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OUTHERN NUCLEAR		
		PAGE I UF I
RETRIEVAL CODE SHEET		
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******	*************	******
DOCUMENT NUMBER:	NMP-EN-002	
DATA PACKAGE/FORM NUMBER:	Figure 1	
		<u></u>
MPL NUMBER:	N/A	
RTYPE:	GG3.100	
	(DOCUMENT CONTROL USE ON	ILY)
REFERENCE DOCUMENTS:		
KEYWORDS:	10 CFR 50.75 Leak/Spill Decommiss	ioning Record
•		
TOTAL SHEETS:		
DOCUMENT RETRIEVAL DATE:	MAY 2008	
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	night m Cal	
. RE	VIEWED BY: //. Cord	mon
	DATE: 5/8/08	
REMARKS: _Actions for Potential Ground	water Contamination Events	
ADM-0020 REV 2	n	100-007-002-09
	. 4	100-004-002-03

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	Sc	outhern Nuclear Operatin	g Comp	any		
SOUTHERN A Ma COMPANY Exercit of Service Frederic	Nuclear anagement Procedure	Actions for Potential Contamination	Groundw Events	vater	NMP-EN-002 Version 1.0 Page 9 of 9	
10	CFR 50.75(g)	Leak/Spill Decommissioni	ng Recor	d	(R-type	GG3.100)
PART 1 - Locatio	N/Source					
Event Date	Plant Name:	Individual Contact N	ame:	Check	one: Leak?	Spill?
5/1/08	Hatch	Violet M. Coler	nan			x T
Volume (gallons):	Loc	ation of spill/leak		Sou	ce of spill/lea	k
8200	1Y22-N008 dis	BA collection tank next to charge structure		Subsur	face groundw	ater
Duration of leak/sp	ill: Approximat	ely 24 hours.	•			
Gamma Activity (u	Ci/cc)	Tritium Activity (pCi/L)		Total	Area Impacte	ed (ft2)
0 uCi/cc (month composite)	nly 4.67E4	pCi/L			250 ft2	
PART 2 - Event D	escription					
Outside of Protecte	ed Area?	Yes 🗌 No 🗌 Unknow	wn			
If unknown, what	actions neede	d to determine?				
· · · · · · · · · · · · · · · · · · ·	<u></u>	Description of event	/issue			
through a gap betw the pump down allo	veen the manw owing the tank	ay and extension piece. T to overflow.	he amou	nt of dirt a	and gravel eve	entually shut
		Actions Taken to Stop S	oill or Le	ak		
A temporary pump corrective action co to operable condition	was set up to p build be taken. on the next day	oump the liquid tank conter The dirt and gravel were re	nts into the moved f	ne dischar rom the ta	ge structure u ank and the pu	intil ump restored
Ac	ctions Taken t	o Clean-up Spill or Leak	and Lon	g Term M	onitoring	·····
Water soaked int	o the ground a	round the tank area. Some	e of the w	vater ran o	lown a gulley	to the river.
PART 3 – Commu	nications					
Condition Report N	lumber:	CR 2008105067				
State Agency Noti (Describe what age when and who)	fication: ency,	State of Ga. EPD, Jame notification)	es Harder	man 13:15	5 CST 5/2/08	(informal
NRC Notification (v	when and who)	Site Resident – Phil Neit	aum 073	30 EST 5/2	2/08	
		Figure 1				

OUTHERN NUCLEAR	
ORM TITLE:	FAGE I OF I
RETRIEVAL CODE SHEET	
***************************************	*
DOCUMENT NUMBER: NMP-EN-	- 002
DATA PACKAGE/FORM NUMBER: N/A	*
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BTYPE GG3 10	
(DOCUMENT C	CONTROL USE ONLY)
REFERENCE DOCUMENTS:	*
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KEYWORDS: Actions to	r Potential
Grandwate	er Contamination Grents:
TOTAL SHEETS: 2	*
DOCUMENT RETRIEVAL DATE: 3/19/08	*

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D	· I lim all a
REVIEWED BY: <u>U</u>	olet, 11, Coleman,
DATE:	_6/30/08
REMARKS:	
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ADM-0020 REV. 2

21DC-DCX-002-0S

•	B. R #	Sout	nem Nuclear Operating	Lompa	ny		
SOUTHERN A	Nucle Manage Procec	ear ment lure	Actions for Potential C Contamination I	Broundwa Events	iter	NMP-E Versic Page	EN-002 on 1.0 9 of 9
	10 CFR :	50.75(g) Le	ak/Spill Decommissionin	g Record		(R-type	GG3.100)
PART 1 - Loca	ation/Sou	rce					
Event Date	Plar	nt Name:	Individual Contact Na	ame:	Check one	: Leak?	Spill?
3/19/08	Hat	ch	Violet M. Colem	an	X		
Volume (gallor	ns):	Locat	ion of spill/leak		Source	of spill/lea	k
2450	l lc	PB2-AU ar	nd PB2-AT Pullboxes /SE of U2 CST moat.	Gro	undwater ar	id unknow	n source
Duration of leal	k/spill: Un	known					
Gamma Activit	y (uCi/cc)	1	ritium Activity (pCi/L)		Total Are	a Impacte	ed (ft2)
PB2-AU 6.1 PB2-AT 6.8	183E-8 842E-8	PB2-AU	9.23E5 PB2-AT 8.68E5			60 ft2	
Outside of Prot	tected Area	a? 🗌 Ye ns needed	to determine?	n stigation	n progress.		
Tritium concent AT east/SE of t	trations, in the U2 Co	excess of ndensate S	20,000 pCi/L have been torage Tank. Tritium leve	discovere of for PB2	ed in pullbox -AU is 9.23E	es PB2-Al 5 pCi/L, F	U and PB2- PB2-AT is
Tritium concen AT east/SE of 1 8.68E5 pCi/L. than expected	trations, in the U2 Co Three othe tritium leve	excess of ndensate S er pullboxes els (PB2-AC	20,000 pCi/L have been torage Tank. Tritium leve s in line carrying these ca Q 1.56E4pCi/L; PB2-AR (discovere el for PB2 ables wer 3.16E3pC	ed in pullbox -AU is 9.23E e also samp E/L; PB2-AS	es PB2-Al 5 pCi/L, F ed and ha 2.93E4pC	U and PB2- PB2-AT is ad higher Ci/L).
Tritium concen AT east/SE of 1 8.68E5 pCi/L. than expected	trations, in the U2 Co Three othe tritium leve	excess of ndensate S er pullboxes els (PB2-AC	20,000 pCi/L have been torage Tank. Tritium leve s in line carrying these ca 2 1.56E4pCi/L; PB2-AR t ctions Taken to Stop Sp	discovere el for PB2 ables wer 3.16E3pC	ed in pullbox -AU is 9.23E e also samp ti/L; PB2-AS	es PB2-Al 5 pCi/L, F ed and ha 2.93E4pC	U and PB2- PB2-AT is ad higher Ci/L).
Tritium concen AT east/SE of 1 8.68E5 pCi/L. than expected Pumped down PB2-AU and in which then ente	trations, in the U2 Co Three othe tritium leve the pullbo to the nex er the turb	excess of indensate S er pullboxes els (PB2-AC Ac exes but no t pullbox Pf ine building	20,000 pCi/L have been storage Tank. Tritium leve s in line carrying these ca 2 1.56E4pCi/L; PB2-AR to stions Taken to Stop Sp active leakage into the p 32-AT. These are also co b. Subsequent pullbox sa	discovere el for PB2 ables wer 3.16E3pC <u>elll or Les</u> <u>ell can be</u> connected ample res	ed in pullbox -AU is 9.23E e also samp i/L; PB2-AS ik seen. Cable to PB2-AS, ults for tritiur	es PB2-Al 5 pCi/L, F ed and ha 2.93E4pC e lines run PB2-AR, n have tre	U and PB2- PB2-AT is ad higher Di/L). I through and PB2-A ended down
Tritium concen AT east/SE of t 8.68E5 pCi/L. than expected Pumped down PB2-AU and in which then ente	trations, in the U2 Co Three othe tritium leve the pullbo to the nex er the turb Actions	excess of indensate S er pullboxed els (PB2-AC Ac oxes but no t pullbox PE ine building Taken to (20,000 pCi/L have been torage Tank. Tritium levels in line carrying these ca 1.56E4pCi/L; PB2-AR to ctions Taken to Stop Sp active leakage into the p 32-AT. These are also co b. Subsequent pullbox sa	discovere el for PB2 ables wer 3.16E3pC <u>elli or Lea</u> <u>elli or Lea</u> <u>elli can be</u> connected ample res	ed in pullbox -AU is 9.23E e also samp ci/L; PB2-AS ik seen. Cable I to PB2-AS, ults for tritiur Term Moni	es PB2-Al 5 pCi/L, F ed and ha 2.93E4p0 e lines run PB2-AR, n have tre toring	U and PB2- PB2-AT is ad higher Di/L). I through and PB2-A ended down
Tritium concen AT east/SE of 1 8.68E5 pCi/L. than expected Pumped down PB2-AU and in which then enter Water in the through the ra	trations, in the U2 Con Three othe tritium leve the pullbo to the nex er the turb Actions pullboxes idwaste sy	excess of indensate S er pullboxes els (PB2-AC Ac oxes but no t pullbox PE ine building Taken to (has been p stem. Mon	20,000 pCi/L have been storage Tank. Tritium level s in line carrying these ca 2 1.56E4pCi/L; PB2-AR (ctions Taken to Stop Sp active leakage into the p 32-AT. These are also c b. Subsequent pullbox sa clean-up Spill or Leak a sumped into a tank and di itoring of these pullboxes of leakage.	discovere el for PB2 ables wer 3.16E3pC <u>ables wer</u> 3.16E3pC <u>ables wer</u> 3.16E3pC <u>ables wer</u> ables wer ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ables ab	ed in pullbox -AU is 9.23E e also samp E/L; PB2-AS Ik seen. Cable to PB2-AS, ults for tritiur Term Moni f in a decon es in order to	es PB2-AU 5 pCi/L, F ed and ha 2.93E4pC e lines run PB2-AR, n have tre toring sink to be determin	U and PB2- PB2-AT is ad higher Di/L). I through and PB2-A ended down
Tritium concen AT east/SE of 1 8.68E5 pCi/L. than expected Pumped down PB2-AU and in which then ente Water in the through the ra	trations, in the U2 Co Three othe tritium leve the pullbo to the nex er the turb Actions pullboxes adwaste sy	excess of indensate S er pullboxes els (PB2-AC Ac oxes but no t pullbox PE ine building Taken to (has been p stem. Mon	20,000 pCi/L have been torage Tank. Tritium levels in line carrying these ca 2 1.56E4pCi/L; PB2-AR to ctions Taken to Stop Sp active leakage into the p 32-AT. These are also co bubsequent pullbox sa Clean-up Spill or Leak a pumped into a tank and di itoring of these pullboxes of leakage.	discovere el for PB2 ables wer 3.16E3pC <u>ables ver</u> 3.16E3pC <u>ables ver</u> 3.16E3pC <u>ables ver</u> 3.16E3pC <u>ables ver</u> 3.16E3pC	ed in pullbox -AU is 9.23E e also samp E/L; PB2-AS ik seen. Cable I to PB2-AS, ults for tritiur Term Moni of in a decon es in order to	es PB2-Al 5 pCi/L, F ed and ha 2.93E4pC e lines run PB2-AR, n have tre toring sink to be determin	U and PB2- PB2-AT is ad higher Di/L). I through and PB2-A ended down
Tritium concen AT east/SE of 1 8.68E5 pCi/L. than expected Pumped down PB2-AU and in which then entr Water in the through the ra PART 3 – Corr Condition Repo	trations, in the U2 Con Three othe tritium leve the pullbo to the nex er the turb Actions pullboxes adwaste sy	excess of indensate S er pullboxes els (PB2-AC Ac oxes but no t pullbox PE ine building Taken to (has been p stem. Mon ons	20,000 pCi/L have been storage Tank. Tritium level is in line carrying these ca 2 1.56E4pCi/L; PB2-AR to itions Taken to Stop Sp active leakage into the p 32-AT. These are also co b. Subsequent pullbox sa Clean-up Spill or Leak a pumped into a tank and di itoring of these pullboxes of leakage.	discovere el for PB2 ables wer 3.16E3pC <u>ill or Lea</u> it can be connected imple res and Long isposed c	ed in pullbox -AU is 9.23E e also samp E/L; PB2-AS ik seen. Cable to PB2-AS, ults for tritiur Term Moni f in a decon es in order to	es PB2-Al 5 pCi/L, F ed and ha 2.93E4pC e lines run PB2-AR, n have tre toring sink to be determin	U and PB2- PB2-AT is ad higher Di/L). through and PB2-A inded down processed the source
Tritium concen AT east/SE of 1 8.68E5 pCi/L. than expected Pumped down PB2-AU and in which then entre Water in the through the ra PART 3 – Corr Condition Repor State Agency I (Describe what when and who)	trations, in the U2 Con Three othe tritium leve the pullbo to the nex er the turbi Actions pullboxes dwaste sy munication totification t agency,	excess of indensate S er pullboxes els (PB2-AC Ac oxes but no t pullbox PE ine building Taken to (has been p stem. Mon ons r:	20,000 pCi/L have been storage Tank. Tritium level is in line carrying these ca 2 1.56E4pCi/L; PB2-AR to ctions Taken to Stop Sp active leakage into the p 32-AT. These are also co b. Subsequent pullbox sa Clean-up Spill or Leak a pumped into a tank and di itoring of these pullboxes of leakage. CR 2008103772 State of Ga. EPD, James notification) 1500 CDT	discovere el for PB2 ables wer 3.16E3pC <u>ill or Lea</u> it can be connected imple res ind Long isposed c s continue	ed in pullbox -AU is 9.23E e also samp E/L; PB2-AS ik seen. Cable to PB2-AS, ults for tritiur Term Moni f in a decon es in order to an (informal	es PB2-Al 5 pCi/L, F ed and ha 2.93E4pC e lines run PB2-AR, n have tre toring sink to be determin	U and PB2- PB2-AT is ad higher Di/L). through and PB2-A and PB2-A and ed down processed the source

OUTHERN NUCLEAR LANT E.I. HATCH	PAGE 1 OF 1
ORM TITLE: BETRIEVAL CODE SHEET	
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DOCUMENT NUMBER:NMP	2-EN-002-0
DATA PACKAGE/FORM NUMBER: N/A	
RTYPE: GG	3.100
(DOCI	JMENT CONTROL USE ONLY)
REFERENCE DOCUMENTS:	
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KEYWORDS: Action	s for Potential Groundwater
Contar	nination Events
TOTAL SHEETS: 3	
DOCUMENT RETRIEVAL DATE: 12/26	107

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	UNACCEPTABLE
REVIEWED B	. Mist m. Coleman.
	E 2/7/08
EMARKS:	
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ADM-0020 REV. 2	21DC-DCX-002-05

