. The maximum stay time is \_\_\_\_\_ minutes.

#### Dominion North Anna Power Station ADMINISTRATIVE JOB PERFORMANCE MEASURE EVALUATION

#### **OPERATOR PROGRAM**

## **TASK**

Determine the following:

- Correct RWP and subtask
- Dose Alarm
- Dose Rate Alarm
- Stay Time (Maximum and Allowed by RWP)

#### TASK STANDARDS

The operator determines the previously listed variables successfully.

#### K/A REFERENCE:

GEN 2.3.7 (3.5/3.6)

#### ALTERNATE PATH:

N/A

#### TASK COMPLETION TIMES

Validation Time = 20 minutes Actual Time = \_\_\_\_ minutes Start Time = \_\_\_\_\_ Stop Time = \_\_\_\_\_

#### PERFORMANCE EVALUATION

Rating	[] SATISFACTORY	[] UNSATISFACTORY	
Candidate (Print)			
Evaluator (Print)	n		
Evaluator's Signature / Date	J		
EVALUATOR'S COMMENTS			

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#### Dominion North Anna Power Station

#### ADMINISTRATIVE JOB PERFORMANCE MEASURE (Evaluation)

#### OPERATOR PROGRAM

#### READ THE APPLICABLE INSTRUCTIONS TO THE CANDIDATE

#### Instructions for Simulator JPMs

I will explain the initial conditions, and state the task to be performed. All control room steps shall be performed for this JPM, including any required communications. I will provide initiating cues and reports on other actions when directed by you. Ensure you indicate to me when you understand your assigned task. To indicate that you have completed your assigned task return the handout sheet I provided you.

#### Instructions for In-Plant JPMs

I will explain the initial conditions, and state the task to be performed. All steps, including any required communications, shall be simulated for this JPM. Under no circumstances are you to operate any plant equipment. I will provide initiating cues and reports on other actions when directed by you. Ensure you indicate to me when you understand your assigned task. To indicate that you have completed your assigned task return the handout sheet I provided you.

#### INITIAL CONDITIONS

Unit 2 is shutdown. The "A" Cold Leg Loop Stop Valve MOV has stopped in mid-position and must be locally closed by the hand wheel.

The dose rates are shown on the attached Unit 2 Containment, 262' Elevation "A" Motor Cube.

It will take 15 minutes to locally close the valve; assume no dose is accumulated in transit to or from the work location.

Your accumulated dose this quarter is 300 mrem.

#### **INITIATING CUE**

You are directed to determine the maximum stay time AND the correct RWP task number (16-2229-1 or 16-2229-2).

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## **EVALUATION METHOD**

<u>Demonstration</u> if conducted in the simulator or in a laboratory (use DEMONSTRATION cues) <u>Verbal-visual</u> if conducted in the station or on a dead simulator (use VERBAL-VISUAL cues)

#### TOOLS AND EQUIPMENT

RWPs, Survey Map, Calculator

#### PERFORMANCE STEPS

**START TIME** 

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the job.		<u>RWP 16-2229-2</u>
Critical Step		SAT [] UNSAT [
Standards	RWP 16-2229-2 is selected from the two F	WPs provided.

ſ	2	Determine the maximum stay time	Procedure Step:
			RWP 16-2229-2

## Critical Step

## SAT[] UNSAT[]

Standards	If RWP Task 1 is selected then use the following calculation:
	Operator uses RWP to determine dose alarm is set at 10 mRem.
	Operator determines from the RWP (Worker Instruction #4) that the Operator must place the plant in a safe condition and leave the area once 80% of the dose alarm setpoint is reached.
	Operator determines that they must leave the area after 16mRem of dose has been achieved. (80% * 10 mRem = 8 mRem)
	Operator uses survey map to determine general area dose rate is 80 mR/hr.
	<u>Operator then divides 8 by 80 to obtain a stay time of 6 minutes</u> (.10 hrs).
	If RWP Task 2 is selected then use the following calculation:
	Operator uses RWP to determine dose alarm is set at 20 mRem.
	Operator determines from the RWP (Worker Instruction #4) that the Operator must place the plant in a safe condition and leave the area once 80% of the dose alarm setpoint is reached.
	Operator determines that they must leave the area after 16mRem of dose has been achieved. (80% * 20 mRem = 16 mRem)
	Operator uses survey map to determine general area dose rate is 80 mR/hr.
	Operator then divides 16 by 80 to obtain a stay time of 12 minutes (.20 hrs).

Notes/Comments:

## **END OF EVALUATION**

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STOP TIME

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# **Answer Key**

- **1.** The correct RWP is <u>16-2229-2</u>
- **2.** The maximum stay time is <u>RWP Task 1: 6 minutes (or the equivalent = .10 hour or 1/10 hour)</u>, <u>RWP Task 2: 12 minutes (or the equivalent = .20 hour or 1/5 hour)</u>.

