

Exelon Nuclear

Job Performance Measure

Review Drywell Sump Pumping Calculations

JPM Number: 2014 ILT NRC RO Admin 3

Revision Number: 00

Date: 10/17/2013

Developed By: _____
Instructor Date

Validated By: _____
SME or Instructor Date

Reviewed By: _____
Operations Representative Date

Approved By: _____
Training Department Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE: All steps of this checklist should be performed upon initial validation.
Prior to JPM usage, revalidate JPM using steps 9 and 13 below.

- _____ 1. Task description and number, JPM description and number are identified.
- _____ 2. Knowledge and Abilities (K/A) references are included.
- _____ 3. Performance location specified. (in-plant, control room, simulator, or other)
- _____ 4. Initial setup conditions are identified.
- _____ 5. Initiating cue (and terminating cue if required) are properly identified.
- _____ 6. Task standards identified and verified by SME review.
- _____ 7. Critical steps meet the criteria for critical steps and are identified with an asterisk (*).
- _____ 8. If an alternate path is used, the task standard contains criteria for successful completion.
- _____ 9. Verify the procedure(s) referenced by this JPM reflects the current revision:
 Procedure QCOS 1600-07 Rev: 33
 Procedure _____ Rev: _____
 Procedure _____ Rev: _____
- _____ 10. Verify cues both verbal and visual are free of conflict.
- _____ 11. Verify performance time is accurate
- _____ 12. If the JPM cannot be performed as written with proper responses, then revise the JPM.
- _____ 13. When JPM is initially validated, sign and date JPM cover page. Subsequent validations, sign and date below:

SME / Instructor	Date
SME / Instructor	Date
SME / Instructor	Date

Revision Record (Summary)

Revision 00, Created new for 2014 ILT NRC exam. JPM based on similar errors in IRs 1375928, 1337249, and 1172112.

SETUP INSTRUCTIONS

1. No simulator setup is required.
2. Create the following sheets from QCOS 1600-07

Attachment A

Unit 2

Yesterday / 20726/21052 / 120 / circle a & b / 326

Today

12 mid / 21052/21376 / checkmark / 62 / circle a / 324 / 2 / 650 / checkmark / checkmark / checkmark / first initial / other initials

4 am / 21376 / 21697 / checkmark / 67 / circle b / 321 / 3 / 645 / checkmark / checkmark / checkmark / first initial / other initials

8 am / 21697 / 22020 / checkmark / 120 / circle a & b / 323 / 2 / 644 / checkmark / checkmark / checkmark / first initial / other initials

12 noon / 22020/22643 / checkmark / 120 / circle a & b / 326 / 3 / 649 / checkmark / checkmark / checkmark / first initial / (blank)

Attachment B

Unit 2

Yesterday

12 mid / 44 / circle a / 215

4 am / 52 / circle b / 258

8 am / 88 / circle a & b / 308

12 noon / 88 / circle a & b / 364

4 pm / 88 / circle a & b / 427

8 pm / 88 / circle a & b / 496 / 1.44

Today

12 mid / 23429/23821 / checkmark / 44 / circle a / 572 / checkmark / 76 / 1.68 / 0.24 / checkmark / checkmark / checkmark / first initial / other initials (these initials should match attachment a)

4 am / 23821/24475/ checkmark / 52 / circle b / 654 / checkmark / 82 / 1.96 / 0.28 / checkmark / checkmark / checkmark / first initial / other initials (these initials should match attachment a)

8 am / 24475/25218 / checkmark / 88 / circle a&b / 743 / checkmark / 89 / 2.26 / 0.30 / checkmark / checkmark / checkmark / first initial / other initials (these initials should match attachment a)

12 noon / 25218/26056 / checkmark / 88 / circle a&b / 838 / checkmark / 95 / 2.38 / 0.12 / checkmark / checkmark / checkmark / first initial (these initials should match attachment a) / (blank)

INITIAL CONDITIONS

- Another NSO has just completed running drywell sumps and recorded data.
- The NSO has asked you to verify his entries.
- This JPM is NOT time critical.