-		Sout	hern Nuclear Operating	Com	bany		
COMPANY	Nucle Aanagei Proced	ar ment jure	Actions for Potential C Contamination I	Bround Events	water	NMP-E Versi Page	EN-002 on 1.0 9 of 9
1	0 CFR 5	50.75(g) Le	ak/Spill Decommissionin	g Reco	ord	(R-type	GG3.100)
PART 1 - Locati	on/Sour	ce					
Event Date	Plan	t Name:	Individual Contact Na	me:	Check of	one: Leak?	Spill?
12_/_26_/2007_	Hato	sh 👘 🥾	Violet M. Colem	an		X	
Volume (gallons)	· · · ·	Locati	on of spill/leak		Sour	ce of snill/lea	.i
5700	<u>'</u>	Disisa			Cubour		
5700		Fiping	101 122NUU6A		Subsur		
Gamma Activity /	pini. uriki uCi/co)		ritium Activity (oCi/L)		Total	Area Impact	ed (ft2)
0		2.49E	4 pCi/L (conc. Of weekly		5000ft2	Area impacti	
PART 2 - Event	Descrin	tion		I			
Outside of Protec	ted Area	i? 🛛 Ye	s 🗌 No 🗌 Unknow	'n			
lf unknown, wha	t action	s needed f	to determine?		•		
Original CR: Dur	ing visua	al inspection	Description of event/	issue erman	ent 1Y22N0	08A outfall, i	t was
Original CR: Dur discovered that the subsurface drains surrounding grou is connected toge environment rathe the tank, howeve concentration for issues, Environm Update: Actual w volume due to the	ing visua ne piping age wate nd. It is l ether eve er than e r it is par this outf ental Aff veekly tri e event v	al inspection between the pelieved the ery 20 ft.). It entering the tially routed all is appro- airs will not tium compo- was 5700 g	Description of event/ n of the newly installed p he transition piece and th own the trench and exit n at the rain showers 12/25 t is estimated that approx collection tank. Current d on the ground until rep ximately 1.8E4 pCi/L. Du tify the State EPD with an osite concentration for th allons.	issue ermanine colle ear the cause imately y the si airs car airs car a to the n inform is even	ent 1Y22N0 ector tank ha e discharge y 3600 gallo ubsurface v n be made. e sensitivity nal/courtesy it was 2.49E	08A outfall, i ad separated structure on ration of the p ons had been vater is being The average of groundwa y call (NMP-E E4pCi/L. Esti	t was causing the biping (pipin lost to the captured ir tritium ater tritium EN-002). mated
Original CR: Dur discovered that the subsurface drain surrounding grou is connected toge environment rathe the tank, howeve concentration for issues, Environm Update: Actual w volume due to the	ing visua ne piping age wate nd. It is t ether eve er than e r it is par this outf ental Aff veekly tri e event v	al inspection between the per to leak do believed the ery 20 ft.). If entering the rtially routed all is appro- airs will not tium compo- was 5700 g.	Description of event/ n of the newly installed p he transition piece and th own the trench and exit n at the rain showers 12/25 t is estimated that approx collection tank. Currentl d on the ground until rep ximately 1.8E4 pCi/L. Du tify the State EPD with an osite concentration for th allons. tions Taken to Stop Sp	issue ermanne colle ear the cause kimately y the si airs car is to the n inform s even	ent 1Y22N0 ector tank ha e discharge ed the separ y 3600 galk ubsurface v n be made. e sensitivity nal/courtesy it was 2.498	08A outfall, i ad separated structure on ration of the p ons had been vater is being The average of groundwa y call (NMP-E E4pCi/L. Esti	t was causing the piping (pipin lost to the captured ir tritium ater tritium EN-002). mated
Original CR: Dur discovered that the subsurface draina surrounding grou is connected toge environment rathe the tank, howeve concentration for issues, Environm Update: Actual w volume due to the Reconfigured pipi for proper dischar	ing visua ne piping age wate nd. It is l ether eve er than e r it is par this outf ental Aff veekly tri e event v ing (use	al inspection between the rector leak do believed the ery 20 ft.). If entering the rtially routed all is appro- airs will not tium compo- was 5700 g Ac d piping from the discharg	Description of event/ n of the newly installed p he transition piece and th own the trench and exit m at the rain showers 12/25 t is estimated that approx collection tank. Currentl d on the ground until rep ximately 1.8E4 pCi/L. Du tify the State EPD with an osite concentration for th allons. tions Taken to Stop Sp m the temporary system ge structure.	issue ermanin e colle ear the cause imately y the si airs can be to the n inform is even ill or L	ent 1Y22N0 ector tank ha e discharge ed the separ y 3600 gallo ubsurface v n be made. e sensitivity nal/courtesy it was 2.49E .eak te outfall flo	08A outfall, i ad separated structure on ration of the p ons had been vater is being The average of groundwa call (NMP-E E4pCi/L. Esti	t was causing the piping (pipin l lost to the g captured in tritium ater tritium EN-002). mated
Original CR: Dur discovered that the subsurface drains surrounding grou is connected toge environment rathe the tank, howeve concentration for issues, Environm Update: Actual we volume due to the Reconfigured pipi for proper dischart	ing visua age wate age wate and. It is h ether eve er than e r it is par this outf ental Aff veekly tri e event v ing (use ge into t	al inspection between the per to leak do believed the ery 20 ft.). If entering the rtially routed all is appro- airs will not tium compo- was 5700 g. Ac d piping from the dischard Taken to C	Description of event/ n of the newly installed p he transition piece and th own the trench and exit n at the rain showers 12/25 t is estimated that approx collection tank. Currentl d on the ground until rep ximately 1.8E4 pCi/L. Du- tify the State EPD with an osite concentration for th allons. tions Taken to Stop Sp m the temporary system ge structure.	issue ermanne ear the cause cause simately y the si airs car e to the n inform is even ill or L to rou	ent 1Y22N0 ector tank ha e discharge ed the separ y 3600 galld ubsurface v n be made. e sensitivity nal/courtesy at was 2.498 .eak te outfall flo	08A outfall, i ad separated structure on ration of the p ons had been vater is being The average of groundwa y call (NMP-E E4pCi/L. Esti	t was causing the piping (pipin lost to the captured in tritium ater tritium EN-002). mated
Original CR: Dur discovered that the subsurface draina surrounding grou is connected toge environment rathe the tank, howeve concentration for issues, Environm Update: Actual w volume due to the Reconfigured pipi for proper dischart	ing visua age wate nd. It is the ether even er than er this outf ental Aff veekly tri eekly tri eekly tri ge into the rge into the Actions	al inspection between the r to leak do believed the ery 20 ft.). If entering the rtially routed all is appro- airs will not tium compo- was 5700 g Ac d piping from the dischard Taken to C o the ground	Description of event/ n of the newly installed p he transition piece and th own the trench and exit m at the rain showers 12/25 t is estimated that approx collection tank. Currentl d on the ground until rep ximately 1.8E4 pCi/L. Du- tify the State EPD with an osite concentration for the allons. tions Taken to Stop Sp m the temporary system ge structure.	issue ermanne ear the cause simately y the si airs car e to the n inform s even ill or L to rou nd Lou	ent 1Y22N0 ector tank ha e discharge ed the separ y 3600 gallo ubsurface v n be made. e sensitivity nal/courtesy it was 2.49E .eak te outfall flo ng Term Mo was soaked	08A outfall, i ad separated structure on ration of the p ons had been vater is being The average of groundwa call (NMP-E E4pCi/L. Esti ow to the colle onltoring	t was causing the biping (pipin lost to the g captured in tritium ater tritium EN-002). imated ection tank
Original CR: Dur discovered that the subsurface draina surrounding grou is connected toge environment rathe the tank, howeve concentration for issues, Environm Update: Actual w volume due to the Reconfigured pipe for proper dischart Spill exit	ing visua a piping age wate and. It is h ether eve er than er this outf ental Aff veekly tri eekly tri eevent v ing (used rge into t	al inspection between the pelieved that ery 20 ft.). If entering the tially routed all is appro- airs will not tium compo- was 5700 g Ac d piping from the discharg Taken to C o the ground	Description of event/ n of the newly installed p he transition piece and th own the trench and exit m at the rain showers 12/25 t is estimated that approxi- collection tank. Currentl d on the ground until rep ximately 1.8E4 pCi/L. Du tify the State EPD with an osite concentration for th allons. tions Taken to Stop Sp m the temporary system ge structure.	issue ermanin e colle ear the cause is cause is airs can be to this inform is even ill or L to rou nd Lou l) and v	ent 1Y22N0 ector tank ha e discharge ed the separ y 3600 gallo ubsurface v n be made. e sensitivity nal/courtesy nal/courtesy t was 2.49E .eak te outfall flo	08A outfall, i ad separated structure on ration of the p ons had been vater is being The average of groundwa call (NMP-E E4pCi/L. Esti ow to the colk onltoring	t was causing the piping (pipin I lost to the captured in tritium ater tritium EN-002). Imated

4	Soi	uthern Nuclear Operating Company	
SOUTHERN ALA	Nuclear Management Procedure	Actions for Potential Groundwater Contamination Events	NMP-EN-002 Version 1.0 Page 10 of 9
State Agency (Describe what when and who	Notification: t agency,)	State EPD Jim Hardeman (12/26, by phone), (12/27, s Updated Jim Hardeman (1/11/08 by phone	spoke with him in person)
NRC Notification	on (when and who)	Site Resident 12/27/07 updated site resid	ent in person 1/11/08

Figure 1

SOUTHERN NUCLEAR PLANT E.I. HATCH		PAGE 1 OF 1
FORM TITLE: RETRIEVAL CODE SHEET		
	· · · · · · · · · · · · · · · · · · ·	
*	*******	***********************
* DOCUMENT NUMBER:	NMP-EN-002	*
DATA PACKAGE/FORM NUMBER:	Figure 1	*
* MPL NUMBER:	N/A	*
• • RTYPE:		•
*	(DOCUMENT CONTROL USE	ONLY)
* REFERENCE DOCUMENTS:	NMP-EN-002	*
*		· · · · · · · · · · · · · · · · · · ·
*	·	*
* KEYWORDS:	10CFR50.75(g)	*
*	Leak/Spill Decommissioning Recor	rd *
• • TOTAL SHEETS:	11	*
* DOCUMENT BETRIEVAL DATE:	4/04/2007	*
*		*
RE	VIEWED BY: Durate C	1. Hostetter
	DATE: 10-1	5-07
REMARKS: This data is required to be sto	red for the life of the plant by 10CFR	5075(g) and
for Life of Plant+99 by ANI.	·	
Description: 2007 - Large tritium spike in	NW-10 well next to U-2 CST.	

ADM-0020 REV. 2

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21DC-DCX-002-0S

		South	ern Nuclear Operating	Comp	any		
SOUTHERN 2	Nucle Manager Proced	ar nent ure	Actions for Potential C Contamination I	Broundv Events	vater	NMP-E Versio Page S	N-002 on 1.0 9 of 9
	B 50.75(a)	Leak/Spill (Decommissioning Reco	rd	(R-type G	G3.100)	
PART 1 - Loca	tion/Sour	ce					
Event Date	Plar	t Name:	Individual Contact Na	me:	Check	one: Leak?	Spil
4/04/07	E.1.	Hatch	Violet M. Colem	an		N/A	N//
Volume (gallor	ns):	Locatio	n of spill/leak		Sour	ce of spill/leak	(.
N/A	Mon side tritiu	itoring well I of U-2 CST m increase	NW10 next to west showed significant	. P	No new lea	iks or spills ide	entified
Duration of leak	/spill: mor	thly NW10 t	ritium sample result inc	rease fr	om previou	us month	
Gamma Activity	(uCi/cc)	Tri	tium Activity (pCi/L)		Total	Area Impacte	d (ft2)
No activity on spectrosc	gamma opy		6.99E4			N/A	
PART 2 - Ever	nt Descrip	tion			•	· · · ·	
Outside of Prote	ected Area	i? 🗌 Yes	🛛 No 🔲 Unknow	/n			
	•		1				
10							
lf unknown, wi	hat action	s needed to	o determine? N/A			······································	
If unknown, wi Monthly sampli 69,900 pCi/L, 7	hat action	s needed to NW10 (west was verified	o determine? N/A Description of event/ side of U2 CST) showe	issue ed a triti	um increas	se from 40,000 were sampled) pCi/L t
If unknown, wi Monthly samplin 69,900 pCi/L. determine if the at previous bac	hat action ng of well This result tritium wa kground le	s needed to NW10 (west was verified is migrating wels.	o determine? N/A Description of event/ side of U2 CST) showe . Nearest ground water outward. These well (N	issue ed a triti r monito IW2A, N	um increas pring wells IW2B, NW	se from 40,000 were sampled '3A, NW3B) re	D pCi/L t I to esults we
If unknown, wi Monthly samplin 69,900 pCi/L. T determine if the at previous bac	hat action ng of well This result tritium wa kground le	s needed to NW10 (west was verified us migrating evels. Acti	o determine? N/A Description of event/ side of U2 CST) showe . Nearest ground water outward. These well (N	issue ed a triti r monito IW2A, N ill or Le	um increas pring wells W2B, NW eak	se from 40,000 were sampled /3A, NW3B) re	D pCi/L t I to esults we
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If unknown, wi Monthly samplin 69,900 pCi/L. T determine if the at previous bac Above ground p Continuing to m results showing through to grou PART 3 – Com Condition Repo State Agency N (Describe what when and who)	hat action ng of well This result tritium wa kground le biping and Actions no activity nd under t munication agency, n (when a	s needed to NW10 (west was verified s migrating vels. Acti tank were cl Taken to Cl reased tritiun present. In he slab. 20 : 21 : 4, ad who) N	o determine? N/A Description of event/ side of U2 CST) showed Nearest ground water outward. These well (N ons Taken to Stop Sp hecked. No visible leak ean-up Spill or Leak a m sample frequency for hecrease in activity possil 007103999 nv. Affairs notified Ga. \$ /5/07)	issue ed a tritic monito IW2A, N ill or Le s prese ind Lon NW10, bly due	um increas pring wells IW2B, NW eak nt. gamma is to water in PD (Courte dickey 4/5	se from 40,000 were sampled /3A, NW3B) re onitoring otopic perform pump moat s	D pCi/L t to esults we ned with seeping