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# SIMULATOR, LABORATORY, IN--PLANT SETUP (If Required)

#### ADMINISTRATIVE JOB PERFORMANCE MEASURE

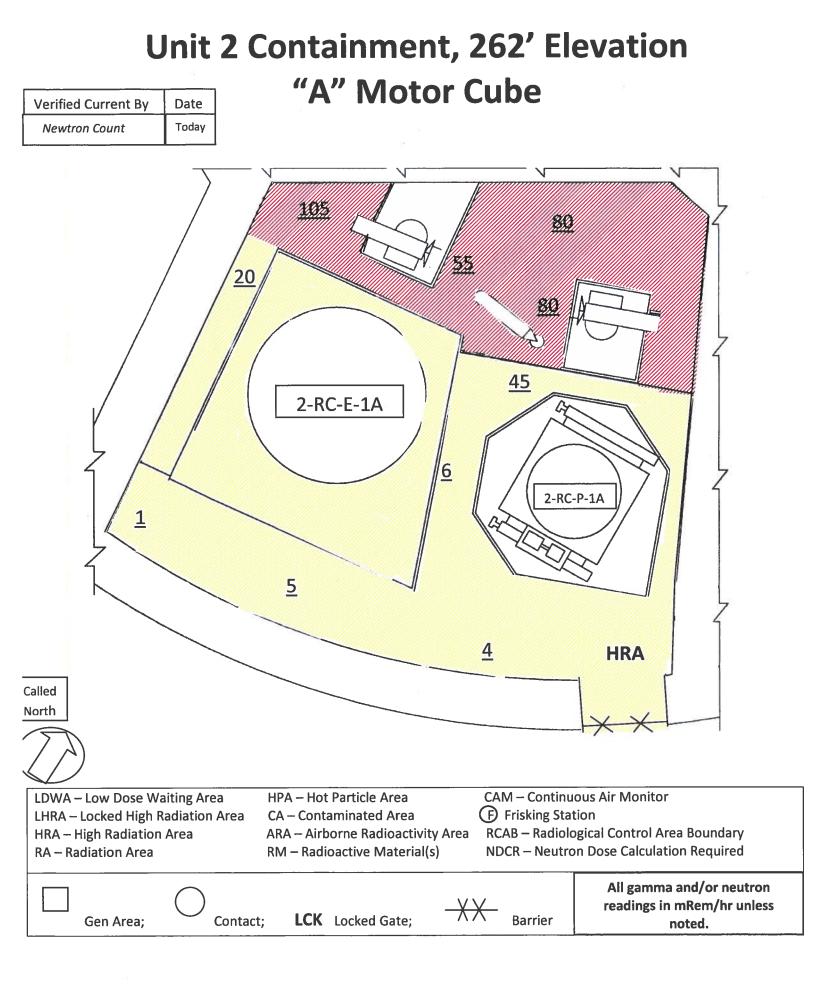
## <u>TASK</u>

Determine appropriate RWP and subtask, Limits, and Stay Times based on various RWP limits.

#### **CHECKLIST**

- \_\_\_\_\_ Survey Map
- \_\_\_\_\_ Selection of RWPs for the candidate to chose from
- Calculator

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## **RADIATION WORK PERMIT SUMMARY 16-2229**

RP-AA-274 ATT, 2

PLANT CODE 2	YEAR 16	RWP NUMBER 16-2229	REV.	RWP START 01-MAR-2016 00:00	TYPE S	CATEGORY RM	RWP EXPIRATION 31-MAY-2016 23:59
WP DESCRIP	TION						
Routine dutles, walk	downs and valve	e line-ups by Operations	personnel.				
ASK SUMMAR	χγ				DOSE ALARM	DOSE RATE AL	ARM TIME INTERVAL
	0 mrem/hr: Rou	tine duties, walkdowns a	nd valve line	ups by Operations	10	60	
personnel. 2 Dose rates >10 personnel	0 mrem/hr: Rou	uline dulies, walkdowns,	and valve lin	e-ups by Operations	20	` 150	
	ATION						
ALARA Review 16-0		Н	ours-Es	i <b>mated</b> 1999998		Pers	<b>son-mrem</b> 2845
PECIAL INSTR	RUCTIONS			***			
-Notify HP Prior to e -Sign in on an RWP -Understand the ED -Understand the rad	ntry that ALLOWS e Alarm set points lological conditio Dosimetry freque	ea Entry or Locked High i ntry into a High Radiation and your response to a ns (eg. dose rates) in the ntly. (Approximately even	n Area or Loc dose or dose area	ked High Radiation Area. rate alarm.			
Prepared By	Robert M	Nuti DATE:	09-DEC-201	15 00:0( Approved By D	$\gamma(\varepsilon)$		TE: 1-5-16
Revised By		DATE:		Approved By	11 C ~ LL		TE:
				Approved By		DA	