INITIATING CUE

- Verify the sump data entries for accuracies & initial the sheets or report if unable to initial the sheets due to errors.

{When candidate acknowledges the cue, provide the candidate sump data sheets and QCOS 1600-07}

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

- * Denotes critical steps.
- Denotes critical elements of a critical step.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section at the bottom of the page. The comment section should be used to document the reason that a step is marked as unsatisfactory and to document unsatisfactory performance relating to management expectations.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

The timeclock starts when the candidate acknowledges the initiating cue.



RO Admin 3 QCOS
1600-07, Rev 033, RI



RO Admin 3 data
sheets.pdf

JPM Start Time: _____

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
<p>Note: Steps can be performed in any order, including reporting all errors at the conclusion of the review.</p>					
<p>Cue: If the candidate reports only one error then, as the NSO, acknowledge the error and ask if you (the NSO) made any other errors.</p>					
<p>*H.1.g.j</p>	<p>●Independently verify calculations are correct and initial on Attachment A.●</p>	<p>Reviews calculations on Attachment A and determines that a calculation error occurred, causing the pumped gallons to be inaccurate which in turn causes the 4 hour change to exceed the action level.</p> <p>[326 gallons recorded when value should have been 623]</p> <p>Reports this to the evaluator.</p>	<p>_____</p>	<p>_____</p>	<p>_____</p>
<p>*H.2.g.l</p>	<p>●Independently verify calculations are correct and initial on Attachment B.●</p>	<p>Reviews calculations on Attachment B and determines that the 24 hr Avg. Rate was calculated incorrectly, resulting in exceeding the action level.</p> <p>[2.38 gpm recorded when value should have been 2.59]</p> <p>Reports this to the evaluator.</p>	<p>_____</p>	<p>_____</p>	<p>_____</p>
<p>Cue: As the NSO, acknowledge the errors.</p>					
<p>EVALUATOR: The candidate should inform you that the task is complete.</p>					

JPM Stop Time: _____



JPM SUMMARY

Operator's Name: _____ **Job Title:** EO RO SRO FS
 STA/IA SRO Cert

JPM Title: Review Drywell Sump Pumping Calculations
JPM Number: 2014 ILT NRC RO Admin 3 Revision Number: 00

Task Number and Title:

SR-1600-P05 Given an operating reactor plant, pump the drywell sumps and determine if drywell leakage is within TS requirements in accordance with QCOS 1600-7 (calculate average flowrate/volume pumped).

K/A Number and Importance: **K/A:** 2.2.12 **Rating:** 3.7

Knowledge of surveillance procedures

Suggested Testing Environment: Simulator

Alternate Path: Yes No SRO Only: Yes No Time Critical: Yes No

Reference(s): QCOS 1600-07, Rev. 33, REACTOR COOLANT LEAKAGE IN THE DRYWELL, DRYWELL FLOOR DRAIN AND EQUIPMENT DRAIN SUMPS AVAILABLE

Actual Testing Environment: Simulator Control Room In-Plant Other

Testing Method: Simulate Perform

Estimated Time to Complete: 12 minutes **Actual Time Used:** _____ minutes

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? Yes No

The operator's performance was evaluated against standards contained within this JPM and has been determined to be: Satisfactory Unsatisfactory

Comments: _____

Evaluator's Name: _____ (Print)

Evaluator's Signature: _____ **Date:** _____

[If this page is an odd numbered page, a blank page is automatically generated after this page to keep the student cue sheet separate from this page]

INITIAL CONDITIONS

- Another NSO has just completed running drywell sumps and recorded data.
- The NSO has asked you to verify his entries.
- This JPM is NOT time critical.

INITIATING CUE

- Verify the sump data entries for accuracies & initial the sheets or report if unable to initial the sheets due to errors.