			CRIDA Record		9 <i>1</i> 9.~~~9.%
Condition Rej	port: 2007103999	Status: Fina	I Review Required	Entry Date: 04/04/20	07 Unit: H
Discovered:	04/04/2007 12:00:	OOPM	Building: Yard	di seconda d	Event
By:	William E Duvall III		Flov		Date:
Phone:	8-692-5866 33	-	EIGV.	,	Time:
Dent:	Hatch - Chemistry		Room:		
Sect:	Chemistry	•	Location:		
Description o	of Condition:		r .		
Tritium sample (NW-10 is newly service on 10/9/ present. Disposi Additional monit tritium plume or State EPD tomoi	results from ground w installed ground wate /06 and is being moni- tion this CR to chemis toring is being establis utside protected area. rrow as courtesy call.	ater well NW-10 er well located ju tored on a mont stry to determine shed to determine No regulatory r	Indicate an increase li st west on Unit 2 CST hiy basis. This area ha a the cause of tritium i e plume boundary and notification required, b	n activity from approximatel Transfer Pumps Enclosure. s been visually inspected an ncrease i.e. from new source i movement. Current and h ut SNC Environmental Affair	ly 40,000 to 70,000 This well was placed of no active leaks an e or historical leak. Istorical data confirm s scheduled to contr
What is affect	ted:		€ 		
Routine Monition	ring and Sampling per	64CH-SAM-028	2		
CR Type		*	Status		
			C Dispater		State Baseling
Nork Event:		WalkThrough:	No Hold:	No OPS Review R	leq: Yes
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Apparent Cause le impact the operation tg 5-2-07 CR#2007103999 Tritium sample resinstalled ground with monitored on a monitored for	a complete; however, due on of the plant due to the suits from ground water w ater well located just wes onthly basis. This area ha n increase i.e. from new s nt and historical data con airs scheduled to contact ement suits from ground water w use(s) and Cause Code(s a ground water tritium activity tritium activity from NW-1 he U2 CST Pump Moat ke on the U2 Condensate Tr poded with approximately However, the increased or to being drained to ra- his water migrate to NW-1	a date will be extend fact that this is an well NW-10 indicate at on Unit 2 CST Tr as been visually ins source or historical firms no tritium plu t State EPD tomorn well NW-10 indicate a) ivity results from th 10 has increased di eak? ransfer Pump was i / two feet of water. amount of water. adwaste. This wate	ded with Mgr's(WED) app enironmental issue with t enironmental issue with t enarsfer Pumps Enclosure, pected and no active leak leak. Additional monitori ime outside protected are ow as courtesy call. en increase in activity fro e NW-10 well increased fi ue to a contaminated leak dentified in condition repor The pump moat had bee oupled with small cracks in er eventually migrated to i 6 months)?	roval to give extra day for appro ritium and there are no notificati or approximately 40,000 to 70,0 This well was placed in service (s are present. Disposition this 0 ng is being established to deten a. No regulatory notification req or approximately 40,000 to 70,0 rom 40,000 pCi/L to 70,000 pCi/ t inside U2 CST Pump Moat, wh out 2006110915 (November 2000 n coated with Decathane to help n the moat barrier caused some NW-10.	priate reviews. This do ions to be made at this 200 pCi/L. NW-10 is no a on 10/9/06 and is beil CR to chemistry to deter mine plume boundary a juired, but SNC 200 pCi/L. 200 pCi/L. 200 pCi/L. 5). At that time, the U2 p prevent leakage to the of the water to escape
Apparent Cause is impact the operation tg 5-2-07 CR#2007103999 Tritium sample res- installed ground with movement. Currer Environmental Affa 1. Problem Statu Tritium sample res- 2. Apparent Cau " (1) Why have The ground water 1 NW-10. " (2) Why did th NW-10. " (2) Why did th A pump Seal leak of Pump Moat was fild surrounding area p " (3) How did th Underground pipe the the pipe replacement void in the soil expl several months.	a complete; however, due on of the plant due to the suits from ground water w ater well located just wes onthly basis. This area ha in increase i.e. from new s nt and historical data con airs scheduled to contact ement suits from ground water w use(s) and Cause Code(s or ground water tritium activity tritium activity from NW-1 he U2 CST Pump Moat le con the U2 Condensate Tr boded with approximately However, the increased or on the U2 Condensate Tr boded with approximately However, the increased or his water migrate to NW-1 going into the U2 CST Pu ent, a hole approximately edited the migration of w	e date will be extend fact that this is an well NW-10 indicate at on Unit 2 CST Tr as been visually ins source or historical firms no tritium plu t State EPD tomore well NW-10 indicate s) ivity results from th 10 has increased di eak? ransfer Pump was i / two feet of water. adwaste. This water 10 so quickly (i.e., (ump Moat was repl 10' deep by 10' win rater from the U2 Ci	ded with Mgr's(WED) app enironmental issue with t e an increase in activity fro ansfer Pumps Enclosure, pected and no active leak leak. Additional monitori ime outside protected are ow as courtesy call. e an increase in activity fro e NW-10 well increased fi ue to a contaminated leak identified in condition repor The pump moat had bee pupted with small cracks in ar eventually migrated to 1 6 months)? acced by above ground pig de was excavated. The h ST Pump Moat to NW-10	roval to give extra day for appro ritium and there are no notificati orn approximately 40,000 to 70,0 This well was placed in service (s are present. Disposition this 0 org is being established to deten a. No regulatory notification req orm approximately 40,000 to 70,0 norm 40,000 pCi/L to 70,000 pCi/ t inside U2 CST Pump Moat, wh ort 2006110915 (November 2006 in coated with Decathane to help in the moat barrier caused some NW-10.	priate reviews. This do ions to be made at this 200 pCi/L. NW-10 is no 3 on 10/9/06 and is bein CR to chemistry to deter mine plume boundary a quired, but SNC 200 pCi/L. 200 pCi/L. 200 pCi/L. 300 pCi/L. 300 pCi/L. 310 pC
Apparent Cause la impact the operation to 5-2-07 CR#2007103999 Tritium sample resinstalled ground with monitored on a mo- the cause of tritium movement. Current Environmental Affa 1. Problem Statu Tritium sample resinstal (1) Why have (1) Why have The ground water for NW-10. (2) Why did the NW-10. (2) Why did the NW-10. (3) How did the Inderground pipe for he pipe replacement rold in the soil explayer is a code:	a complete; however, due on of the plant due to the sults from ground water w ater well located just wes onthly basis. This area ha n increase i.e. from new s nt and historical data con airs scheduled to contact ement sults from ground water w use(s) and Cause Code(s a ground water tritium activity tritium activity from NW-1 he U2 CST Pump Moat le on the U2 Condensate Tr boded with approximately However, the increased on the U2 Condensate Tr boded with approximately However, the increased on the U2 CST Pump Moat le on the U2 Condensate Tr boded with approximately However, the increased of his water migrate to NW-1 going into the U2 CST Pu ent, a hole approximately edited the migration of wr	e date will be extend fact that this is an well NW-10 indicate at on Unit 2 CST Tr as been visually ins source or historical firms no tritium plu State EPD tomorn well NW-10 indicate s) ivity results from th 10 has increased di eak? ransfer Pump was i / two feet of water. amount of water co adwaste. This wate 10 so quickly (i.e., f ump Moat was repl 10' deep by 10' win ater from the U2 C	ded with Mgr's(WED) app enironmental issue with t e an increase in activity fro ansfer Pumps Enclosure. pected and no active leak leak. Additional monitori ime outside protected are ow as courtesy call. • an increase in activity fro e NW-10 well increased fr ue to a contaminated leak identified in condition repor The pump moat had bee pupted with small cracks in ar eventually migrated to 1 6 months)? acced by above ground pin de was excavated. The h ST Pump Moat to NW-10	roval to give extra day for appro ritium and there are no notificati or approximately 40,000 to 70,0 This well was placed in service (s are present. Disposition this C ng is being established to deten a. No regulatory notification req or approximately 40,000 to 70,0 rom 40,000 pCi/L to 70,000 pCi/ to inside U2 CST Pump Moat, wh out 2006110915 (November 2006 n coated with Decathane to help in the moat barrier caused some NW-10.	priate reviews. This do ions to be made at this 200 pCi/L. NW-10 is me a on 10/9/06 and is bein CR to chemistry to dete mine plume boundary a juired, but SNC 200 pCi/L. 200 pCi/L. 200 pCi/L. 300 pCi/L.

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Condition Report: 2007103999	Status: Final Review Required	Entry Date: 04/04/2007	Unit: H2
L2E: Man-machine Interface or Equipment C CST seal leak that flooded the pump moat c been determined to be the apparent causes	ondition/Equipment Condition/Component oupled with the pump moat having small or of the increase tritium activity at the NW-10	Aging: acks to allow water to escape to surrou D well.	nding areas have
Event Investigation		· · ·	•
Due to the heighten awareness of ground wa plume of the site (there were previously iden drill 12 new ground water wells at strategic k installed was NW-10 located on the west sid 30,000 pC/L. Subsequent monthly sampling Other initiatives were also being performed t the CST's and piping penetrating the respect walls of the U1 and U2 CST Moats was cone CST walls and floor was completed Septemi On October 4, 2006, a leak on the U2 CST T introduced into the moat. The water remains The monthly tritium sample of NW-10 taken sample was taken and re-analyzed to confirr it was then determined that a courtesy notific the sensitivity to ground water tritium issues. guidance of this communication. During the October 2006 flooding incident so seen in the groundwater at NW-10 (shallow'	ter tritium Issues, a recent hydrology study tified/known historical leaks around the U1 boations around plant site. These wells we e of the U2 CST Transfer Pump Moat near g from this location indicated similar results to address possible leakage avenues for U1 tive CST Moats walls. As a result of the ini lucted. Decathane was selected as a pain per 20, 2006. Transfer Pump Seal Water Line was identified in the moat until it could be drained to ra March 22, 2007, measured 70,000 pCi/L, w in the increase. ration to the State and site NRC would be j A draft of NMP-ES-002, Actions for Poter sel about 20' deep) several months later. off (cee asombe results below)	was conducted to map the current gro CST). A recommendation from the hy- re installed in September 2006. One of the stairs. Baseline tritium results from and U2 from thinning, underground pi- titative, sealing the visible cracks and pi- t sealant for this purpose. The Decatha- ied and, as a result, approximately two idwaste about 2 days later. which was a significant increase from pi- performed due to the verified increase from thial Groundwater Contamination Events ough small crevices and into the ground Since this discovery, weekly samples of	und water tritium frology study was to the new wells NW-10 indicated bing in the vicinity of ainting the floors and ine coating on the U2 feet of water was evious result. Anoth of tritium at NW-10 ar a, was used for , eventually being f NW-10 show
another step-increase but have now leveled Tritium results (pCi/L) for NW-10:	off (see sample results below).		
10/09/06 39500 11/19/06 36700 11/27/06 36900 12/07/06 36500 12/22/06 34200			
Tritium results (pCi/L) for NW-10(cont.):			
01/04/07 32800 01/25/07 30900 02/20/07 39500 03/22/07 69900 04/04/07 80400 04/16/07 95600 04/23/07 110000 04/30/07 107000			
3. Broadness Review (Required for QA Au around U1 CST moat and pump moat. Ther tritium as required by procedure 64CH-SAM	idit Findings and recommend for equipmer e has been leakage in the past from the m 028-0.	it issues, otherwise optional): This is a oat and these are addressed by routine	oplicable to the areas ly monitoring for
4. Interim Corrective Actions:	<i>,</i>		
 Visually inspect U2 CST Moats for active Performed gamma isotopic of NW-10.((Have HP perform a radiological survey Sampled other groundwater well near N Increase sampling frequency of NW-10 Consult hydrologist to determine feasible 	e leak.(Complete:No leaks identified). Complete:No gamma emitters identified) of the U2 CST Moat area.(Complete:No co W-10 for tritium activity changes.(Complet to weekly(Complete). ility of other possible sources.	ntamination identified). e:NW-2A Indicated background).	. •
5. Recommended Corrective Actions:			
Continue increased sampling frequency (Chemistry:8/10/07) Repair seal leak on U2 CST transfer pu Replace underground piping entering U Consult hydrologist to determine tritium	until tritium activity is stable or decreases mp as given in WO 2062378601. (Mainter 2 CST pump moat with above ground pipin inputs in this area and update groundwate correctly identified and trend indicates no	then resume frequency as specified by nance:complete) g and fill hole.(Maintenance:complete) r plume mapping.(Chemistry:6/1/07) additional leakage in this area (Chemis	64CH-SAM-028. try:8/10/07)
Review gata to ensure trittum spike was			

			GROARcood				
Condition Report: 200	07103999	Status: Fina	I Review Required	Entry D	ate: 04/04/2007	Unit:	H2
	S.N.CAR	CALLER CONTRACT	Baulpments				5.00 M
Equipment: N/A Safety Class: N Nuc. Class: Category: Operability	Active Tag	NOT APPLI	CABLE Type: S Team: MAIN Event:	Lo	cation:	•	
Status: Operabl TSLCO#: na Comment:	é	:	Tracking#: n/a Type: N/A				
			United Review		and a state of the	and the second	
Power: 100 M	ode: Moc	le 1	RC Temp:	NOT	RC Pressure: NO	ș: ·	
Event Related Evolut Routine sampling	tions In P	rogress:			· · · · · · · · · · · · · · · · · · ·		e
Imm. Reportable No.	Hours:	Date:	Time:		NRC Rpt. #		
Compensatory Action	ns Taken:	•	· · · · · · · · · · · · · · · · · · ·		· ·		
Received Date: Short Explanation:	Seve	rity Lev: 3	Reportable?	Impact (o Plant:		
Received Date: Short Explanation: Explanation: n/a Required Analysis Me Due Date: 5/3/07 Reviewed By: Approved By:	Seve thod BCD Dis	arity Lev: 3	Reportable?	Impact (sp. Dept: emistry	o Plant:		
Received Date: Short Explanation: Explanation: n/a Required Analysis Me Due Date: 5/3/07 Reviewed By: Approved By:	Seve thod BCD Dis	arity Lev: 3	Reportable?	Impact (sp. Dept: emistry /:	o Plant:		
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Received Date: Short Explanation: Explanation: n/a Required Analysis Me Due Date: 5/3/07 Reviewed By: Approved By: TITLE PRB/PORC review? PRB/PORC comment Per MRM on 4-6-07 CR I reflect 30days. tg4-6-07	Seve thod BCD Dis TO Mee nts has been est	erity Lev: 3 ACD X sposition Res PER ting Num: calated to SL-3 w	Reportable? Reportable? RCCA RCCA Resources RCCA RCCA Resources RCCA RCCA Resources P. Dept: Hatch - Che Closed By D/ Date // Date // Date // Date	Impact (sp. Dept: emistry y: ATE TT e: due date (vPE will be reset to	NUM	
Received Date: Short Explanation: Explanation: n/a Required Analysis Me Due Date: 5/3/07 Reviewed By: Approved By: TITLE PRB/PORC review? PRB/PORC review? PRB/PORC comment Per MRM on 4-6-07 CR I reflect 30days. tg4-6-07 Major categor Safety func. affecte	Seve	arity Lev: 3	Reportable?	Impact 1 sp. Dept: emistry : ATE TY e: due date of	io Plant: //PE will be reset to	NUM	
Received Date: Short Explanation: Explanation: n/a Required Analysis Me Due Date: 5/3/07 Reviewed By: Approved By: TITLE PRB/PORC review? PRB/PORC review? PRB/PORC Comment Per MRM on 4-6-07 CR I reflect 30days. tg4-6-07 Major categor Safety func. affecte Cause Dep	Seve thod BCD Dis TO Mee nts has been est y: Other d: NA ot: Hatch - 0	arity Lev: 3 ACD X sposition Resp PER ting Num: calated to SL-3 w Chemistry	Reportable?	Impact (sp. Dept: emistry y: ATE TY e: due date (vPE will be reset to	NUM	
Received Date: Short Explanation: Explanation: n/a Required Analysis Me Due Date: 5/3/07 Reviewed By: Approved By: TITLE PRB/PORC review? PRB/PORC comment Per MRM on 4-6-07 CR in reflect 30days, tg4-6-07 Major categor Safety func. affecte Cause Dep Event Description:	Seve thod BCD Di: TO Mee nts has been esu y: Other d: NA ot: Hatch - 0	erity Lev: 3 ACD X sposition Res PER ting Num: calated to SL-3 w Chemistry	Reportable?	Impact (sp. Dept: emistry /: ATE Th a: due date (PE will be reset to	NUM	
Received Date: Short Explanation: Explanation: n/a Required Analysis Me Due Date: 5/3/07 Reviewed By: Approved By: TITLE PRB/PORC review? PRB/PORC review? PRB/PORC comment Per MRM on 4-6-07 CR I reflect 30days. tg4-6-07 Major categor Safety func. affecte Cause Dep Event Description: Event Code Group Event Code Group Event Code Group	Seve thod BCD Di TO Mee nts has been est y: Other d: NA y: Other d: NA p1: Chemis p2: p3:	erity Lev: 3 ACD X sposition Resp PER ting Num: calated to SL-3 w Chemistry try Related Even	Reportable?	Impact 1 sp. Dept: emistry r: ATE T attended to the second	vPE will be reset to	NUM	

Page 3 (of 9)

ondition Report:	2007103999	Status: Fina	I Review Required	Entry Date: 04/04/	2007 Ur
			Dispectition		
Department:	Hatch - Chem	histry	· · ·	Status:	•
Section:	Chemistry			Final Review R	equired
Person:	Violet M. Cole	man			
Prepared By:	thgordon	Date:	5/3/07		
Approved By:	weduvall	Date:	5/3/07	Last Action Du	e 08/10/2007
Disposition: Apparent Cause is a appropriate reviews issue with tritium a	complete; howe 5. This does not nd there are no	ver, due date will impact the opera notifications to b	be extended with M ition of the plant due e made at this point	gr's(WED) approval to give to the fact that this is an . tg 5-2-07	e extra day for enironmental
CR#2007103999 Tritium sample resu to 70,000 pCI/L. N Enclosure. This we been visually inspe- of tritium increase i plume boundary an No regulatory notifi courtesy call.	ults from ground W-10 is newly in Il was placed in Ited and no acti I.e. from new so d movement. C Ication required,	d water well NW-1 nstalled ground w service on 10/9/ ive leaks are pres purce or historical Current and histor , but SNC Environ	10 Indicate an increa vater well located jus 06 and is being mon ent. Disposition this leak. Additional mo rical data confirms no mental Affairs sched	se in activity from approxi- it west on Unit 2 CST Trans- itored on a monthly basis. CR to chemistry to determ- nitoring is being establishe o tritium plume outside pro- luled to contact State EPD	mately 40,000 sfer Pumps This area has the cause ed to determine otected area. tomorrow as
1. Problem Stater	nent			· .	
Tritium sample resu to 70,000 pCi/L.	ults from ground	1 water well NW-1	LO indicate an increa	se in activity from approxi	mately 40,000
2. Apparent Caus	e(s) and Cause	Code(s)			
" (1) Why have g 70,000 pCl/L?	ground water tri	itium activity resu	ilts from the NW-10	well increased from 40,00	0 pCi/L to
The ground water t Moat, which is in cl NW-10.	ritium activity fr ose proximity to	rom NW-10 has Ir)	ncreased due to a co	ntaminated leak inside U2	CST Pump
" (2) Why did the	e U2 CST Pump	Moat leak?			
A pump seal leak o 2006). At that time had been coated wi amount of water co surrounding area p	n the U2 Conde e, the U2 CST P th Decathane to upled with smal rior to being dra	nsate Transfer Pu ump Moat was flo b help prevent lea Il cracks in the mo ined to radwaste	mp was identified in oded with approxim kage to the surroun oat barrier caused so . This water eventua	condition report 2006110 ately two feet of water. The ding area. However, the is ome of the water to escape ally migrated to NW-10.	915 (November ne pump moat ncreased to the
" (3) How did thi	s water migrate	to NW-10 so qui	ckly (i.e., 6 months)	?	
Underground pipe of and April 2007. To excavated. The hol migration of water is after several month	going into the U accommodate i le was located a from the U2 CS Is.	2 CST Pump Moat the pipe replacem bout 5 feet from T Pump Moat to N	was replaced by ab ent, a hole approxin NW-10. The resulti IW-10, which increas	ove ground pipe between on nately 10' deep by 10' wide ng vold in the soil expedite and the measured tritium le	October 2006 e was ed the evels at NW-10
Cause Code:					
L2E: Man-machine CST seal leak that f escape to surround the NW-10 well.	Interface or Equ looded the pum ing areas have t	ipment Condition p moat coupled w been determined	/Equipment Conditio vith the pump moat I to be the apparent c	on/Component Aging: having small cracks to allo auses of the Increase tritiu	w water to Im activity at
Event Investigation					
Due to the heighten the current ground	awareness of g water tritium pl	pround water tritin ume of the site (t	um issues, a recent l here were previously	hydrology study was condu v identified/known historica	ucted to map al leaks around

