Joseph Austin

From:Bonser, BrianCSent:Tuesday, June 09, 2009 3:46 PMTo:Austin, Joseph; Loo, WadeCc:Hamilton, Ruben; Musser, RandySubject:RE: Cooling Tower Blow down Well Results for 5/14 (state split sample day)

Joe,

What are the units on these measurements? I don't want to assume anything.

Brian R. Bonser Chief, Plant Support Branch 1

Division of Reactor Safety, Region II U.S. Nuclear Regulatory Commission 404.562.4653

From: Austin, Joseph OY
Sent: Tuesday, June 09, 2009 1:31 PM
To: Loo, Wade
Cc: Hamilton, Ruben; Bonser, Brian; Musser, Randy
Subject: FW: Cooling Tower Blow down Well Results for 5/14 (state split sample day)

Wade,

Below is the licensee's tritium sample analysis for your comaprison with ours, once we receive them.

Please let me know if you have any questions. Thanks Joe

From: Austin, Joe [mallto:joe.austin@pgnmail.com] Sent: Tuesday, June 09, 2009 1:21 PM To: Austin, Joseph Subject: FW: Cooling Tower Blow down Well Results for 5/14 (state split sample day)

From: Robinson, Johnny (Mike) Sent: Tuesday, June 09, 2009 1:19 PM To: Austin, Joe; Lessard, Patrick Subject: FW: Cooling Tower Blow down Well Results for 5/14 (state split sample day)

Joe, Patrick

Here are the sample analysis from the HNP split samples that was performed with the NRC and the State of NC from May 14, 2009. I will be interested in comparisons with the NRC and how they look. The hard to detects will becoming later.

BDL-MW1	BDL-MW2	BDL-MW3	BDL-MW5	BDL-MW6	BDL-MW7
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3/4/2009	372	373	1060	1260	1450	<234
3/30/2009	371					
4/8/2009		456	1010	1430	1220	294
5/14/2009	<232	513	994	1100	1580	Unable to sample

Mike Robinson E & C Superintendent Harris Nuclear Plant V-NET 751-2245 Phone (919) 362-2245

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Tritum File

Combined Outfall Cistern #1 results during TLHS-A release on 4/10/09.

The TLHS-A had 20 Ci of tritium and was released from 1140 to at a rate of 26 gpm. Cistern #1 was evaluated every two hours for changes in the water level, as well as, tritium concentration.

Combined Outfall tritium results 4/13/09 2230 = 610,010 pCi/l

Results	5
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Date/Time	Tritium (pCi/L)	Error +/-	Observations
3/30/09	N/A		Water was pumped out and the bottom of
			the box was sealed. No Radwaste releases
			from 3/30-4/13/09
4/10/09 1000 (pre	5745	+/- 1303	Water level about ¼ inch below the lip of
release)			the sampler standpipe. Water was very
	_		clear and still
4/13/09 1135 (pre	N/A		Water level about ¼ inch below the lip of
release)			the sampler standpipe. No indication of
			water entering or exiting the standpipe
4/13/09 1230 (during	N/A	j	Unchanged
release) Sample was			
Collected, ???????			
4/13/09 1435	5800	+/- 1250	Unchanged
4/13/09 1630	6520	+/- 1370	Unchanged
4/13/09 1830	6870	+/- 1300	Unchanged
4/13/09 2030	5700	+/- 1350	Unchanged
4/13/09 2230	5487	+/- 1288	Unchanged
4/14/09 0540	7410	+/- 1342	Unchanged
4/14/09 1109	85,870	+/- 3195	Steady Flow From Standpipe to Cistern.
			Cistern Level approximately ¼ "above
·			standpipe
4/14/09 1300	ŇA		Water level was level the lip of the
			sampler standpipe. No indication of water
		1	entering or exiting the standpipe also
			observed @ 12:00 by Ryan Welch
4/14/09 1509	NA		Same as 13:00 hours
4/14/09 1710	NA		Same as 13:00 hours
	· · · · · · · · · · · · · · · · · · ·		

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ATTACHMENT 4 Sheet 1 of 2 Facility Change Traveler

FCT Number 103

Authorization Section

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Description - (Attachment Yes/No)

The Cooling Tower Blowdown (CTBD) system has air release points (inside air release concrete manholes) established at high points along the 48" diameter CTBD piping. Air release manhole ARS-1 has been allowing unmonitored CTBD effluent to be released into the soil adjacent to the manhole when the effluent drains out of the manhole. This FCT-103 installs a hydraulic cement plug in the 2" diameter cast iron drain line located in the floor of ARS-1. See dwg 7-G-2833 for typical details of these air release system manholes.

Inclusion Test - See attached form

Cautions / Limitations and Required Engineering Reviews - (Attachment Yes/No) No. Action

1	100 FR 50.59 Screen 32810	5 3300	22 3/9/09
		···	
L		·····	
Supp	orting Basis - (Attachment Yes/No)		
No.	Basis		
1	Engineering Evaluation Billy	Pridger	n
		- <u></u>	
Engir	Attach additional instructions	Idogumont	ation when needed
	reening/work Group Reviews - Attach auditional instructions	s / uucument	ation when needed
No	Signature		Data
140.		105/10	
	None required withingh	/Y	3/30/04
L			
	Requested by (Project Manager) Facility Cha	ange Coordir	nator Concurrence

Jin Tatum / Jin Lat W. O. Pridgen 3/30/09 3, U,

Facility Manager Signature (Approval for Implementation) Signature indicates that physical work can proceed and changes may be posted as indicated in the Affected Document Section.