Task Number 1 OF 2

RP-AA-274 ATT. 2

	01-MAR-2016 00:00	TO <sup>31-MA</sup>	Y-2016 23:59	RWP 16-2229-1	REV. NO <sup>0</sup>
DOSE RATE ALA	RM: <sup>50</sup> m	rem/Hr		BUDGETED DOSE:	<sup>245</sup> mrem
OSE LIMIT ALA	RM: <sup>10</sup> m	rem	ALARA	EVALUATION NO:	16-013
OB LOCATIONS Station Property excludin	S: ng Unit 1 Reactor Conteinme F	nt.		4	
JOB DESCRIPTIC	ON: Dose rates <100	9 mrem/hr: Routine dutie	s, walkdowns and valve line-u	ps by Operations personnel.	
THE MAXIMUM Locked High Radiation	POSTED AREA THA	AT CAN BE ENT	ERED:	(*):	а (е) 1
RADIOLOGICAL	CONDITIONS: *Indic	ates estimated valu	e for RWP Preparation.	See survey forms for det	ails
SENERAL AREA See Radiological Statu	RADIATION LEVEL s Boards or specific survey for	.S (mrem/hr):	¥.	8	8 14
	POT RADIATION LI s Boards or specific survey for		r):	3	5
CONTAMINATION See Radiological Status	LEVELS (dpm/100 s Boards or specific survey for	)cm2):		5	
AIRBORNE RADIO	OACTIVITY (DAC):		×.		a a
REQUIRED JOB (	COVERAGE:	2		*	ŝ
		•	•		
'1.1)When loo has know	coverage require ose surface level wn DRPs greater t	ls are greater than or equal (	than 1,000,000dp to 100 mrem/hr on than 5,000 mrem/	contact (open win	, dow) .
1.0)Continuous 1.1)When loo has know	coverage require ose surface level wn DRPs greater t tremity dose rate	ls are greater than or equal (	to 100 mrem/hr on	contact (open win	) dow) .
1.0) Continuous 1.1) When loo has know 1.2) When ext OOSIMETRY REQ ED/SRD OOSIMETRY COM 1.0) Caution: If secured so PAM (ED) ala 2.0) Notify HP g	coverage require one surface level wn DRPs greater to tremity dose rate UIREMENTS: IMENTS: f PAM(ED) is util that individual	ls are greater than or equal ( es are greater TLD .ized, ensure H can feel the w ato a "Neutron	to 100 mrem/hr on than 5,000 mrem/ , PAM(ED) is ribration if Exposure	contact (open win	, dow) .
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#### PROTECTIVE CLOTHING REQUIREMENTS: LAB COAT; SHOE COVERS & GLOVES MAY BE WORN FOR ANY NON-PHYSICAL ACTIVITIES (I.E. OBSERVATIONS OR EQUIPMENT CHECKS) AND CONTAMINATION LEVELS ARE LESS THAN 10,000 DPM/100CM2. 1.0) Required Protective clothing: 1.1) Surgeons Hood 1.1.1) Full hoods required in cavity, accessing over head in loop rooms, and when wearing communication devices/headsets. 1.2) One Pair Coveralls 1.3) Rubber Boots 1.4) High Top Shoe Covers 1.5) Cotton Inserts 1.6) One Pair Rubber Gloves 2.0) Protective Clothing requirements as stated are for entry into "Contaminated Areas" only. 3.0) Protective Clothing requirements for a "Hot Particle Area" (HPA) (in addition to those stated above] are: 3.1)Hood, gloves, coveralls, high top shoe covers and rubber boots. 3.2)Workers interfacing with individuals/equipment in a HPA - Gloves and face shield. A RWP PRE-JOB BRIEFING IS REQUIRED: HRA BRIEF BY AN HP TECHNICIAN AND SIGN ATTENDANCE SHEET. WORKER INSTRUCTIONS: NOTE: ED dose rate alarm set-points are set conservatively at a low, yet feasible value for ALARA purposes. It is expected that some ED dose rate alarms may be received when dose rate alarm set-points are set below 100 mR/hr. 1.0)ED Alarms! 1.1) If ED dose rate alarm occurs, reposition yourself such that the alarm clears. 1.1.1) If ED dose rate alarm continues or three consecutive dose rate alarms occur, then leave area immediately and report to the HP Office ? 1.2) If ED dose alarm occurs, then leave area immediately and report to the HP Office. 2.0)Do not enter High Radiation Areas without HP coverage or a ED with knowledge of work area dose rates. 3.0) Workers shall read their ED approximately every 15 minutes. 4.0)When 80% of the dose alarm set point is reached, leave work area in a safe condition and exit the RCA. 5.0) Workers are responsible for notifying the HP Supervisor prior to venting\draining ( systems, that may affect Radiological Conditions in an area, to ensure proper Health Physics Monitoring. 6.0) HPA exit instructions: 6.1) Use extreme care in removing PCs and frisking. 6.2) Workers are to be monitored by HP upon exiting the HPA. 6.3) Individuals exiting the HPA are to proceed directly to the RCA exit to perform whole body monitoring. 6.4) Workers are to be monitored by HP after interfacing with workers/equipment in a HPA. 7.0)Do not remove any items from a posted "Hot Particle Area" until authorized by HP-ODS. 8.0) Remote telemetrics dosimetry shall be used for workers entering containment when available. 9.0)If telemetric ED is used then check in with HP after the telemetric ED has been issued to verify that it is transmitting properly. 10.0)Notify Health Physics prior to setting up any ladder. 11.0)Notify HP prior to entry in overhead areas greater than 8 feet. i2.0)Prior to returning Electronic Dosimetry(ED), all individuals shall process through the PDA for whole body monitoring. This is not required if returning ED solely for the purpose of changing RWPs.

#### **HEALTH PHYSICS INSTRUCTIONS:**

This RWP authorizes work in an ALPHA Level II area.

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1.0)Stop work and leave area if whole body dose rates exceed 100 mRem/hr.
1.1)If ED dose rate alarm equals the stop work dose rate, then DO NOT authorize
worker to work through an alarm.

2.0) "Hot Particle Area" (HPA) monitoring requirements:

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2.1) Workers exposed skin shall be monitored by HP-Ops every four hours (unless specified by the HP Supervisor) while the workers are in the HPA.

2.2) Personnel monitoring for workers exiting the HPA will consist of a whole body scan within 1/2 inch using a RO-2 or equivalent (open window) with background less than 1.0 mrem/hr.

2.3) Worker release criteria: a net reading of less than 2.0 mrem/hr.

2.4) Instruct all individuals exiting the HPA to proceed directly to the RCA exit to perform whole body monitoring.