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CR ON ROOM Condition Report: 2007103999 Status: Final Review Required Entry Date: 04/04/2007 Unit: H2 locations around plant site. These wells were installed in September 2006. One of the new wells installed was NW-10 located on the west side of the U2 CST Transfer Pump Moat near the stairs. Baseline tritium results from NW-10 indicated 30,000 pCi/L. Subsequent monthly sampling from this location indicated similar results. Other initiatives were also being performed to address possible leakage avenues for U1 and U2 from thinning, underground piping in the vicinity of the CST's and piping penetrating the respective CST Moats walls. As a result of the initiative, sealing the visible cracks and painting the floors and walls of the U1 and U2 CST Moats was conducted. Decathane was selected as a paint sealant for this purpose. The Decathane coating on the U2 CST walls and floor was completed September 20, 2006. On October 4, 2006, a leak on the U2 CST Transfer Pump Seal Water Line was identified and, as a result; approximately two feet of water was introduced into the moat. The water remained in the moat until it could be drained to radwaste about 2 days later. The monthly tribum sample of NW-10 taken March 22, 2007; measured 70,000 pCi/L; which was a significant: increase from previous result. Another sample was taken and re-analyzed to confirm the increase. It was then determined that a courtesy notification to the State and site NRC would be performed due to the verified increase of tritium at NW-10 and the sensitivity to ground water tritium issues. A draft of NMP-ES-002, Actions for Potential Groundwater Contamination Events, was used for guidance of this communication. During the October 2006 flooding incident some of the water from the most seeped through small crevices and into the ground, eventually being seen in the groundwater at NW-10 (shallow well about 20' deep) several months later. Since this discovery, weekly samples of NW-10 show another step increase but have now leveled off (see sample results below). Tritium results (pCi/L) for NW-10: 10/09/06 39500 36700 11/19/06 11/27/06 36900 36500 12/07/06 34200 12/22/06 Tritium results (pCi/L) for NW-10(cont.): 32800 01/04/07 01/25/07 30900 02/20/07 39500 69900 03/22/07 04/04/07 80400 04/16/07 95600 110000 04/23/07 04/30/07 107000 Broadness Review (Regulred for QA Audit Findings and recommend for equipment issues, otherwise 3 optional): This is applicable to the areas around U1 CST moat and pump moat. There has been leakage in the past from the moat and these are addressed by routinely monitoring for tritlum as required by procedure 64CH-SAM-028-0. 4. Interim Corrective Actions: Visually Inspect U2 CST Moats for active leak. (Complete: No leaks Identified). Performed gamma isotopic of NW-10. (Complete: No gamma emitters identified) Have HP perform a radiological survey of the U2 CST Moat area. (Complete: No contamination Identified). Sampled other groundwater well near NW-10 for tribum activity changes. (Complete:NW-2A Indicated background). Increase sampling frequency of NW-10 to weekly(Complete). Consult hydrologist to determine feasibility of other possible sources. 5. Recommended Corrective Actions: Continue increased sampling frequency until tritium activity is stable or decreases then resume frequency as specified by 64CH-SAM-028. (Chemistry:8/10/07) Repair seal leak on U2 CST transfer pump as given in WO 2062378601. (Maintenance:complete) Replace underground piping entering U2 CST pump moat with above ground piping and fill nole. (Maintenance:complete) Consult hydrologist to determine tritium inputs in this area and update groundwater plume mapping. (Chemistry:6/1/07) Review data to ensure tritlum spike was correctly identified and trend indicates no additional leakage in this area.(Chemistry:8/10/07) Performance Recorded and Recording Stores and the state Record Recording Stores and the state Record Recording Stores and

Condition Report: 2007103999	Status: Final Review Requ	ired Entry Date: 0	4/04/2007 Uni	t: H2
Maint. rule scope? No	Function Failure? N/A	Is this an MPFF	7 No	
Justification By: thgordon	4/5/07	MR assigned to:	,	
Jüstification:		• •		
				TICHER !!
Chatway Final Daview Required	(KCCA)	terre de la constante		-1213
Status: Final Review Required		· · · ·		
Event desc. or failure scena	rio:		· · ·	
CR#2007103999 Tritium sample results from ground 40,000 to 70,000 pCl/L. NW-10 is Transfer Pumps Enclosure. This we monthly basis. This area has been to chemistry to determine the caus monitoring is being established to confirms no tritium plume outside Environmental Affairs scheduled to	d water well NW-10 indicate an in newly installed ground water well was placed in service on 10/9 visually inspected and no active se of tritium increase i.e. from no determine plume boundary and protected area. No regulatory me contact State EPD tomorrow as	ncrease in activity from a ell located just west on U /06 and is being monitor leaks are present. Dispo ew source or historical lea movement. Current and otification required, but S courtesy call.	ipproximately nit 2 CST ed on a sition this CR ak. Additional historical data SNC	
1. Problem Statement				
Tritium sample results from ground 40,000 to 70,000 pCi/L.	d water well NW-10 indicate an I	ncrease in activity from a	ipproximately	
2. Apparent Cause(s) and Cause	Code(s)	· ·		
" (1) Why have ground water tr to 70,000 pCi/L?	itium activity results from the N	V-10 well increased from	40,000 pCi/L	
The ground water tritium activity for Pump Moat, which is in close proxime NW-10.	rom NW-10 has increased due to mity to	a contaminated leak ins	ide U2 CST	
" (2) Why did the U2 CST Pump	Moat leak?			
A pump seal leak on the U2 Conde (November 2006). At that time, th water. The pump moat had been of area. However, the increased amo some of the water to escape to the eventually migrated to NW-10.	nsate Transfer Pump was identif the U2 CST Pump Moat was flood coated with Decathane to help p punt of water coupled with small surrounding area prior to being	ed in condition report 20 ed with approximately tw revent leakage to the sur cracks in the moat barrie drained to radwaste. Th	06110915 o feet of rounding r caused his water	
" (3) How did this water migrate	e to NW-10 so quickly (i.e., 6 mc	nths)?		
Underground pipe going into the U. October 2006 and April 2007. To a 10' wide was excavated. The hole expedited the migration of water fr tritium levels at NW-10 after sever	2 CST Pump Moat was replaced accommodate the pipe replacem was located about 5 feet from N rom the U2 CST Pump Moat to N al months.	by above ground pipe bei ent, a hole approximately W-10. The resulting voi W-10, which increased th	tween / 10' deep by Id in the soll ne measured	
Cause Code:				
L2E: Man-machine Interface or Equ CST seal leak that flooded the pum water to escape to surrounding are tritium activity at the NW-10 well.	upment Condition/Equipment Co p moat coupled with the pump i as have been determined to be	ndition/Component Aging noat having small cracks the apparent causes of th): to allow ne increase	
Event Investigation			·	
Due to the heighten awareness of o to map the current ground water to historical leaks around the U1 CST ground water wells at strategic loca 2006. One of the new wells install	ground water tritium issues, a re- itium plume of the site (there w). A recommendation from the h ations around plant site. These ed was NW-10 located on the w	cent hydrology study was ere previously identified/i ydrology study was to dr wells were installed in Sej st side of the U2 CST Tra	s conducted known ill 12 new ptember assfer Pump	

			CRC CRC	ARecord			
C	ondition F	teport: 2007103999	Status: Final Revie	w Required	Entry Date: 04/04/2007	Unit:	н
	Moat near sampling fr Other initia thinning, u walls. As a and U2 CS Decathane On Octobe approxima could be di	the stairs. Baseline tri rom this location indica atives were also being p inderground piping in the a result of the initiative T Moats was conducted coating on the U2 CST r 4, 2006, a leak on the tely two feet of water v rained to radwaste abo	tium results from NW-10 ted similar results. performed to address pos- he vicinity of the CST's an , sealing the visible cracks . Decathane was selected walls and floor was comp e U2 CST Transfer Pump s was introduced into the m was later.	indicated 30,000 sible leakage ave d piping penetra s and painting th d as a paint seal pleted Septembe Seal Water Line oat. The water i	pCl/L. Subsequent monthly enues for U1 and U2 from iting the respective CST Moats the floors and walls of the U1 ant for this purpose. The ir 20, 2006. was identified and, as a result, remained in the moat until it		
•	The month significant increase. It was ther	ly tritium sample of NV increase from previous n determined that a cou	V-10 taken March 22, 200 result. Another sample v urtesy notification to the S	7, measured 70, was taken and re State and site NR	,000 pCi/L, which was a e-analyzed to confirm the RC would be performed due to		
:	NMP-ES-00 communica During the crevices ar deep) seve	2, Actions for Potentia ation. October 2006 flooding nd into the ground, eve eral months later. Since	I Groundwater Contamina i incident some of the wat intually being seen in the e this discovery, weekly s	er from the moa groundwater at l amples of NW-1	is used for guidance of this is used for guidance of this it seeped through small NW-10 (shallow well about 20' 0 show another step increase		
	but have n	ow leveled off (see san	nple results below).				
	10/09/06 11/19/06 11/27/06	39500 36700 36900					
	12/07/06 12/22/06	34200					
	01/04/07 01/25/07 02/20/07 03/22/07 04/04/07 04/16/07 04/23/07 04/30/07	32800 30900 39500 69900 80400 95600 110000 107000					
	3. Broadi optional): in the past procedure	ness Review (Required This is applicable to the from the moat and the 64CH-SAM-028-0.	for QA Audit Findings and e areas around U1 CST m ase are addressed by rout	I recommend for oat and pump m inely monitoring	equipment issues, otherwise noat. There has been leakage for tritium as required by		•
	4. Interin "Visuali "Perfori "Have H identified).	n Corrective Actions: iy inspect U2 CST Moat: med gamma Isotopic of HP perform a radiologic	s for active leak.(Complet f NW-10.(Complete:No ga al survey of the U2 CST N	e:No leaks ident mma emitters id loat area.(Comp	ified). lentified) lete:No contamination		
	" Sampl- Indicated b " Increa " Consul	ed other groundwater v background). se sampling frequency It hydrologist to determ	well near NW-10 for tritiun of NW-10 to weekly(Com hine feasibility of other po	n activity chang plete). ssible sources.	es.(Complete:NW-2A		
	5. Recom	mended Corrective Act	tions:				
	Contin frequency a Repair Replac (Maintenan Consul (Chemistry Review	ue increased sampling as specified by 64CH-S seal leak on U2 CST tr te underground piping e (ce:complete) it hydrologist to determ :6/1/07) v data to ensure tritum	frequency until tritlum act AM-028. (Chemistry:8/1 ransfer pump as given in V entering U2 CST pump mo alne tritlum inputs in this a a spike was correctly ident	ivity is stable or 0/07) NO 2062378601 Nat with above gi area and update ified and trend ii	decreases then resume (Maintenance:complete) round piping and fill hole. groundwater plume mapping. ndicates no additional leakage		

•

Condic	ion Report: 2007103999	Status: F	inal Review Required	Entry Date	: 04/04/2007	Unit: H
Inve	estigation scope/broadn	ess review			I	
3. E optio the p	Broadness Review (Required f onal): This is applicable to the past from the moat and these prime 64CH-SAM-028-0.	for QA Audit F areas around are addressed	indings and recommend i U1 CST moat and pump by routinely monitoring	for equipment is o moat. There ha for tritium as re	sues, otherwise as been leakage in quired by	
Is th	nis a repeat event? No	Wa	as Previous RCCA ad	lequate? N/A	<u>،</u>	
		· · · · ·				
n/a	eat event review:	· .			,	
	ther train/channel/unit	checked	Other similar p	rocess checke	ed 🗌 Other sin	nilar comp
P	encil and Paper narrativ	e	Cause identifica	ation workshe	et X Apparent	cause
В	arrier analysis		Fault tree analy	/sis	uelei mini	ation
[] c	hange analysis		Kepner-Tregoe	analysis		-
[] E	vent and causal factor f	low char.	Other:			
	crintian of causes:			•		
Caus	se Code:					
1.75.	Man-machine Interface or	Squinment	Condition/Equipment (Condition/Com	nonent Aning.	
	seal leak that flooded the	equipment	condition/Equipments	condition/components p moat having s	ponent Aging: small cracks to all	ow water
to es	scape to surrounding areas	have been	determined to be the a	apparent cause	s of the increase t	ritium
activ	ity at the NW-10 well.					
B						
Cau	se Dept 1: Hatch - Chemis	try				
Cau Cau	se Dept 1: Hatch - Chemis se Dept 2:	try				
Cau: Cau: Cau:	se Dept 1: Hatch - Chemis se Dept 2: se Dept 3:	try				<u>,, </u>
Cau: Cau: Cau: Grou	se Dept 1: Hatch - Chemis se Dept 2: se Dept 3: up1: Man-machine Interface	try e or Equip Con	d/Equipment Condition/C	Component aging)	
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Caus Caus Caus Grou Grou	se Dept 1: Hatch - Chemis se Dept 2: se Dept 3: up1: Man-machine Interface up2:	try e or Equip Con	d/Equipment Condition/C	Component aging)	
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Cau Cau Grou Grou Grou Grou Item	se Dept 1: Hatch - Chemis se Dept 2: se Dept 3: up1: Man-machine Interface up2: up3: up4: <u>Description</u> <u>Section Concurre</u> This Corrective Action is a in Action to take: Continue increased samplin	e or Equip Con ence? Re result of a Si	d/Equipment Condition/C spon.Person _3 CR. until tritium activity	Component aging DueDate ConcurApp 8/10/07	Responsi Date Hatch - Chemisti	ble Dept. AI
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Condition Report: 2	00710399	9 Stat	us: Final R	evlew Requ	lired En	try Date: (04/04/2007	Unit: H2
Sequence of Personnel	of event(: statemen eview doi	s) docum t(s) docu	ients attai iments at attached.	ched tached.		*		
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RCCA approved	hw: wedu	väll	5/3/07					
RCCA final apor	wer: wedu	ivall	5/3/07		۰			
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Documents: (DCM	Tì							
Class	Title			Entity	Documen	tumID V	Ver er. Type	Doc. Num.
Apparent Cause Form	20071039	999.DOC		VCRT	XX2001291	.73 1.	0 F	2007103999.DOC
Apparent Cause Form	20071039	999.DOC	·		XX2001291	186 1.	0 F	2007103999.DOC
MP5 Documents:		• •	· ·	,			•	
<u>Class</u>	Type	<u>Title</u>			,	MP5 Doc.	ID.	Entity
Resolution document	TABL	System	gen AI#200	7201702		200720170	2	VCRT
Resolution document	TABL	System	gen AI#200	7201703	. •	200720170	3	VCRT
Resolution document	TABL	System	gen AI#200	7201704	· · ·	200720170	4	VCRT
Web Documents:						•		
Class	Туре	<u>Title</u>				URL		
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Prepara

Remote CR OA Recondents

Reviser's Onsenor

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SOUTHERN NUCLEAR	<u> </u>		
FORM TITLE:	:	•	PAGE I OF I
RETRIEVAL CODE SHEET			·
*			*********
DOCUMENT NUMBER:	NMP-EN	1-002	• · ·
• DATA PACKAGE/FORM NUMBER:	Figure 1	·	*
* MPL NUMBER:	N/A	· · · · · · · · · · · · · · · · · · ·	*
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* KEYWORDS:	10CFR5	0.75(g)	*
•	Leak/Sp	ill Decommissioning Record	*
* TOTAL SHEETS:	13		*
	5/20/200)5	*
*	5/20/200		••••••••••••••••••••••••••••••••••••••
***************************************	***********	************************************	*******
		UNACCEPTABLE	
· · · · · · · · · · · · · · · · · · ·	1		
RE		BY: Durte a	Hosteller
	DA	TE: 10-15-07	7
REMARKS: This data is required to be sto	red for the	life of the plant by 10CFR50)75(g) and
for Life of Plant+99 by ANI.	:	. ·	
Description: 2005 – 0-1 CST transfer pun	ip recirc al	nu suction line weld cracks le	eaked water to soil.