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ATTACHMENT 4 Sheet 2 of 2 FACILITY CHANGE TRAVELER

FCT Number 103

Affected Document Section

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Affected Document(s)	Revise Y/N	Referenced WO Task
7-G-2833 (Dwg Coord G8)	Y	1525599 + 153/486

Closeout Section

Work Performed WO, Contract WA or Procedure	Brief Description of Work
Wo 1525599-01	Installed Hyd- Coment 73929010.
W/0 15314 86-01	Installed Hyd-Cement 73929010.
	/

Jim 191 tum

Facility Change Coordinator Signature Date Signature indicates that physical changes are complete and the status of this FCT can be changed to "Active." Documentation revision (if required) can be completed.

Facility Manager Signature (Approval of Completed Change)DateSignature indicates that all physical changes and drawing revisions are complete. Status of theFCT can be changed to "Closed."

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ATTACHMENT 5 Sheet 1 of 1 INCLUSION RULES

FCT Number 103

To continue with the Facility Change Process, all statements below must be true.

	True	False
This change does not impact Safety-Related Systems including potential interactions (seismic/proximity considerations or system interface considerations).	X	
There will be no direct impact to Augmented Quality Systems such as Seismically designed, Radwaste, Radiation Control, Fire Protection/Detection/Barrier, Station Blackout or any support systems for Safety-Related systems.	\times	
There will be no impact to environmental qualification (EQ) of components.	\times	
There will be no impact to Power-Producing Systems, Structures or Components.	\propto	
There will be no impact to facilities directly involved in housing, controlling or supporting systems involved in power production or distribution.	\boldsymbol{X}	
Changes do not impact existing Nuclear Security related Systems, Structures or Components (eg. Intrusion Detection System, Protected Area, Defensive Strategy Fences, Vital Area Barrier, Configuration of the Vehicle Barrier System).	χ	
These changes do not require chemical or explosive gas storage or movement.	\times	
Changes do not impact plant digital SSCs determined to be "critical digital assets" (that is, classified as either "continuity of power" or "nuclear significant") in accordance with the requirements of EGR-NGGC-0157 Section 9.1	X	
There will be no change to site drainage, temporary or permanent, that can affect flooding analysis.	X	
There will be no impact to systems or activities covered by the QA Program Manual.	X	
The change does not have an adverse impact on ALARA.		

IF all statements are TRUE:

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Refer to the Facility Change Process Screening Matrix, Attachment 6, to determine cautions / limitations and the required reviews for this change.

IF any statement is unclear:

Process an ECR or make a similar request (i.e. email) for engineering clarification.

IF any statement is FALSE:

This process cannot be used. As an alternative, an ECR may be processed to request engineering support. Refer to EGR-NGGC-0005 "Engineering Change".

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4 of 5 FCT 103





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1. Work Order Number: 1531486	TCF Rev No.	0 Page 1 of 2	
2. System Name and Number: Cooling Tower Blowdown / 4	035		- 1
3. Extended Troubleshooting Yes No X (if Yes, the required	ments of Section 5.3.2 must be	followed)	
4. Affected Components: The four air release valves (ARS 2	2, 3, 4, 5) will be covered du	ring a Rad waste release	
(maximum flow) to determine if they are allowing effluent to lea	ak into the cisterns.		
5. Description: A hydrology study near the cooling tower blow	down line has indicated the	at plant effluent is entering th	e
backfill space along the buried line (AR 305194 and 328551):	This is possible from either	a leak in the buried line itse	lf or
from one of the air relief valves leaking by, allowing effluent to	pass through the cistern in	to the surrounding backfill.	This
troubleshooting will verify whether or not the air release valves	are functioning or have fai	led to prevent blowdown effli	uent
from entering the cistern.			
6. Special Plant or Equipment Conditions: This troubleshop	ting plan must be performe	d during a rad waste release	
when the CTBD line is at maximum flow.			
7. Troubleshooting Approach: Each of the four air release v	alves along the cooling low	er blowdown will have a plas	tic
bag placed over it. This bag, which will be non-permanent, wi	Il aid in determining if the re	spective valve is leaking or	not.
The rad waste release lasts approximately 12 hours. During the	his time if one of the bags i	s displaced or; once removed	d, is
wet on the inside, that particular valve will be shown to be non	-functioning. The air releas	e valves function as high poi	nt
vents in the line, allowing any accumulation of air to be release	e and prevent any potential	flow restrictions. The line is	
open on the weir end and is also open at the sample tube pen	etration at combined outfal	sampling station. These tw	ò
opening prevent any vacuum from forming in the line.			
8. Boundaries: The troubleshooting boundaries are the four a	ir release valves along coo	ling tower blowdown line. N	one
of the air release valves are beyond drop structure 'A'.			
9. Expected Plant Response: The bags over the air release	valves are secured in such	a way that they are not	
'suffocating' the valve and effect on their performance is not e	xpected. During the trouble	shooting the flow through th	e.
blowdown line will be at its maximum and if one of the valves i	s failed, it will be indicated	during this time.	
10. Worst Potential Consequence of Activity: All four air rel	ease valves show to be fail	ed and leak effluent into the	· 1
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