Task Number 2 OF 2

* <sup>*</sup>					RP-AA-274 ATT. 2			
VALID FROM	01-MAR-2016 00:0	• <b>TO</b>	31-MAY-201	6 23:59	RWP 16-222	9-2	REV. NC	0
DOSE RATE ALAR	M: 150	mrem/Hr			BUDGETEL	DOSE: 2800	mrem	
DOSE LIMIT ALARI	M: 20	mrem		ALAF	RA EVALUATI	ON NO: 16-013		
JOB LOCATIONS: STATION PROPERTY EXC	CLUDING U-1 CONT	AINMENT ,	ł.	ž			\$	
JOB DESCRIPTION	I: Dose rates	s >100 mrem/hr: Rou	tine dutles, wal	ikdowns, and valve lin	e-ups by Operation	s personnel		
THE MAXIMUM PO Locked High Radiation An		THAT CAN BE	EENTERE	ED:	)			
RADIOLOGICAL CO	ONDITIONS:*	Indicates estimate	ed value for	RWP Preparatio	n. See survey fo	orms for details		
GENERAL AREA R See Radiological Status B	ADIATION LE loards or specific sur	VELS (mrem/h vey form	n <b>r):</b> ∾	*		*		
CONTACT/HOT SP See Radiological Status B	OT RADIATIO	N LEVELS (mi vey form	rem/hr): ,			8		» ، ۲
CONTAMINATION L See Radiological Status B				्र इ	•			
AIRBORNE RADIO	ACTIVITY (DA	C):		¢			•	
REQUIRED JOB CO	OVERAGE:		t	đ				3
COVERAGE COMM 1.0) Continuous H 1.1) When loos known DRP 1.2) When extr	P coverage : e surface le s greater t	evels are gro han or equal	eater tha to 100 m	nrem/hr on co	ntact (oper			8
	IREMENTS:	TLD :				0		
DOSIMETRY COMM 1.0) Caution: If secured so t PAM(ED) alar 2.0) Notify HP pr Area" for ad	PAM(ED) is a hat individu ms. ior to entry	ual can feel y into a "New	the vibr stron Exp	ration if posure	÷			8
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#### PROTECTIVE CLOTHING REQUIREMENTS:

LAB COAT, SHOE COVERS & GLOVES MAY BE WORN FOR ANY NON-PHYSICAL ACTIVITIES (I.E. OBSERVATIONS OR EQUIPMENT CHECKS) AND CONTAMINATION LEVELS ARE LESS THAN 10,000 DPM/100CM2.

#### 1.0) Required Protective clothing: 1.1) Surgeons Hood 1.1.1)Full hoods required in cavity, accessing over head in loop rooms, and when wearing communication devices/headsets. 1.2) One Pair Coveralls 1.3) Rubber Boots 1.4) High Top Shoe Covers 1.5) Cotton Inserts 1.6) One Pair Rubber Gloves 2.0) Protective Clothing requirements as stated are for entry into "Contaminated Areas" only. 3.0) Protective Clothing requirements for a "Hot Particle Area" (HPA) (in addition to those stated above] are: 3.1)Hood, gloves, coveralls, high top shoe covers and rubber boots. 3.2) Workers interfacing with individuals/equipment in a HPA - Gloves and face shield. A RWP PRE-JOB BRIEFING IS REQUIRED: HRA BRIEF BY AN HP TECHNICIAN AND SIGN ATTENDANCE SHEET. WORKER INSTRUCTIONS: 1.0) ED Alarms: 1.1) If ED dose rate alarm occurs, THEN leave area immediately and notify HP (unless authorized by HP Supervisor and have been briefed on proper responses). 1.2) If ED dose alarm occurs, THEN leave area immediately and report to the Health Physics office. 2.0) Do not enter High Radiation Areas without HP coverage or a ED with knowledge of work area dose rates. 3.0) Workers shall read their ED approximately every 15 minutes. 4.0) When 80% of the dose alarm set point is reached, leave work area in a safe condition and exit the RCA. 5.0) Workers are responsible for notifying the HP Supervisor prior to venting\draining systems, that may affect Radiological Conditions in an area, to ensure proper Health Physics Monitoring. 6.0) HPA exit instructions: 6.1) Use extreme care in removing PCs and frisking. 6.2) Workers are to be monitored by HP upon exiting the HPA. 6.3) Individuals exiting the HPA are to proceed directly to the RCA exit to perform whole body monitoring. 6.4) Workers are to be monitored by HP after interfacing with workers/equipment in a HPA. 7.0)Do not remove any items from a posted "Hot Particle Area" until authorized by HP-Ops. 8.0) Notify Health Physics prior to setting up any ladder. 9.0)Notify HP prior to entry in overhead areas greater than 8 feet. 10.0) Remote telemetrics dosimetry shall be used for workers entering containment when available. 11.0) If telemetric ED is used then check in with HP after the telemetric ED has been issued to verify that it is transmitting properly. 12.0) Prior to returning Electronic Dosimetry (ED), all individuals shall process through the PDA for whole body monitoring. This is not required if returning ED solely for the purpose of changing RWPs. HEALTH PHYSICS INSTRUCTIONS: This RWP authorizes work in an ALPHA Level II area. 1.0)Stop work and leave area if whole body dose rates exceed 3000 mRem/hr.

2.0) When the ED dose rate alarm is set >1000 mRem/hr then: 2.1) Stay times and continuous HP coverage is required.

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3.0) "Hot Particle Area" (HPA) monitoring requirements:
3.1) Workers exposed skin shall be monitored by HP-Ops every four hours (unless specified by the HP Supervisor) while the workers are in the HPA.
3.2) Personnel monitoring for workers exiting the HPA will consist of a whole body scan witnin 1/2 inch using a RO-2 or equivalent (open window) with background less than 1.0 mrem/hr.
3.3) Worker release criteria: a net reading of less than 2.0 mrem/hr.
3.4) Instruct all individuals exiting the HPA to proceed directly to the RCA exit to perform whole body monitoring.

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- 5.16.5 **WHEN** RWP task and/or HRA briefing is complete, **THEN PERFORM** the following:
  - a. **ENSURE** each worker records the required entries on Attachment 5, Briefing Attendance Roster.
  - b. ENTER initials on Attachment 5 under 'Briefed By.'
  - c. <u>IF</u> HRA Briefing was checked in HIS-20, <u>THEN</u> ENSURE worker's Plant ID is entered in HIS-20 under the appropriate task.