ADM-0020 REV. 2

21DC-DCX-002-0S

	Sc	uthern Nuclear Operating	Company	· · · ·
SOUTHERN A M COMPANY Exirg to Street Vert	Nuclear lanagement Procedure	Actions for Potential Gr Contamination Ev	oundwater vents	NMP-EN-002 Version 1.0 Page 9 of 9
10 CFB !	50.75(g) Leak/S	oill Decommissioning Record	(B-type GG3	100)
PART 1 - Locatio	on/Source			
Event Date 5/20/05	Plant Name: Hatch	Individual Contact Name: William Duvall	Check one: Leak? Yes	Spill? NA
Volume (gallons)	: Lo	cation of spill/leak	Source	of spill/leak
Unknown	U-1 pump re	ecirc pump and transfer line	Deteriorated a	and cracked piping
Duration of leak/s	pill: Unknown	·····	Le	
Gamma Activity (uCi/cc)	Fritium Activity (pCi/L)	Total Area	Impacted (ft2)
None		Max. 1.02E+06 pCi/L	Und	erground
PART 2 - Event (Description			
Outside of Protect	ted Area?	Yes 🛛 No 🗌 Unknown		· · · · · · · · · · · · · · · · · · ·
If unknown, what	t actions neede	d to determine?		
U-1 CST transfer	pump recirc line	Description of event/is	sue tion line weld crack	s resulted in an
U-1 CST transfer unknown volume Tritium levels in no	pump recirc line of seepage of C earby T12 well r	Description of event/is leaks and transfer pump suc ST water to the surrounding s eached 1.02E+06 pCi/L. (CR	sue tion line weld crack soil over the mid 200 # 2005105510, 200	s resulted in an 05-2006 time frame. 5104789 attached).
U-1 CST transfer unknown volume o Tritium levels in no	pump recirc line of seepage of C earby T12 well r	Description of event/is leaks and transfer pump suc ST water to the surrounding s eached 1.02E+06 pCi/L. (CR Actions Taken to Stop Spil	tion line weld crack soil over the mid 200 # 2005105510, 200	s resulted in an 05-2006 time frame. 5104789 attached).
U-1 CST transfer unknown volume o Tritium levels in no Pipes were isolate	pump recirc line of seepage of C earby T12 well r ed and replaced.	Description of event/is leaks and transfer pump suc ST water to the surrounding s eached 1.02E+06 pCi/L. (CR Actions Taken to Stop Spil	tion line weld cracks soil over the mid 200 # 2005105510, 200	s resulted in an 05-2006 time frame. 5104789 attached).
U-1 CST transfer f unknown volume o Tritium levels in no Pipes were isolate	pump recirc line of seepage of G earby T12 well r ed and replaced.	Description of event/is leaks and transfer pump suc ST water to the surrounding s eached 1.02E+06 pCi/L. (CR Actions Taken to Stop Spill	tion line weld cracks soil over the mid 200 # 2005105510, 200 or Leak	s resulted in an 05-2006 time frame. 5104789 attached).
U-1 CST transfer p unknown volume o Tritium levels in no Pipes were isolate Leaks were above in the concrete or periodic basis by p	pump recirc line of seepage of C earby T12 well r ed and replaced. Actions Taken to ground, but we grouting into soi procedure.	Description of event/is leaks and transfer pump suc ST water to the surrounding s eached 1.02E+06 pCi/L. (CR Actions Taken to Stop Spill D Clean-up Spill or Leak an re partially hidden under insu	tion line weld cracks soil over the mid 200 # 2005105510, 200 I or Leak d Long Term Moni lation. The water s Nearby monitoring v	s resulted in an 05-2006 time frame. 5104789 attached). toring eeped through crack wells are sampled o
U-1 CST transfer p unknown volume o Tritium levels in no Pipes were isolate A Leaks were above in the concrete or periodic basis by p PART 3 – Commo	pump recirc line of seepage of C earby T12 well r ed and replaced. Actions Taken to ground, but we grouting into so procedure.	Description of event/is leaks and transfer pump suc ST water to the surrounding s eached 1.02E+06 pCi/L. (CR Actions Taken to Stop Spill o Clean-up Spill or Leak an re partially hidden under insu	tion line weld cracks soil over the mid 200 # 2005105510, 200 or Leak d Long Term Moni lation. The water s Nearby monitoring v	s resulted in an 05-2006 time frame. 5104789 attached). toring eeped through crack wells are sampled or
U-1 CST transfer p unknown volume o Tritium levels in no Pipes were isolate A Leaks were above in the concrete or periodic basis by p PART 3 – Common Condition Report f	pump recirc line of seepage of C earby T12 well r ed and replaced. Actions Taken to ground, but we grouting into so procedure. Unications	Description of event/is leaks and transfer pump suc ST water to the surrounding s eached 1.02E+06 pCi/L. (CR Actions Taken to Stop Spill o Clean-up Spill or Leak an re partially hidden under insu I beneath the concrete pad.	tion line weld cracks soil over the mid 200 # 2005105510, 200 or Leak d Long Term Moni lation. The water s Nearby monitoring v	s resulted in an 05-2006 time frame. 5104789 attached). toring eeped through crack wells are sampled or
U-1 CST transfer f unknown volume of Tritium levels in no Pipes were isolate A Leaks were above in the concrete or periodic basis by p PART 3 – Common Condition Report f State Agency Not (Describe what ag when and who)	pump recirc line of seepage of C earby T12 well r ed and replaced. Actions Taken to ground, but we grouting into sol procedure. Unications Number: infication: jency,	Description of event/is leaks and transfer pump suc ST water to the surrounding s eached 1.02E+06 pCi/L. (CR Actions Taken to Stop Spill o Clean-up Spill or Leak an re partially hidden under insu I beneath the concrete pad.	tion line weld cracks soil over the mid 200 # 2005105510, 200 I or Leak d Long Term Moni lation. The water s Nearby monitoring v 4789	s resulted in an 05-2006 time frame. 5104789 attached). toring eeped through crack wells are sampled or

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Condition Re	port: 2005105510	Status: Transmitt	ed	Entry Date: 05/	20/2005	Unit: H2
Discovered:	05/20/2005 3:55:00	IPM Bui	Idina: Condensate	Storage Tank		vent:
By:	James D McDonald		Eley: 130 ft.			Date:
Phone:	8-692-2183	r	toom Condensate	Storage Tank End	isure T	'ime:
Dept:	Hatch - Health Physics	e interest	2P11F093		· · · · · · · · · · · · · · · · · · ·	
Sect:	Health Physics				÷.	
Description o	f Condition:		k .			
2P11F093 had fu posted as a contr opened by cleara valve.	I flow leakage of contan aminated area. U2 Cont ince. Ops personnel sak	ninated condensate wat rol Room 55 was notifie I leakage leakage by ot	er onto the deck of ed and Ops personn her 2P11 valves pos	the CST Tank Moat. a arrived later to cl sibly was the reaso	The CST tank m sed the opened for the leakage	oat was alread valve which out of this op
What is affecte	ed:		:			
Leakage of Cond	ensate water from Cond	ensate system into CST	Tank moat and inc	reased radwaste.		
Additional contar	nination to access and w	aiking areas of CST Ta	nk moat.	·····		
How Discover	red:					
HP Monthly CST	surveillence		2			· · · · · · · · · · · · · · · · · · ·
CR Type	······································	,	Status			
(005) Equipmen	t Related		COMP		<u></u>	<u> </u>
			Dispatch			
Work Event:		WalkThrough: No	Hold: I	Vo OPS Re	lew Req: Ye	15
Dispatch Com	mant		i			
From: Quattleb Sent: Thursday, Jur To: Champion, J. Cc: Clark, Lawren	aum, John C. le 16, 2005 12:56 PM Ben lce R.		· : :			
Subject: CH's				d open a drain valve a	nd place sonic flow (detection devic
Ben, I have an open CR	# 2005105510, to resolve the	the ample time to write the	tarout and traubloche	oting plan and install it		
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Imm.	No	Hours	Date:	1	'lme:	NRC Rpt.	
Compensato Tagout 2-DT-05 further action re	r y Action -2P11-0014 quired. SS	s Taken: 18 restored. Le 5 reviewed.	eak was from a drai	i n valve that v	vas open on	the tagout. Leak has been	stopped and iso
ang				Regulate	LÝ		
Received Dat Short Expla	e: 5/2 nation:	3/05 Severi N/A	ity Lev: 4 F	leportable	? 🛄 Im	pact to Plant: Others	
Explanation	1: N/A						
Required Ana	lysis	BCD			CA Resp. C	ept:	
Due Date: Reviewed By Approved By	6/17/05 i jbchar jbchar	npi npi	position Resp. D 5/23/05 1:43 p 5/23/05 1:44 p	ept: Hato m Clo	h - Operatio sed By: J	ns acob B. Champion III	6/17/05 11:19
TITLE		ТО	PER	<u>к</u>	DATE	TYPE	NUM
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PRB/PORC	review?	Meeti	ng Num:	* *	Date:		
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Condition Report: 2005105510	Status: Transmitted	Entry Date: 05/20/20	05 Unit: H2
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CATE ADDRAMONTAL TOUR ADDRAMONTAL DE DE DE DE	Peren	EIIGO (* 1955) Alexandra (* 1956)	
Maint. rule scope? Yes	Function Failure? No	Is this an MPFF? No	•
Justification By: jbchampi	5/23/05	MR assigned to:	
Justification: This leakage did not impact system op	erability. The m/r was not imp	acted.	
	Ree		
Status:	in fan 1992 i sen fan seiten en ste kan de sen die het de sen die seiter en die seiter en die seiter en die se		
Event dess, er failure seenarie	: 		
Event desc. of landre scenario			
Investigation scope/broadnes	s review		
	,		
Is this a repeat event?	Was Previous RC	CCA adequate?	· · · · · · · · · · · · · · · · · · ·
Repeat event review:	<u> </u>		
	:	•	·
Other train/channel/unit ch	ecked Other sin	nilar process checked	her similar component
Pencil and Paper narrative	Cause ide	entification Ap	parent cause
Barrier analysis	Fault tree	e analysis	termination
Change analysis	Kepner-T	regoe	
Event and causal factor flow	w char. Other:		
Description of causes:			
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Condition Rep	port: 200	5104789	Status: Tran	smitted		Entry	Date: 04/28/2	005	Unit: H1
Discovered:	04/28/20	05 11:00:00	L JAM		· Yard	.L	· · · · · · · · · · · · · · · · · · ·		Event.
By:	William E	Duvall III		Flov	, rjaru I		ه		Date: 11/07/20
Phone:	8-692-58	66							Time: 12:00:00
Dept:	Hatch - C	hemistry		Room:					
Secti	Chemistry	1		Location					61 V.s.
Description of	Conditio	on:		ł					
Based on a trend lid not return to historically trende ensure this increa exceeded. Please	review of (previous bi ed higher ti ised trend disposition	ground water ased line valu nan other san is formally in a this CR to E	sampling the trit es until Nov 9, 2 nple points but th vestigated to iden pylronmental Affa	lum results fi 004. Well T-1 his was the fir ntify the caus hirs SNC grou	rom well T- 2 is locate st significa e. No state p.	12 spiked d southwe int increas or regula	to 4.07E6 pCi/l o est of Unit 1 CST n ie since 2001. This itory reporting req	n Nov 7, noat. Thi CR is bi uirement	2003. Tritium levi s well T12 has eing initiated to ts have been
What is affecte	ed:								
ligh tritium conce	entration in	ground water	at Unit 1 CST						
low Discover	ed:			!					······································
Nhile reviewing s	ample tren	ds during AN	I inspection.						
CR Type					Status	·		· · · ·	
033) Program R	elated			;	СОМР				
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Vork Event: Dispatch Com In Apparent Cause INI Recommendati The Apparent Caus Iepartment manage	ment: Determinati on - Departm e Determina ars. The due	on Report was nent Manager r tion has been a date of this Cf	WalkThrough: written to address t nust review disposi pproved by the Act R has been change	No No the Issues In thi tion and appare ing Chemistry d to 12/30/05	Hold: Is CR and Is ant cause pri Manager (JE CAE 5/26/05	No attached in ior to closur 0B). All Act	OPS Review (the Event Descriptions) to the terms have been	Req: on or Failu accepted	No re Scenario field. by the respective
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Condition Report: 2005104789	Status: Transmitted	Entry Date: 04/78/2005	Linit, H1
	Status: Iransmitted	Entry Date: 04/26/2003	Unit: AL
Ground water not MR			
	RECA		
Status: Final Review Required			
Event desc. or failure scenario:		·	
PROBLEM STATEMENT Based on a trend review of ground wate tritium levels spiked to 4.07E6 pCi/l on than other sample points with several s	er sampling from well T12 on the Nov. 7, 2003. Well T12 tritium h spikes in its history, but this was t	southwest side of the Unit 1 CST moat, as historically trended higher values he first significant increase since 2001.	
APPARENT CAUSE(S) AND CAUSE CODI	E(S)		
Why did the ground water tritium in we months in 2003 to a level approximatel	ell T12 spike up by an approximate ly ten times higher than ever seer	e factor of fifteen over the course of six) before?	
 around the Unit 1 CST moat was reanally over 20 years of data shows that the an 1992. The graph also shows what appear to last for several sample period they drop back down slightly above whe Possibilities of why the peaks could be 1) A continuous small leak with occasile piping. 2) A sporadic leak of some nature is or tritium decays and is dispersed in the gradually seeping down to the wells over values than the diluted surrounding gradual provide the sur	lyzed and new trend lines plotted. Iyzed and new trend lines plotted. mount of tritium in the well has be ear to be four peak time frames o ds over the course of anywhere fra- ere they started from. occurring, in order of reasonable p onal higher levels of tritium is occ ccurring from the CST or associate pround the tritium level decreases d 1980's or some of the leaks desc er the years with some isolated p bound water) getting into the wells	The trending graph for the T12 well een increasing in general since about ver that 20 year period. These peaks om six months to two years and then probability are: urring from the Unit 1 CST or associated ad piping on a random basis and as the back to near pre-peak levels. cribed in the historical documentation is sockets of the water (with higher tritium sporadically. However, this scenario	
the original SFP water or water leaks w Why has the tritium in T12 and other w years? Data from six other wells directly aroun frequently as T12, but their data starts through 2004 for the other four wells. was stopped. In 5 of the wells the triti halted. The sixth well (T15) was trendl in tritium which then dropped back dow	vells around the Unit 1 CST moat in the Unit 1 CST were trended. The at the same time and continues the All six wells show elevated levels um appears to be trending upware ling downward until about 2000 ar	oncentration of about 1.6E+07 pCi/I. rended upward over the past twenty These six wells were not sampled as hrough 2002 for two of the wells and of tritium from 1985 until the sampling d from mid 1992 until the sampling was id 2001 where it shows a marked spike	
Possible causes for the increasing trend	ls of tritlum in these seven wells a	are the same as in the first why	
Why has the tritium in the wells around that found in the river?	the Unit 1 CST moat averaged to	vo orders of magnitude or more above	`
The tritium levels for these wells in the database in 1985. This implies the triti for the elevated and increasing tritium introduced into the ground water by so continuously or sporadically over the ye protected area around Hatch, but the ri River water tritium values have ranged	ground water data base show ele lum was first introduced previous over natural levels such as in the me manmade process and may ha ears. It is unknown what the grou liver water tritium values are know from <mda 358="" l.<="" pci="" td="" to=""><td>vated tritium levels from the start of the to this database. The only explanation river water is that the tritium was ave continued to be introduced either and water tritium levels are outside the on all the way back to pre-op days.</td><td></td></mda>	vated tritium levels from the start of the to this database. The only explanation river water is that the tritium was ave continued to be introduced either and water tritium levels are outside the on all the way back to pre-op days.	
CAUSE CODE(S) K5B - Managerial Methods (INPO Code) previous event cause was not adequate): Corrective Action: Corrective ac to prevent recurrence.	tion for previously identified problem or	
BROADNESS REVIEW (Required for QA	Findings, otherwise optional)		
Historical Documentation - excerpts tak	en from a document sent to the s	ite in 2001:	
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	ÇR QA Re	cord Contraction of the second se	
Condition Report: 2005104789	Status: Transmitted	Entry Date: 04/28/200	5 Unit: H
Plant Hatch On-Site Tritium In Ground	water Monitoring		
Introduction: Several questions have been raised co summarizes the history of the program program. It also addresses the quest from the program.	oncerning the Plant Hatch Ground n and details the current samplin ion of whether any wells, specifica	water Monitoring Program. This repor g and reporting requirements for the ally wells P13B and T18 can be droppe	t.
The discussion of the program in this elevated levels of tritium in the on-sit report covers only the history of the s of the program over the past five year	summary is not intended to repor e groundwater samples or on the ampling and reporting commitme rs.	t on the events that contributed to the historical levels of tritium detected. T nts as the program evolved and the st	nis atus
References: 64-CH-ADM-001-OS - procedural sam 64-CH-SAM-004-OS - sampling proce	pling requirements for on-site gro dure	oundwater H-3 wells	
FSAR 2.4-13 Groundwater Reportable Occurrence Report 50-321 Pre-Op REMP Program REMP Reports 1974 through 1983	/1979-021 and all revisions and u	updates through 1984	: · ·
Data sheets HPX-0506 "Release Via U	nplanned Route: Groundwater"		
Discussion Pre-op Through 1985: The Pre-op Radiological Environmenta subsurface drainage ditch, and one of the REMP program and it is not clear completely out of the ordinary. Durin media. Groundwater samples were to Annually Aug 1973 to Jun 1974; Grab	I Monitoring Program (REMP) Incl f-site background location. Techn why on-site samples were include g pre-op both on-site and off-site sken as follows: Grab sample Qua sample Quarterly Jun 74 to Sep	uded two on-site wells, one on-site hically, on-site wells would not be part d in the pre-op. However, it is not samples were taken for several differ rterly Jan 1972 to Aug 1973; Grab sa 1974.	of ent nple:
The 1974 REMP Report, which covered data. An undated memo to file from I stopped because it was not required. during the 4th quarter of 1974 because	d September 12 through Decemb Bill Ollinger stated that the on-site A supplemental REMP report stat se it was not required by the Envi	er 31, 1974, did not include groundwa e groundwater sampling should be that groundwater was not analyzed ronmental Tech Specs (ETS).	ber P
The 1977 REMP Report stated that the sampling but indicated that groundwa circumstance. Although not required, drainage ditch, and three piezometers high" for two of the eight samples (no	e ETS required one indicator and ter samples were only required in samples were collected occasion . The 1977 4th Quarter results v rth outfall and N-7-A). The ETS	one background location for groundwa) the event of an accident or unusual ally from two deep wells, a subsurface vere reported in the REMP report as "v dld not specify a Reporting Level.	ery
The new ETS for Unit 2 went into effe sampling but they did establish a Rep The old Unit 1 ETS which did require (did not include a Reporting Level and environmental impact". In 1978 and elevated tritium levels. Discussion In required for the samples because the the reporting levels. Finally the decis made in order to be conservative. Th be the source of the increased tritium LER 50-321/1979-021 and included th sampling frequency and results through	ct November 16, 1978. The new orting Level for tritium in environ proundwater sampling in the ever required Non-Routine Reports on early 1979, several on-site groun the 1978 REMP report questions on-site wells are not "environmen- sion to submit a Non-Routine Rep e burled open pipe near the Reco levels, was discovered in March the Anomalous Measurement Repo gh June 1979.	Unit 2 ETS did not require groundwate mental water samples of 3.0 E4 pCI/L. It of an accident or unusual circumstar ly in the case of a "significant dwater samples were found to have whether a Non-Routine Report was ntal samples" and should not be subjec ort pursuant to ETS 3.2 and 5.7.2 was mbiner Building, which was determine 1979. This was reported to the NRC a rt. The 1978 REMP report discusses to	it to d to s
Quarterly updates to LER 50-321/197 continued until 1984. The level 3.0 E established by ETS. This was used as therefore not "environmental" sample monitoring program continued to be r groundwater samples were not true R	9-021 provided a report of all sar 4 pCI/L was the Reporting Level for the cut-off level although the sar s. In addition to these reports, the eported in the Annual REMP report EMP samples.	nples that exceeded 3.0 E4 pCi/L and or environmental water samples mples in question were all on-site and he status of the groundwater tritium rts through 1983 although the on-site	
Letter number GM-84-115, dated 2/8, not be reported quarterly or annually, on 12/19/83 where It was determined This letter closed LER 50-321/1979-0 committed that special quarterly upda	/84, from H. C. Nix to the NRC, so pursuant to the ETS. This decisit that the elevated tritium levels of 21 and ended the quarterly updat after would continue to be provide	tated that after 1983 the problem wou on was based on a meeting with the Ni lid not pose an environmental concern tes to the LER, but the letter also d to the NRC.	1d 3C
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These quarterly special reports were sent from L. T. Gurva, Chief Muclear Engineer Georgia Power, to the NRC and provided a report of all samples that were elevated. These reports were submitted from the 1st quarter 1984 to the 1st guarter 1985. Letter number NED-85-592, dated 8/16/05 from Gurva to the NRC, referenced the decision to cease reporting the groundwater data as updates to the LRE or as part of the KRMP after 1983 and announced plans to stop submitting the quarter 1985. Letter number NED-85-592, dated 8/16/05 from Gurva vas to the NRC, referenced the decision to cease reporting during the quarter 1985. Letter number NED-555, dated 9/12/285 from the NRC to Gurva, was records would be maintained. Letter number NED-555, dated 9/12/285 from the NRC to Gurva, vas are proposed to the letter from Gurva stating the intention of stopping the quarterly reports. The NRC allowed that because the intention was not so top the reporting only and not to change the "substance of the program" the proposal was accepted. 1985 to Present: Regular reports are not required as long as the trittum levels remain in the supected Girg C/11 have been detected. In comparison, the highest sample from the past five years was 4.6 E5 D/01. In 1985, when the commitment to confluce the on-site groundwater monitoring program was made, the program was not dearly defined in a procedure. In 1988, the program sample locations and sample frequencies were outlined in procedure 64/4-ADH-001-05 Kev. 16. Dropping a location from the program or changing the frequency of sampling at this location began in 1982 after a condensate demin procedure for AdV-ADH-001-01 Sev. 11. Berogram sample location from the program or sampled in the follow-up to that split. Another well in the wichity of 7138 that is included in the program is NSD. However, samples have been unavaited to Throm the NSD. The few samples that were located at this well wave very low levels, which indicates that the split had of adverated program is NSD. However, s	ondition Report: 200	5104789: Stat	tus: Transmitted	Entry Date: 04/28/2005	Unit: H
Letter number NED-85-592, dated 8/16/85 from Guowa to the NRC, referenced the decision to cease reporting the groundwater data as updates to the LER or as part of the REMP after 1983 and announced plans to stop submitting the quadratery special program would continue and records would be maintained. Letter number 8/5-55, dated 9/12/85 from the NRC to Guicew, was made that although the reporting would stop, the "on-site groundwater monitoring program would continue and records would be maintained. Letter number 8/5-55, dated 9/12/85 from the NRC to Guicew, was a response to he the letter from Course stating the intention of stopping the quartery reports. The NRC allowed that because the intention was to stop the reporting level for on-late groundwater samples and historically values as high as 8 c05 pC/L. Have been detected. In comparison, the highest sample from the past five years was 4.6 E5 pC/L. In 1985, when the commitment to continue the on-site groundwater monitoring program was made, the program was not deady defined in a protecting. In 1985, the program sample locations and sample frequencies managed in accordance with procedure 64CH-ADM-001-05 Rev. 16. Oroping a location from the program or changing the frequency of sampling will require a procedure. In 1985, there are condensate demin proced tank averflowed in the Unit 2 Turbine Building. Well P13B and sixwarai others in the vicinity of rank is to bas was a to be the six of the the second was supple in the follow-up to that gill. Another well will have on diffected trutum neves to that well as the time. Well T18 has been dry since 1986, but prior to that time, the levels were assisted to the follow-up to that six to the intervinement de porting Level does not apply and not special properties. Sixware sixware sixware as the sixware sixware sixware well as the sixware sixware sixware sixware the well six to bas assond aloo books or monoring forgram in the vicinity of T18, which is near text Six T1, was alsovered that tritium levels at	These quarterly special re and provided a report of 1984 to the 1st quarter 1	eports were sent fro all samples that wer 985.	m L. T. Gucwa, Chief Nuclea re elevated. These reports r	ar Engineer Georgia Power, to the NRC were submitted from the 1st quarter	· ·
Letter number 85-4565, dated 9/12/85 from the NRC to Guova, was a response to the letter from Guova stating the intention of stopping the quarterly reports. The NRC allowed that because the intention was to stop the intention of stopping the quarterly reports. The NRC allowed that because the intention was to stop the stopping and no to the angent the "substance of the program the proposal was accepted. In comparison, the highest samples and historically values as high as 8 EOS pC/L have been detected. In comparison, the highest sample from the past five years was 4.6 ES pC/L. If the commitment to continue the on-site groundwater monitoring program was note, the program was not clearly defined in a procedure 6.0 keV. 1. The groundwater sampling program continues to be managed in accordance with procedure 64CH-ADM-001-05 Rev. 1.6. Ortopping a location from the program or changing the frequency of sampling will require a procedure change.	Letter number NED-85-51 the groundwater data as submitting the quarterly stop, the "on-site ground	82, dated 8/16/85 fi updates to the LER special reports as w water monitoring pr	rom Gucwa to the NRC, refe or as part of the REMP after ell. The commitment was n ogram would continue and	erenced the decision to cease reporting r 1983 and announced plans to stop nade that although the reporting would records would be maintained."	
 1985 to Present: Regular reports are not required as long as the tritium levels remain in the expected range. There is no reporting level for on-site groundwater samples and historically values as high as 8 EOS pC/L. Have been detected. In comparison, the highest sample from the past five years was 4.6 ES pC/L. In 1985, when the commitment to continue the on-site groundwater monitoring program was made, the program was not dearly defined in a procedure. In 1988, the program sample location and sample frequencies were outlied in procedure 64CH-ADM-001-05 Rev. 16. Oropping e location from the program or changing the frequency of sampling will require a procedure change. Location P13B has been dry since 1984. Sampling at this location began in 1992 after a condensate demin precoat tank overflowed in the Unit 2 Turbine Building. Well P13B and several others in the vicinity were sampled in the follow-up to that splil. Another well in the vicinity of P13B this to list included in the program is NSB. However, samples have been unavailable at this location since 1993. The few samples that were collected at this well were very low levels, which indicates that the splil had not affected tribuin levels at 12 And been elevated ince hwy of 1999. Although the levels were above 3.0 E4, since these wells are on-site, the environmental Reporting Level does not apply and no special report was required. However, this increases hould be noted and investigated to determine the possible cause. The wells in this area should also be observed more closely to determine if the trend is increasing for the entire area, which could indicate an evel truth source. See the attached table "Samples with Activity Greater Them 3.0, post-press with structures. This is the sample of its vers and the attached graph "Quarterly Samples (1996 to June 2001)" for the trend at well 712. Because of the increase in levels at 712, which is near 718, it is questionable whether location 713 should be dropped from the program.	Letter number 85-4565, the intention of stopping reporting only and not to	dated 9/12/85 from the quarterly report change the "substa	the NRC to Gucwa, was a r s. The NRC allowed that be ince of the program" the pro	esponse to the letter from Gucwa stating ecause the intention was to stop the oposal was accepted.	3
In 1985, when the commitment to continue the on-site groundwater monitoring program was made, the program was not clearly defined in a procedure 46(4-ADP-001-50 Kev. 4. The groundwater sampling morgaring continues to be managed in accordance with procedure 64(2-ADP-001-05 Kev. 16. Oropping a location from the program or changing the frequency of sampling will require a procedure change. Location P13B has been dry since 1994. Sampling at this location began in 1982 after a condensate demin precoat tank overflowed in the Unit 2 Turbine Building. Well P13B and several others in the vicinity were samples have been unavailable at this location since 1993. The few samples that were collected at this well were very now levels, which indicates that the spill. Another well in the vicinity of P13B that is included in the program is NSD. However, samples have been unavailable at this location since 1993. The few samples that were collected at this well were very now levels, which indicates that the spill hand to a faffected trithum levels at that well at that time. Well T18 has been dry since 1998, but prior to that time, the levels were consistently in the E4 pC/L range. In investigating the results of the Groundwater Monitoring Program in the vicinity of T18, which is near the CST-1, it was discovered that tritium levels at 112 has been elvels at 112 has a proceed and investigated to determine the possible cause. The wells in this area should also be observed more closely to determine if the trend is increasing for the entro area, which could indicate an evertima source. See the attached table "Samples that should be dropped from the program. However, T18 has been dry for over 10 years and there are several other wells in the vicinity of ra list of all elvated samples in	1985 to Present: Regular reports are not n reporting level for on-site detected. In comparison	equired as long as t groundwater samp , the highest sample	he tritium levels remain in t les and historically values a e from the past five years w	he expected range. There is no is high as 8 E05 pCi/L have been as 4.6 E5 pCi/L.	
Location P13B has been dry since 1984. Sampling at this location began in 1982 after a condensate demin precoat tank overflowed in the Unit 2 Turbine Building. Well P13B and several others in the vicinity of regime to the special at this location since 1993. The few samples that were collected at this well were very low levels, which indicates that the spill had not affected tritium levels at that well at that the mere sampled in the follow-up to that time, the levels were consistently in the E4 pCl/L range. In investigating the results of the Groundwater Monitoring Program in the vicinity of T18, which is near the CST-1, it was discovered that tritium levels at T12 had been elevels were consistently in the E4 pCl/L range. In investigating the results of the Groundwater Monitoring Program in the vicinity of T18, which is near the CST-1, it was discovered that tritium levels at T12 had been elevels were to associate on the physical non special report was regulered. However, this increase should be noted and investigated to determine the possible cause. The wells in this area should also be observed more closely to determine if the trend is increasing for the entire area, which could indicate a new tritium source. See the attached table "Samples with Activity Greater Than 3.0. E4 pCJL since 1996' for a list of all elevated samples in the past five years and the attached graph "Quarterly Samples (1996 to June 2001)" for the trend at well T12. Because of the increase in levels at T12, which is near T18, it is questionable whether location T18 should be diopped from the program. However, T18 has been dry for over 10 years and there are several other wells in the vicinity to monitor any changes. T18 can be sampled if it seems appropriate, but it may not need to be regularly sampled. In conclusion, the commitment was made to the NRC in 1985 that the groundwater monitoring program would be maintained in order to track the potential movement of tritum from the two distinct areas where it was foundwater monitoring progra	In 1985, when the comm program was not clearly were outlined in procedu managed in accordance v changing the frequency o	itment to continue t defined in a procedu re 64CH-ADM-001-0 with procedure 64CH of sampling will requ	the on-site groundwater mo ure. In 1988, the program s S Rev. 4. The groundwater I-ADM-001-0S Rev. 16. Dro line a procedure change.	nitoring program was made, the sample locations and sample frequencies r sampling program continues to be opping a location from the program or	1 ^{- 1}
 Well T18 has been dry since 1988, but prior to that time, the levels were consistently in the E4 pCi/L range. In investigating the results of the Groundwater Monitoring Program in the vicinity of T18, which is near the CST-1, it was discovered that tritium levels at T12 had been elevated since May of 1999. Although the levels were above 3.0 E4, since these wells are on-site, the environmental Reporting Level does not apply and no special report was required. However, this increases should be noted and investigated to determine the possible cause. The wells in this area should also be observed more closely to determine if the trend is increasing for the entire area, which could indicate a new tritium source. See the attached table "Samples with Activity Greater Than 3.0 E4 pG/L since 1996' for a level tritium source. See the attached table "Samples with Activity Greater Than 3.0 E4 pG/L since 1996' for a level tritium source. See the attached table "Samples with Activity Greater Than 3.0 E4 pG/L since 1996' for a level tritium source. See the attached table "Samples with Activity Greater Than 3.0 E4 pG/L since 1996' for a level tritium source. See the attached table "Samples with Activity Greater Than 3.0 E4 pG/L since 1996' for a level tritium source. See the attached table "Samples with Activity Greater Than 3.0 E4 pG/L since 1996' for any changes. T18 has been dry for over 10 years and there are several other wells in the vicinity to monitor any changes. T18 has been dry for over 10 years and there areas where it was detected. The first area is in the vicinity of the Recombiner Building where an open line was discovered in 1978. The second area is near the CST-1 where pumps and possibly the dyke were found to be leaking in 1982. The groundwater monitoring program may be revised as long as it continues to monitor these areas for possible movement and for increases in tritum levels which could indicate new sources. This program should continue untit werk then NRC commitment is rescinded from and acknow	Location P13B has been of precoat tank overflowed sampled in the follow-up However, samples have to well were very low levels	dry since 1984. Sa In the Unit 2 Turbine to that spill. Anoth been unavailable at , which indicates that	mpling at this location bega e Building. Well P13B and s er well in the vicinity of P13 this location since 1993. Th at the spill had not affected	in in 1982 after a condensate demin several others in the vicinity were 18 that is included in the program is NSB re few samples that were collected at thi tritium levels at that well at that time.	is
Because of the Increase in levels at T12, which is near T18, it is questionable whether location T18 should be dropped from the program. However, T18 has been dry for over 10 years and there are several other wells in the vicinity to monitor any changes. T18 can be sampled if it seems appropriate, but it may not need to be regularly sampled. In conclusion, the commitment was made to the NRC in 1985 that the groundwater monitoring program would be maintained in order to track the potential movement of tritium from the two distinct areas where it was detected. The first area is in the vicinity of the Recombiner Building where an open line was discovered in 1978. The second area is near the CST-1 where pumps and possibly the dyke were found to be leaking in 1982. The groundwater monitoring program may be revised as long as it continues to monitor these areas for possible movement and for increases in tritium levels which could indicate new sources. This program should continue until the written NRC commitment is rescinded from and acknowledged by the NRC. End of Historical Documentation RECOMMENDED CORRECTIVE ACTIONS Much data involving ground water tritium at Hatch exists. The vast amount of data may show other problem areas; especially since Hatch spilled a substantial amount of spent fuel pool water on the ground back in the 1980's and had several other leaks around the CST and recombiner building in the past. Recommendations for corrective actions include: 1) Establish or re-establish a sampling program for all pertinent wells including drinking water wells. Include trigger points for levels of tritium and/or other nuclides in ground water and drinking water which	Well T18 has been dry sli investigating the results it was discovered that tri above 3.0 E4, since these report was required. How The wells in this area sho area, which could indicat E4 pCi/L since 1996" for Samples (1996 to June 2	nce 1988, but prior of the Groundwater tium levels at T12 h e wells are on-site, t wever, this increase build also be observe e a new tritium sour a list of all elevated 001)" for the trend	to that time, the levels werd Monitoring Program in the v ad been elevated since May the environmental Reporting should be noted and invest d more closely to determine rce. See the attached table samples in the past five yea at well T12.	e consistently in the E4 pCi/L range. In vicinity of T18, which is near the CST-1, of 1999. Although the levels were g Level does not apply and no special igated to determine the possible cause. e if the trend is increasing for the entire "Samples with Activity Greater Than 3.0 ars and the attached graph "Quarterly).
In conclusion, the commitment was made to the NRC in 1985 that the groundwater monitoring program would be maintained in order to track the potential movement of tritium from the two distinct areas where it was detected. The first area is in the vicinity of the Recombiner Building where an open line was discovered in 1978. The second area is near the CST-1 where pumps and possibly the dyke were found to be leaking in 1982. The groundwater monitoring program may be revised as long as it continues to monitor these areas for possible movement and for increases in tritium levels which could indicate new sources. This program should continue until the written NRC commitment is rescinded from and acknowledged by the NRC. End of Historical Documentation RECOMMENDED CORRECTIVE ACTIONS Much data involving ground water tritium at Hatch exists. The vast amount of data may show other problem areas; especially since Hatch spilled a substantial amount of spent fuel pool water on the ground back in the 1980's and had several other leaks around the CST and recombiner building in the past. Recommendations for corrective actions include: 1) Establish or re-establish a sampling program for all pertinent wells including drinking water wells. Include trigger points for levels of tritium and/or other nuclides in ground water and drinking water which	Because of the increase i dropped from the progra- the vicinity to monitor an regularly sampled.	n levels at T12, whi m. However, T18 f ly changes. T18 car	ch is near T18, it is question has been dry for over 10 yea h be sampled if it seems app	nable whether location T18 should be ars and there are several other wells in propriate, but it may not need to be	
RECOMMENDED CORRECTIVE ACTIONS Much data involving ground water tritium at Hatch exists. The vast amount of data may show other problem areas; especially since Hatch spilled a substantial amount of spent fuel pool water on the ground back in the 1980's and had several other leaks around the CST and recombiner building in the past. Recommendations for corrective actions include: 1) Establish or re-establish a sampling program for all pertinent wells including drinking water wells. Include trigger points for levels of tritium and/or other nuclides in ground water and drinking water which	In conclusion, the commi be maintained in order to detected. The first area i The second area is near t groundwater monitoring movement and for increa until the written NRC con End of Historical Docume	itment was made to b track the potential is in the vicinity of t the CST-1 where pur program may be rev program may be rev program to the second interval of the second interval of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	the NRC in 1985 that the g movement of tritium from i he Recombiner Building whe mps and possibly the dyke vised as long as it continues which could indicate new s ed from and acknowledged	roundwater monitoring program would the two distinct areas where it was ere an open line was discovered in 1978. were found to be leaking in 1982. The to monitor these areas for possible ources. This program should continue by the NRC.	
Much data involving ground water tritium at Hatch exists. The vast amount of data may show other problem areas; especially since Hatch spilled a substantial amount of spent fuel pool water on the ground back in the 1980's and had several other leaks around the CST and recombiner building in the past. Recommendations for corrective actions include: 1) Establish or re-establish a sampling program for all pertinent wells including drinking water wells. Include trigger points for levels of tritium and/or other nuclides in ground water and drinking water which		TIVE ACTIONS	•		
Recommendations for corrective actions include: 1) Establish or re-establish a sampling program for all pertinent wells including drinking water wells. Include trigger points for levels of tritium and/or other nuclides in ground water and drinking water which	Much data involving grou areas; especially since Ha 1980's and had several o	nd water tritium at atch spilled a substa ther leaks around th	Hatch exists. The vast amount initial amount of spent fuel p ne CST and recombiner build	ount of data may show other problem bool water on the ground back in the ding in the past.	
1) Establish or re-establish a sampling program for all pertinent wells including drinking water wells. Include trigger points for levels of tritium and/or other nuclides in ground water and drinking water which	Recommendations for co	prrective actions incl	ude:		:
	1) Establish or re-establis trigger points for levels o	sh a sampling progra f tritium and/or othe	am for all pertinent wells ind er nuclides in ground water	cluding drinking water wells. Include and drinking water which	