NOTE: Modifying ED dose and/or dose rate alarm setpoints require RP supervisor approval.

When worker Plant IDs are entered in the HIS-20, individual dose and dose rate alarm setpoints may be revised. If settings are not revised, HIS-20 will automatically set dose and dose rate alarms based on RWP task values.

ED dose rate alarms are never set above stop work dose rates.

- d. <u>IF</u> an individual's ED dose and/or dose rate alarm setpoints are to be modified from the RWP default values, <u>THEN</u> PERFORM the following:
  - 1. ENSURE desired alarm settings are recorded on Attachment 5.
  - 2. **ENSURE** worker acknowledges set points by signing Attachment 5.
  - 3. **ENSURE** RP supervisor signs on Attachment 5 under 'Briefed By.'
  - 4. ENSURE alarm settings are entered in the HIS-20.

## **INFORMATION USE**

## Administrative JPM A.4 (PAR Update)

#### Comment:

Reporting of previously reported sectors on a PAR update is not critical.

#### **Recommendation:**

Facility recommends that the answer key be modified to make reporting of the previous affected sectors not critical.

#### **Discussion:**

The PAR JPM was administered as a time critical JPM. A post –exam review has identified flaws in the manner in which the JPM was administered that adversely impacted candidate performance.

An Initial Condition of the JPM was that the TSC was not yet manned (implying that no turnover of SEM duties had occurred).

Another Initial Conditions of the JPM was EPIP 1.06, "Protective Action Recommendations", was entered and a PAR was issued. The previously completed EPIP-1.06 and PAR paperwork **are provided for your review**; however the start time of the JPM began prior to the candidates performing a thorough review of the procedure and paperwork.

The JPM task initiating cue was "perform EPIP-1.06, beginning at Step 11" (a marked up copy of an already in progress procedure).

Given the manner in which the JPM was administered the candidates **were placed in the role of assuming SEM duties** (the updated PAR to be given was message number three, one hour and 15 minutes following the first General Emergency declaration). We say "placed in the role", because as previously stated, if they were the SEM from the onset of the event (i.e. Shift Manager who has not yet been relieved since the TSC is not manned) they would have full knowledge of all activities, communications, and conditions up to that point.

To assume the duties and responsibilities of the SEM a turnover is required.

NUREG-0654 requires that facilities have turnover processes in place. EPIP 1.01 Attachment 2 is the facility guidance that implements the NUREG requirement and is required to be completed prior to assuming the duties of the SEM. The candidates were placed in the awkward position of assuming a duty in a manner contrary to both their training and the procedures of the facility. The candidates spent a significant amount of time reviewing, "getting up to speed" with what had transpired because they realize the importance of accuracy in classifying, communicating, & reporting and wanted to make sure they thoroughly understood the situation at hand.

The candidates were told to start at step 11 of EPIP-1.06. This step loops you back to step 7. By strict procedural compliance they check the box for "Average Wind Direction Shifts To Any New Area(s)" and go to Step 17. If the candidates were given time to review the previous steps performed (as would be the case during turnover in a real emergency) they would have reviewed the entire procedure and worked through the procedural difficulties to arrive at the step that requires previous sectors to be included.

A note before step 17 of EPIP-1.06 states: "**NOTE:** A new PAR is only issued for wind shifts, based on the conditions below, in new affected sectors that have NOT been included in a previous PAR." CR1041252 was submitted to enhance the procedure.

RIS 2003-12 Clarification of NRC Guidance for Modifying PARS was reviewed. This RIS was issued based on a utility modified PAR that decreased the effectiveness of a PAR. This utility changed a previous PAR from evacuate to shelter. The updated PAR conflicted with the previous PAR. NAPS EPIP 1.06 has a caution that does not allow downgrading of previous PARS without consultation with the State. The critical step is to identify new sectors affected and make the correct recommendation for those sectors. The updated PAR did not modify the initial PAR provided for the omitted sectors.

The proposed answer key that includes these comments is attached.

## Dominion

## **North Anna Power Station**

## JOB PERFORMANCE MEASURE EVALUATION

## **OPERATOR PROGRAM**

## INITIAL CONDITIONS

At 1330, the SEM declared a General Emergency SG-1.1 for a Station Blackout

At 1400, the SEM declared a General Emergency FG-1.1 Classification was declared on Unit 1

EPIP 1.06, "Protective Action Recommendations", was entered and a PAR was issued. The previously completed EPIP-1.06 and PAR paperwork are provided for your review.

The time is now 1445 minutes and current conditions are:

- Unit 1 : Conditions unchanged
- Unit 2 : Conditions unchanged
- TSC is still not operational
- Meteorological Data
  - o Wind Speed 25 mph
  - o Wind Direction 280°

## **INITIATING CUE**

You are requested to perform EPIP-1.06, beginning at Step 11

Portions of this JPM are time critical.

## Dominion

#### **North Anna Power Station**

#### JOB PERFORMANCE MEASURE EVALUATION

## **OPERATOR PROGRAM**

## <u>TASK</u>

Determine updated protective action recommendations (EPIP-1.06).

## TASK STANDARDS

Task was performed as directed by the procedure referenced in the task statement within parentheses (one of the <u>underlined</u> procedures if several are cited)

#### **K/A REFERENCE:**

GEN-2.4.44 (2.1/4.0)

#### ALTERNATE PATH:

N/A

#### TASK COMPLETION TIMES

Validation Time = 15 minutes

Start Time = \_\_\_\_\_

Actual Time = \_\_\_\_\_ minutes Sto

Stop Time = \_\_\_\_\_

#### PERFORMANCE EVALUATION

Rating	[] SATISFACTORY	[] UNSATISFACTORY
Candidate (Print)		
Evaluator (Print)		
Evaluator's Signature / Date		

## **EVALUATOR'S COMMENTS**

#### Dominion

#### North Anna Power Station

## JOB PERFORMANCE MEASURE

(Evaluation)

### **OPERATOR PROGRAM**

#### READ THE APPLICABLE INSTRUCTIONS TO THE CANDIDATE

### Instructions for Simulator JPMs

I will explain the initial conditions, and state the task to be performed. All control room steps shall be performed for this JPM, including any required communications. I will provide initiating cues and reports on other actions when directed by you. Ensure you indicate to me when you understand your assigned task. To indicate that you have completed your assigned task return the handout sheet I provided you.

#### Instructions for In-Plant JPMs

I will explain the initial conditions, and state the task to be performed. All steps, including any required communications, shall be simulated for this JPM. Under no circumstances are you to operate any plant equipment. I will provide initiating cues and reports on other actions when directed by you. Ensure you indicate to me when you understand your assigned task. To indicate that you have completed your assigned task return the handout sheet I provided you.

## PREREQUISITES

The trainee has completed the applicable course knowledge training at the senior reactor operator level.

#### **INITIAL CONDITIONS**

At 1330, the SEM declared a General Emergency SG-1.1 for a Station Blackout

At 1400, the SEM declared a General Emergency FG-1.1 Classification was declared on Unit 1

EPIP 1.06, "Protective Action Recommendations", was entered and a PAR was issued. The previously completed EPIP-1.06 and PAR paperwork are provided for your review.

The time is now 1445 minutes and current conditions are:

• Unit 1 : Conditions unchanged

- Unit 2 : Conditions unchanged
- TSC is still not operational
- Meteorological Data
  - o Wind Speed 25 mph
  - o Wind Direction 280°

## **INITIATING CUE**

You are requested to perform EPIP-1.06, beginning at Step 11

Portions of this JPM are time critical.

## **EVALUATION METHOD**

<u>Perform</u> if conducted in the simulator or in a laboratory (use Performance Cue(s))

Simulate if conducted in the station or on a dead simulator (use Simulation Cue(s))

## **TOOLS AND EQUIPMENT**

None

PERFORMANCE STEPS

START TIME

1	CHECK THE FOLLOWING:	Procedure Step 7
	Average wind direction shifts to any new area(s) (refer to ATTACHMENT 2, AFFECTED SECTOR(S) MAP)	

Critical Step	SAT[] UNSAT[]

<b>Standards</b>	SRO notes that wind direction has shifted and proceeds to step
	17

Notes/Comments	<u></u>		 		

2	UPDATE ATTACHMENT 2, AFFECTED SECTOR(S) MAP:	Procedure Step <u>17</u>
	•Record time wind data acquired	
	•Record average wind direction from, in degrees	
	•Record average wind speed in mph	
	•Record affected sectors	
	•Mark new area(s) affected on map (use distinguishable markings from previous markings):	
	<ul> <li>Include all downwind sectors from previous PARs for this event</li> </ul>	
	AND	
	All new downwind sectors for the PAR	
	AND	
	<ul> <li>Any downwind sectors through which the wind shift occurred</li> </ul>	

Standards	Attachment 2 is updated (See KEY)

Notes/Comments			
-			

3	COMPLETE PROTECTIVE ACTION RECOMMENDATION:	Procedure Step <u>18.a</u>
	a) Complete ATTACHMENT 3, REPORT OF PROTECTIVE ACTION RECOMMENDATION	
	1) Mark appropriate PAR box(s)	
	2) Record Mile radius and Miles downwind	
	3) Record Downwind Sectors	
	4) Record Potassium Iodide (optional)	
	5) Record Remarks (optional)	
	6) Approve PAR (sign report)	
	7) Record date and time report approved	

SAT []	UNSAT	[]

Critical Step	SAT[] UNSAT[]

Standard	Attachment 3 is completed with updated data (See KEY)

Notes/Comments
The new PAR has evacuated Sectors D and E to the 10 mile downwind (Sectors F,
G, and H are still included from the original PAR.

4	DIRECT EMERGENCY COMMUNICATORS TO NOTIFY OFF-SITE AUTHORITIES OF PAR:	Procedure Step <u>19</u>
	<ul> <li>Virginia Emergency Operations Center (VEOC) notified IAW:</li> </ul>	
	EPIP-1.06, PROTECTIVE ACTION RECOMMENDATIONS	

Critical Step	SAT[] UNSAT[]

Standards	Completed within 15 minutes.

Notes/Comments

## >>>> END OF EVALUATION <<<<<

STOP TIME

# KEY

NUMBER EPIP-1.06	ATTACHMENT TITLE	ATTACHMENT 3
REVISION	REPORT OF PROTECTIVE ACTION RECOMMENDATION	PAGE
11		1 of 1
PAR MESSAGE #	3	
NOTE: • Tra	nsmit to Virginia EOC only using the VEOC ARD.	
	VEOC ARD nonfunctional, <u>THEN</u> use VEOC autodial or direct dial (804) 674- (4) 310-8868.	-2400 or
• <u>IF</u> :	all means of communications with VEOC nonfunctional, <u>THEN</u> use Insta-Pho	ne.
This is North Anna Recommendation. (READ SLOWLY)	Power Station with a(n) Drill Message Emergency Message for Pro Use the Report of Protective Action Recommendation form to copy this	tective Action s message.
	TION DECOMMENDATION.	
SHELTER-I	N-PLACE: Mile radius 360° and Miles downwind in the following s	sectors:
		CRITICAL STEP
EVACUATE:	Mile radius 360° and <u>10</u> Miles downwind in the following sectors:	DATA
, ·	D,E,F,G,H	Additional Sectors
		D & E are the only
BEYOND 10		critical step data
Evacuate	Area: Centerline in degrees;Distance in Miles; Width in	Teel

Shelter-in-place: Centerline	in degrees;Distance in Mil	es; Width in feel
------------------------------	----------------------------	-------------------

POTASSIUM IODIDE:

Recommend implementation of Potassium Iodide (KI) strategies for the general public. The projected dose at the site boundary is  $\geq$  5 Rem Thyroid CDE.