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equire increased monitoring or c 2) Continue researching the arch the tritium to determine if furthe 3) Search historic operational dat and the extent of the tritium to d 4) Determine if past or present u	other actions. (Ch lived ground wate r actions are war ta for events and letermine if furth underground leak	emistry) er tritium data for possible ranted. (Environmental A information which would er actions are warranted. s from the CST and associ	causes and start dates (fairs) help identify possible c (Chemistry) iated piping are the cau	and extent of auses, dates, ause(s) for	
ncreased tritium levels. (Engine	ering)				
Investigation scope/broad	dness review	、 ! 			
s this a repeat event? Ye	es V	Vas Previous RCCA a	dequate? N/A		
Repeat event review:		<u>مى مەرىمە يەرىمە مەرىمە مە</u> 1			
Ground water tritium from the pi 1978. Sporadically over the yea continous general increase in gr	iezometer wells a irs, there has bee ound water tritiur	round the Unit 1 CST hav n some spiking of the triti n in these wells since 199	e shown elevated levels lum levels and there ha	s of tritium since s been a	· · ·
Other train/channei/un	it checked	Other similar (process checked	Other sim	ilar compone
Pencil and Paper narrat	tive	Cause identifie	cation	Apparent	cause
Barrier analysis		Fault tree ana	lysis		
Change analysis		Kepner-Trego	e ,		
Event and causal factor	r flow char.	Other:			
·					
The historical data in the "Ev	ent description	or failure scenario" sec	ction above describe:	s some of the ca	uses for
Cause Dept 1: Corporate -	Environmental Af	fairs	<u></u>		
Cause Dept 2: Hatch - Cher	mistry	1			
Cause Dept 3: Hatch - Engi	ineering Support		a ta nenvant rogurranca		
Group1: Planagenus methoda	(INFO COUCH CO		a to prevent recorrence		
Group2:					
• • • • •					
Group <i>s</i> :					
Group3: Group4:					
Group4:			DueDate	Responsil	bie Dept.
Group4: em Description Section Conc	urrence? R	espon.Person	DueDate	Responsil	bie Dept. AI
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SOUTHERN NUCLEAR PLANT E L HATCH		* *	PAGE 1 OF 1
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Description: 2004 - U-1 radwaste pad moat overflowed from demin. water leak into yard drains.

ADM-0020 REV. 2

21DC-DCX-002-0S

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SOUTHERN RA COMPANY Entry in Street Starter	Nuclear Inagement Procedure	Actions for Poten Contamina	tial Groundwater tion Events	N N F	MP-EN-002 Version 1.0 Page 9 of 9
10 CFR 50).75(o) Leak/S	oill Decommissioning F	Record (R-ty	vpe GG3.100)	
PART 1 - Location	N/Source			u	
Event Date	Plant Name:	Individual Contact N	ame: Check or	ne: Leak?	Spill?
10/01/04	Hatch	Jim Dixon	Ý	′es	NA
Volume (gallons):	Lo	cation of spill/leak		Source of sp	pill/leak
5,610	U-1 Radioad	tive Waste Processing	Pad Demi	n water leaked	through valve
Duration of leak/spi	II: 165 minutes	s See 2004 Effluent	Release Report 1	able 1-6A	
Gamma Activity (uC	Ci/cc)	Tritium Activity (pCi/L)	T	otal Area Imp	acted (ft2)
See 2004 Efflue Release Repor	nt See 20 rt	004 Effluent Release R	eport	Unknov	wn
PART 2 - Event De	escription	•			· · · · · · · · · · · · · · · · · · ·
Outside of Protecte	d Area?	Yes 🛛 No 🗌 Un	known		······································
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ITEN #10 Hatch 2004 Radioactive Effluent Release Rep

1.5 Radiological Impact Due to Liquid Releases

Doses to a Member of the Public due to radioactivity in liquid effluent were calculated in accordance with the Offsite Dose Calculation Manual. Results are presented in Table 1-3A for Unit 1, and 1-3B for Unit 2, for all four quarters.

1.6 Liquid Effluents - Batch Releases

Batch Release information for Units 1 and 2 is summarized in Tables 1-5A and 1-5B, respectively.

Liquid Effluents - Abnormal Releases

On October 1, 2004, a demineralized water line failed in the Unit 1 Radwaste Processing Building and overfilled the moat inside the building. Approximately 5,610 gallons of slightly radioactive water spilled from the moat. Some of the water from the posted contaminated area was absorbed into the ground and pavement surrounding the Processing Building. The remainder of the water entered yard drains in close proximity to the Unit 1 Radwaste Processing Pad. As a conservative measure for this abnormal release, absorption of water into the ground was not taken into account; therefore, 5,610 gallons was used for the discharge volume. The discharge duration was determined to be 165 minutes.

Samples were taken by Chemistry just upstream of where water was entering two affected yard drains. One sample was taken from the north end of the Processing Pad and the other was obtained from the south end of the Processing Pad Trailer. Both samples indicated small amounts of radioactivity with the south end being slightly higher. As a conservative measure, the higher-activity sample was used to calculate the gamma activity released to the yard drains – approximately 6.20 µCi.

Additional sampling was performed at the three outfalls (endpoints) of the affected yard drains for approximately four days after the abnormal release. The results from these samples yielded no identifiable activity. It should be noted, however, that the yard drains' outfalls do not discharge directly to the Altamaha River but to a beaver pond and swamp area located on the eastside of the plant site.

The additional, required calculations (i.e., addition of H-3, Fe-55, Sr-89, Sr-90 and Gross Alpha activities) for determining the actual dose to the public from this abnormal release were performed and yielded a total discharge activity of 6.50 μ Ci. Based on these results, no annual or quarterly release limits were exceeded.

The affected ground (i.e., contaminated dirt) from the abnormal release was excavated and processed as Dry Activated Waste. Table 3-1 reflects the disposal of the dirt.

Abnormal Release information for Unit 1 is summarized in Table 1-6A.

#10 ITEM

Sides, Terry W.

Reagin, Jennifer O. From: Sent: Friday, January 28, 2005 12:10 PM

Sides, Terry W. To:

Subject: Hatch Demin Water Line Spill

Terry, Attached is a preliminary version of the info required by 50.75(g)(1) for the eventual inclusion in the Hatch sitespecific cost study(tentatively set for 2006).

Please provide feedback as to whether you think the info provide is suitable or lacking.

Thanks, Jennifer Reagin X3310/2530

Demineralized water leak at the Unit-1 radwaste processing pad

At approximately 1315 on Friday October 1" a water leak in the Unit-1 radioactive waste processing pad was seen exiting the door of the building. Maintenance personnel immediately notified the Health Physics shift foreman who at that time left to investigate with a Senior Health Physics technician. Upon arrival at the area, around 1330, the Health Physics Foreman notified the Health Physics Manager who was at that time attending the 1300 outage management meeting. The Health Physics Manager arrived at the scene at approximately 1340. At this time, and noticing the extent of the leak, mitigation effort commenced. The Assistant General Manager Plant Operations was notified that a leak had developed and to the known extent of what was occurring. At this time he responded to the scene. HP personnel began surveying the area and all surveys conducted revealed that contaminatiou levels discovered did not meet posting criteria for a contaminated area. However, the area was posted as a precaution in parallel with other activities that were commencing at that time.

Upon noticing that radiation levels in the Unit-1 radioactive waste processing building had not increased due to the water leak and due to the fact that no levels of contamination were above detectable levels on commonly used HP instrumentation, a deduction was made that the water was most likely coming from a 1" demineralized water line that was pressurized inside the room. The radioactive waste support vendor entered the area with HP coverage and isolated the demineralized water line. The leak was stopped around 1400. The vendor then arranged the system so as to pump the water out of the room and into the plant radioactive waste systems therefore draining the room. There is no floor drain associated with this area.

Health Physics personnel in coordination with facilities maintenauce and contract support were working in parallel to the above action to ensure that water leaving the building was mitigated as best as possible. A berm was constructed around one yard drain to slow the amount of water entering and a trench was dug prior to the yard drain to prevent further leakage into the drain. Another yard drain located across asphalt and running cast of the processing facility was also bermed with absorbent material and they absorbent material applied to absorb any water present on the asphalt.

Samples were taken for analysis by HP and Chemistry persouncl. These individuals pulled liquid samples from inside the room, soil samples from outside the room, a liquid sample prior to entering the western most and nearest yard drain and then 2 soil samples from outside the affected area to use as standards. Chemistry personnel were dispatched to where the yard drains exit the plant. These yard drains are sometimes referred to as "outfalls" and continuous sampling was conducted.

The General Manager and the Assistant General Manager Plant Support for Plant Hatch were notified of this event and also responded to the scene. Senior management ensured that all procedures were followed and that any further activities necessary to complete were addressed. Senior management also notified corporate management including the Hatch Duty Manager in Birmingham and the Vice President for Plant Hatch.

All personnel that responded to this event and those that were outside the affected area were surveyed by Health Physics personnel. After being surveyed, all personnel went through the personnel contamination monitors in the plant to ensure that up contamination was present on their clothing. All personnel, including HP personnel that entered the area passed all exit monitors without any alarms.

While the leak cannot be quautified to the exact amount that came from the building a conservative measure is being taken based on the fact that at around 11:15 the Health Physics Manager had been in the area performing a housekeeping walk down of the respirator decon room and the outside areas. At this time no water was present ou the asphalt or outside the building. The building was not entered at this time.