The time is \_\_\_\_\_ (24-hr time).

This is	/ Emergency Communicator.
Message received by: Virginia EOC Watch Officer (name)	

This is North Anna Power Station out at (24-hr time) on (date).	This is North Anna Power Station out at _	(24-hr time) on	_ (date).
---	---	-----------------	-----------

## REMARKS (OPTIONAL) / APPROVAL INFORMATION [DO NOT READ]

NOTE:	Shelter-in-Place may be recommended as a result of evacuation impediments (e.g., Hostile Action events) or other known conditions which make evacuation dangerous.
REMARKS:	

APPROVED BY:	Signature	Today's Date	Current	
	Station Emergency Manager or Recovery Manager	Date	Time	

Signature, Date and Time are CRITICAL STEP DATA. Time must be within 15 minutes of start time.

**KEY** 

#### Condition Report Details Site: North Anna

CPIO	41252			NANN					
		06/28/2016	01-13 PM	Type:	NCAQ				
		06/28/2016		Status:	ASSIGNPENI				
Date R	eporteu:	06/28/2016	01:13 PM	Revision:					
				Revision:	U				
Descri	ption:								
enhanc	ements to	EPIP-1.06 and 4	1.07						
Long [	Descriptio	n:							
EPIP-4. downwi through	07 state; I ind sectors h which the	F PAR change re from previous F wind shift occu	equired due to PARs for this e rred Attachme	wind shift, event AND e ent 3 of bot	, THEN new PA All downwind h EPIP procedu	R must incl sectors for ares for doo	ude the follow the new PAR cumenting and	ring downwi AND • All do I notifying th	2. EPIP-1.06 and nd sectors: • All pwnwind sectors ne State EOC of a
	ange for th Actions:	e change in win	d direction do	es not mak	e it clear that <sub>l</sub>	previous do	wnwind secto	rs should be	e noted.
Notified	i EPIP grou	р							
Locati	ons and P	rogrammatic I	ndicators						
Locatio			indicators	s	afety Qual Clas		Sei: Component C	smic:	EP Cat A: BDB:
					EQ Relate Reg 1.9		component c	PRA:	B.5.b.:
Plant S	ystem:				Арр		F	IELB:	
Local S Only):	ystem(Mill								
Locat	ions and A	Assets		<u>.</u>					
Scree	ning					1.00			8
	nificance	Potential R	lepeat? Previ	ious Issue l	Notes				
CRT.Co	mments:								
Annto			-						
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Туре	CR	Asgmt #	Site	As	ssign'd Dept		ue Date Pi		Eval Status
Туре	<b>CR</b> CA30347	56	NANN		EP	12	<b>ue Date Pi</b> /14/2016		Eval Status JOHN249 INPROG
Туре	<b>CR</b> CA30347	56 CR1041252's	NANN		EP	12			
Туре	CR CA30347 Evaluate 1.06 & 4.	56 CR1041252's	NANN		EP	12			
Type DTI	CR CA30347 Evaluate 1.06 & 4. O	56 CR1041252's	NANN		EP	12	/14/2016		
Type DTI	CR CA30347 Evaluate 1.06 & 4.	56 CR1041252's	NANN		EP	12	/14/2016 	TYLER52	
<b>Type</b> DTI <b>5.2 W</b>	CR CA30347 Evaluate 1.06 & 4. O WO #:	56 CR1041252's	NANN		EP	12	/14/2016 	TYLER52 s Date:	
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Type DTI 5.2 W P Previo Relat Site Screet N N N	CR CA30347 Evaluate 1.06 & 4. Wo #: Work erformed: us CAP #: ed CR / LC e ed Assign te ed Assign te SAFETY - PLANT EC (SSC) re ENVIRON that chal regulatio REGULAT Does this	56 CR1041252's 07 C / PI Related Rec ments / Work Relat tions (Nuclear, Indus QUIPMENT - Sys lated to IMENTAL (Defici lenge complianc ns)	NANN recommende cord # Orders ed Record = strial, or Radio stems, Structu ent equipmen ce with envion ICE a human perf	ed change CR # blogical) ? ires, Compo t or conditi mental formance,	EP s to NAPS EP Type C BACC onents ons	12 IPs <b>Work Typ</b> Question Is this CR Program Is the bor BAC-101) Is the bor visible de Does the	/14/2016 Statu Actua Discov Discov S associated with Y/N ic acid wet, glis ric acid deposit e gradation? (ER- boric acid appea	TYLER52 s Date: il Finish Date: ery Date Class l Boric Acid Co tening, moist excessive? (EF exce	JOHN249 INPROG Status Status orrosion Control or dripping? (ER-AP- R-AB-BAC-101)

06/28/2016 01:18 PM

06/28/2016 01:13 PM

		Y, PLANT EQUIP	MENT, Y COMPLIANCE ?		
ENVIRO					acid appear to come from under insulation or r insulation or is the source of leak unknown? 1)
User Informat	ion				
Reported By:		an (Generation - 3	Submitter's Dept:	Training	Changed By: JOHN249 John Costello (Generation - 6)
Email:	jim.crossma	n@dom.com	Supervisor:	PATRI69	Changed 06/29/2016 10:21 AM Date:
Phone: Reported Date:	06/28/2016	01:13 PM		Patty Ignaszewski (Ge	neration - 3)
Trends - Affec	ted Depa	tment			
Site	Affe	cted Dept			Description
Trends - Multij	ple CR Fla	gs			
CR FLag	Descr	iption			
Trends - Multij	ple Statio	PO&C			
POC #	Descr	iption			
Trends - Class Trend Classific			Class Descripti	on	Comments
Work Logs					
Date	Class	5 L	.og Type	Created By	Description
Condition Rep	oort Statu	History			
Date		Status	Modified By		Мето
06/29/2016 1	.0:21 AM	ASSIGNPEND	JOHN249		
06/29/2016 0	9:55 AM	DEPTREV	PATRI69		

# **CR Assignment Details**

JAME272

JAME272

SUPRREV

DRAFT

				<u>N</u>	Iorth Anna
CA3034756		Assignment Type:	DTI	Status:	INPROG
Created Date:	06/29/2016	Due Date:	12/14/2016	Assigned Dept:	EP
Short Descriptio	n: Evaluate Cl	R1041252's recom	mended change	s to NAPS EPIPs	s 1.06 & 4.07
Detailed Assignr	Change EPI transpositio Protective / sectors sho (reference	on error. 2. Change Action Recommend ould be noted for a EPIP-1.06 Step 17	m "GO TO STEP E EPIP-1.06 and lation, to make PAR changed d .f & EPIP-4.07 A	P 12" to "GO TO EPIP-4.07 Attao it clear that pre ue to a change i Attachment 1 St	STEP 21" - apparent chments 3, Report of vious downwind in wind direction ep 3 (RNO)).
Response:	where NAP existed sind Surry's EPI report sugg error was c on EPIP-4.07 I Recommen for a PAR c to EPIP-4.0	ce Revision 11 bec P-1.06 Revision 11 gesting that the ap corrected by issuan The second rec by modifying Attac dation, to make it hanged due to a cl of for evaluation of	2 directed the of ame effective of validated the s propriate transi- ice of EPIP-1.06 commended cha hments 3, Repo- clear that previ- hange in wind d	user to "GO TO 3 in 12/22/2014. C statement in the tion should have Revision 12, wh inge was to enhi- ort of Protective ous downwind s irection. EPIP-1 ere previous rev	STEP 12." This error Comparison with parent condition be been to Step 21. This hich became effective ance EPIP-1.06 and

Attachments 3, but PAR development instructions in EPIP-4.07 Revision 24 (effective date \_\_\_\_\_) address carrying forward or superseding the PAR in-

	effect.	0		
DCAC:	TYLER52	Tyler A Swearinger (Generation - 6)	n Priority:	
Evaluator:	JOHN249	John Costello (Gen - 6)	eration LTCA:	
Supervisor:	ED00001	James E Collins (Generation - 6)	Pre-Staged?:	Y
Manager:	ED00001	James E Collins (Generation - 6)	Manager Review Required?:	N
		No Assignment inform	nation in this section	
CR Informat	tion			
CR# :		CR1041252	enhancements to EPIP-1.06	and 4.07
Long Descri	<u>ption:</u>			
termination. 2 PAR must inclevent AND • 2 shift occurred	2. ÈPIP-1.06 ar lude the follow All downwind s l Attachment 3	nd EPIP-4.07 state; IF PA ing downwind sectors: • , ectors for the new PAR A of both EPIP procedures	typo. It should state go to s R change required due to wi All downwind sectors from p ND • All downwind sectors th for documenting and notifying t make it clear that previous	nd shift, THEN new revious PARs for this nrough which the wind ng the State EOC of a

#### should be noted. CRT Comments:

Site:	NANN
Discovery Date/Time:	06/28/2016 01:13 PM
Significance:	
Parent CRA # :	

Locations and Progr	ammatic Indica	tors			
Location:		Safety Qual Class:	Sei	ismic:	EP Cat A:
		EQ Related:		onent Class:	BDB:
Plant System:		Reg 1.97: App R:	1	PRA: HELB:	B.5.b.:
Local System (Mill only):			3		
Additional Reviews					
Additional Review		Addit	ional Review Person 1:		
Group 1:					
Additional Review		Addit	ional Review Person 2:		
Group 2:					
Additional Review Group 3:		Addit	ional Review Person 3:		
Assignment Extensi	ons				
EXT #	Requester	Reason	Requested Ext Date	Request Date	Extension Status
# of APPR EXT					
Follow-On Assignme	ents				

Asgnmnt Typ	e CR Asgn #	# Site Asgn Dep	t Due Date	Priority	DCAC	Eval	Status
Related CR / LC / PI Site Related Record # CR Type Description Class Discovery Date Status Relationship							
Related Assignments / Work Orders Site Related Record # Work Type Description Class Status Relationship							
Work Log Date Record Class Created By Summary							
User Informati	on		-				
Created By:	JOHN249		Changed By:	TYLER52	2		
	John Costello (	Generation - 6)			Swearing tion - 6)	en	
<b>Created Date:</b>	06/29/2016 10	103 AM	Changed Date:	06/29/2	2016 10:2	24 AM	
CR Assignment Status History							
Date	Status	Modified By	,		Memo		
06/29/2016 10:24	4 AM INPROG	TYLER52					

 06/29/2016 10:24 AM
 INPROG
 TYLER52

 06/29/2016 10:22 AM
 WASSIGN
 MAXADMIN

 06/29/2016 10:01 AM
 DRAFT
 JOHN249

 Report Version 3.1 05/16/2016
 Improvement
 Improvement

 07/14/2016 09:39:16
 Improvement
 Improvement