This area is currently posted off and the radioactive waste processing room is locked and controlled by Health Physics.

1

Initial chemistry samples were taken just upstream of where water was entering two affected storm drains. One sample was pulled on the north end of process pad and the other obtained from the south end of the process pad trailer. Both samples indicated small amounts radioactivity with the sample on the south end being slightly higher. The higher activity sample was used to calculate the amount of micro-curies released to the storm drains, approximately 6.2 uCi.

Additional sampling is being performed at outfalls Y22-N022A, Y22-N024A and Y22-N025A (end-points) from the above mention yard drains as shown on the attached page. No activity has yet been identified from these points. Additional sampling will continue to determine if any activity reaches the final outfalls (endpoint). It should be noted that these outfalls Y22-N022A, Y22-N024A and Y22-N025A do not discharge directly to the Altamaha river but to a beaver pond swamp area.

Based on these results no annual or quarterly release limits have been exceeded, although additional calculations are still required to determine actual dose to provide inclusion into the Annual Release Report.

Summary of calculation below.

Estimation of Volume Released: Start of release is based on last time an individual was in this area and observed no leakage from the building (11:15). The end of the release is based on when the demin water supply valve was closed (1400).

Flowrate from demin water line = 34 gpm.

165 mins

Gallons released = 5610 gals

Total sample activity = 2.910E-7 uCi/cc Micro-curies release = 2.910E-07* 5610 gals * 3785 = 6.2 uCi



Sample	Location	Sample Type
Drainage Outfalls (RVUR)	As Labeled	0
River Water	River Upstream of Plant Discharge	Dip sample
U2 Cooling Tower Overflow To Storm Drains 02B	Same Location as Drainage Outfall Y22-N025A	Dip sample
① Take grab samples from flowing stream.		

Minimum Sample Size - 1000 ml

Bottle Type - Poly

MGR-0009 Rev 4

SNC PLANT E. I. HATCH		Pg 16 of 20
DOCUMENT TITLE:	DOCUMENT NUMBER:	Rev/Ver No:
CHEMISTRY MISCELLANEOUS TASKS	64CH-ADM-001-0	22.0
ATTACHMENT 4		Att. Pg.
TITLE: RELEASES VIA UNPLANNED ROUTES (IS	SOTOPIC AND	1 of 1
GROUNDWATER)		

SAMPLING PROCEDURE: 64CH-SAM-004-0

Task	Reference	Operating Conditions	Frequency	Acceptance Criteria	Procedure	Forms (HPX-)
Gamma Isotopic (µCi/ml)	10CFR 50.72 (8) IEN 80-06 IEB 80-10		Quarterly ①	All isotopes meet Environmental MDC (except natural background OR world-wide fallout) ②	64CH-RCL-006-0	0551
Tritium (pCi/L)	ADM	All times	Monthly Aux. Boiler Pipe Chase Sump, Y22-N008A, Y22-N024A, T3, N9B, Y22-N007A, Y22-N012A Quarterly PY5, P15B, T2, T12, P15 Annual T10, T11, T18, MN11, N5B, P13B, T4, T8, T13, T14, T15, T16, P17B, A1, N8B, T5, N10B, N7A, P17A, T6,	>	64CH-SAM-004-0	0506

① Obtain the following samples per 64CH-SAM-004-0, unless otherwise noted:

- Auxiliary Boiler Water ③
- Sewage Treatment Effluent (sample per 64CH-OPS-001-0)
- U1 and U2 RHR Service Water Heat Exchanger "A" and "B" loops
- IF any isotopes are identified other than natural background or world-wide fallout after a re-sample confirmation. THEN contact the HP / Chemistry Supervisor and initiate a Condition Report and specifically record on the Condition Report that a Safety Evaluation be written to satisfy 10 CFR 50.59 and IEB 80-10 (applicable to newly identified contaminated samples). When this condition is related to a previously identified event (for example, Fuel Pool Spill of 1986) and was documented by a 10 CFR 50.59 SCREENING / EVALUATION, an additional 10 CFR 50,59 SCREENING / EVALUATION will NOT be required.
- This is NOT the same sample point as Auxiliary Boiler Chase Sump sample point (for Tritlum).

MGR-0009 Rev 4

SOUTHERN NUCLEAR		
FORM TITLE:		FAGE 1 OF 1
RETRIEVAL CODE SHEET	, 	
••••••	***************************************	***************
DOCUMENT NUMBER:	NMP-EN-002	•
* DATA PACKAGE/FORM NUMBER:	Figure 1	
MPL NUMBER:	N/A	· · · · · · · · · · · · · · · · · · ·
RTYPE:	GG3.100 (DOCUMENT CONTROL USE C	DNLY)
* REFERENCE DOCUMENTS:	NMP-EN-002	*
•	<u></u>	*
KEYWORDS:	10CFR50.75(g)	······
 ★ . 	Leak/Spill Decommissioning Record	*
• TOTAL SHEETS:	2	*
DOCUMENT RETRIEVAL DATE:	8/07/2003	*
*	******	*
ACCEPTABLE		·
RE	VIEWED BY: Durcht G	Hostetla
	DATE: 10-15-0	7
REMARKS: This data is required to be stor	red for the life of the plant by 10CFR50	075(g) and

for Life of Plant+99 by ANI.

Description: 2003 - U-1 CST line going through base slab deteriorated allowing leak to soil.

ADM-0020 REV. 2

21DC-DCX-002-0S

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	So	uthern Nuclear Operating	Company	
SOUTHERN AMAI COMPANY Energy in Serve View Write'	Nuclear nagement rocedure	Actions for Potential Gr Contamination Ev	oundwater vents	NMP-EN-002 Version 1.0 Page 9 of 9
				400
TU CFH 50	.75(g) Leak/5	bill Decommissioning Record	I (H-type GG3.	.100)
Fuent Date	Blant Nome	Individual Content Nome	Chack and Look?	0-1112
Event Date	Hatch	William Duvall	Yes	
0/07/00		Windri Davan	105	
Volume (gallons):	Lo	cation of spill/leak	Source	of spill/leak
Unknown	l u	Jnit 1 CST area	Pipina d	deterioration
Duration of leak/snill	I: Unknown		1	
Gamma Activity (uC	Ci/cc) 1	Fritium Activity (pCi/L)	Total Area	Impacted (ft2)
None detected		Max. 4.07 E+06pCi/L	Ur	hknown
		· · · ·		· .
PART 2 - Event De	scription		, 	······
Outside of Protected	d Area?	Yes 🖾 No 📋 Unknown		
If unknown what a	ictions neede	d to determine?	· ·····	
lf unknown, what a	ictions neede	d to determine?		
If unknown, what a U-1 CST line going f (2003). Tritium in we	through base s	d to determine? Description of event/is slab deteriorated allowing CS d 4.07 E+06pCi/L.	esue ST water to leak out	and get into grour
If unknown, what a U-1 CST line going t (2003). Tritium in we	through base s	d to determine? Description of event/is slab deteriorated allowing CS d 4.07 E+06pCi/L.	sue ST water to leak out	and get into grour
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If unknown, what a U-1 CST line going to (2003). Tritium in we Section of deteriorat	through base s all T12 reached ted piping repla	d to determine? Description of event/is slab deteriorated allowing CS d 4.07 E+06pCi/L. Actions Taken to Stop Spill aced. Nearby monitoring we	ST water to leak out	and get into grour
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If unknown, what a U-1 CST line going f (2003). Tritium in we Section of deteriorat procedure. Act Leak was undergrou a periodic basis as c PART 3 – Commun Condition Report Nu	through bases all T12 reached ted piping replations tions Taken to und and under described in platications	d to determine? Description of event/is slab deteriorated allowing CS d 4.07 E+06pCi/L. Actions Taken to Stop Spill aced. Nearby monitoring we b Clean-up Spill or Leak and the CST concrete base slab ant procedures.	ST water to leak out	and get into grour a routine basis by toring g wells are sample
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If unknown, what a U-1 CST line going f (2003). Tritium in we Section of deteriorat procedure. Act Leak was undergrou a periodic basis as c PART 3 – Commun Condition Report Nu State Agency Notifie (Describe what ager	through bases all T12 reached ted piping replated tions Taken to und and under described in plates hications umber: cation: ncy,	d to determine? Description of event/is slab deteriorated allowing CS d 4.07 E+06pCi/L. Actions Taken to Stop Spill aced. Nearby monitoring we b Clean-up Spill or Leak and the CST concrete base slab ant procedures.	ST water to leak out	and get into grour a routine basis by toring g wells are sample
If unknown, what a U-1 CST line going f (2003). Tritium in we Section of deteriorat procedure. Act Leak was undergrou a periodic basis as o PART 3 – Commun Condition Report Nu State Agency Notifie (Describe what ager when and who)	through bases all T12 reached ted piping replations tions Taken to und and under described in platications umber: cation: ncy,	d to determine? Description of event/is slab deteriorated allowing CS d 4.07 E+06pCi/L. Actions Taken to Stop Spill aced. Nearby monitoring we b Clean-up Spill or Leak an the CST concrete base slab ant procedures. NA NA	ST water to leak out	and get into grour a routine basis by toring g wells are sample
If unknown, what a U-1 CST line going to (2003). Tritium in we Section of deteriorate procedure. Act Leak was undergrou a periodic basis as of PART 3 – Commun Condition Report Nu State Agency Notifie (Describe what ager when and who)	through bases all T12 reached ted piping replations tions Taken to und and under described in platications umber: cation: ncy,	d to determine? Description of event/is slab deteriorated allowing CS d 4.07 E+06pCi/L. Actions Taken to Stop Spill aced. Nearby monitoring we b Clean-up Spill or Leak and the CST concrete base slab ant procedures.	ST water to leak out	and get into grour a routine basis by toring g wells are sample
If unknown, what a U-1 CST line going f (2003). Tritium in we Section of deteriorat procedure. Act Leak was undergrou a periodic basis as c PART 3 – Commun Condition Report Nu State Agency Notific (Describe what ager when and who) NRC Notification (wi	through bases all T12 reached ted piping replations tions Taken to und and under described in platications umber: cation: ncy, hen and who)	d to determine? Description of event/is slab deteriorated allowing CS d 4.07 E+06pCi/L. Actions Taken to Stop Spill aced. Nearby monitoring we b Clean-up Spill or Leak and the CST concrete base slab ant procedures. NA NA	ST water to leak out I or Leak Ils are sampled on a d Long Term Moni Nearby monitoring	and get into grour a routine basis by toring g wells are sample
If unknown, what a U-1 CST line going f (2003). Tritium in we Section of deteriorat procedure. Act Leak was undergrou a periodic basis as c PART 3 – Commun Condition Report Nu State Agency Notific (Describe what ager when and who) NRC Notification (wh	through bases all T12 reached ted piping replations tions Taken to und and under described in platications umber: cation: ncy, hen and who)	d to determine? Description of event/is slab deteriorated allowing CS d 4.07 E+06pCi/L. Actions Taken to Stop Spill aced. Nearby monitoring we b Clean-up Spill or Leak and the CST concrete base slab ant procedures. NA NA NA NA NA Figure 1	ST water to leak out	and get into grour a routine basis by toring g wells are sample

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OUTHERN NUCLEAR			PAGE 1 OF 1
ORM TITLE:			
RETRIEVAL CODE SHEET			
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DOCUMENT NUMBER:	NMP-EN	-002	
DATA PACKAGE/FORM NUMBER:	Figure 1		
	N/A		
		······································	,
RTYPE:	_ <u>GG3.100</u> (DOC	UMENT CONTROL US	SE ONLY)
		000	
REFERENCE DOCUMENTS.		-002	
	<u> </u>		······
	· · · · · · · · · · · · · · · · · · ·	· .	
KEYWORDS:	10CFR50).75(g)	
	Leak/Spil	Decommissioning Ber	ord
	2001000	- Decommodering rice	
TOTAL SHEETS:	2		
DOCUMENT RETRIEVAL DATE:	6/01/2002	2	
*****	**********	*****	******
ACCEPTABLE		UNACCEPTABLE	
RE		BY: Duight	A. Histetta
	י ר בר	F: 10-15-	о л
		·	
EMARKS: This data is required to be sto	red for the	life of the plant by 10CF	R5075(g) and
r Life of Plant+99 by ANI	•		

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ADM-0020 REV. 2

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21DC-DCX-002-0S

•	Southern Nuclear Operating	Company	
SOUTHERN A Nuclear Management Company Genges Sees Not Refer	Actions for Potential Gr Contamination Ev	oundwater vents	NMP-EN-00 Version 1.0 Page 9 of 9
10 CFR 50.75(g) Leak	Spill Decommissioning Record	I (R-type GG3.100))
PART 1 - Location/Source	<u></u>		
Event Date Plant Nam	e: Individual Contact Name:	Check one: Leak?	Spill?
6/01/02 Hatch	Wayne Kirkley	Unknown	Unknow
Volume (gallons):	Location of spill/leak	Source of	spill/leak
NA East	side of Reactor Buildings	Unkne	own
Duration of leak/spill: Unknown		·	
Gamma Activity (uCi/cc)	Tritium Activity (pCi/L)	Total Area Im	pacted (ft2)
Unknown	None	Unkno	own
PART 2 – Event Description	. <u> </u>	· · · · · · · · · · · · · · · · · · ·	
Outside of Protected Area?] Yes 🛛 No. 🗌 Unknown		
If unknown, what actions need	ded to determine?		
	Description of event/is	sue	
2002 Contaminated soil found	on east side of Beactor Buildi	nas while diaging for ne	w Dry Cask
Transportation road. Source unl	nown.		in Dry Ousk
	. :		
	Actions Taken to Stop Spill	l or Leak	· · · · · · · · · · · · · · · · · · ·
No Leaks Identified.			
	i i		
	i .	· .	
Antione Takan	to Cloop up Spill or Look op	d Long Torm Monitori	
Soil was containerized and sent	to redwaste processing. Near	by monitoring wells are	ng sampled op
routine basis by procedure.	to radimaste processiny. Inedi	by monitoring wells are	sampled off
	:		
PART 3 – Communications		<u></u>	
		· · · · · · · · · · · · · · · · · · ·	· · ·
Condition Report Number:		· · · · · · · · · · · · · · · · · · ·	
State Agency Notification:	NA	· ·	
when and who)			
	-) NA		
INDU INOUIICATION (WHEN AND WHO			

	· · · · · · · · · · · · · · · · · · ·
SOUTHERN NUCLEAR	PAGE 1 OF 1
FORM TITLE:	
RETRIEVAL CODE SHEET	
- · · · · ·	
*****	***************************************
•	*
DOCUMENT NUMBER:	NMP-EN-002 *
 DATA PACKAGE/FORM NUMBER: 	Figure 1
MPL NUMBER:	_N/A *
*	•
*	(DOCUMENT CONTROL USE ONLY) *
•	*
* REFERENCE DOCUMENTS:	NMP-EN-002 *
*	· · · · ·
*	•
*	*
* KEYWORDS:	10CFR50.75(g) *
	Leak/Spill Decommissioning Record
* TOTAL SHEETS:	3
	9/17/1998 *
*	*
ACCEPTABLE	UNACCEPTABLE
	DATE: 18-15-07
REMARKS: This data is required to be stor	red for the life of the plant by 10CFR5075(o) and

for Life of Plant+99 by ANI.

Description: 1998 - Unit 2 Circ Water Blowdown Check Valve internal contamination

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ADM-0020 REV. 2

21DC-DCX-002-0S

	So	uthern Nucle	ear Operating	Company		
SOUTHERN A Ma COMPANY Emergin Sure Bar Bart	Nuclear nagement rocedure	Actions f Co	or Potential Grontamination Ev	oundwater vents	NMP-E Versi Page	EN-002 on 1.0 9 of 9
10 CEB 50	75(a) Leek/S		sioning Record	l (B-type G	G3 100)	
PART 1 - Location	/Source					
Event Date	Plant Name:	Individual C	ontact Name:	Check one: Lea	ak?	Spill?
9/17/98	Hatch	S. R.	Hodgins	NA		NA
Volume (gallons):	Lo	 cation of spill/	leak	Sou	rce of spill/le	ak
ΝΔ	LL-2 Circ W	ater Blowdow	n check valve	See	lescription be	alow
Duration of leak/snil		ater biowdowi				
Gamma Activity (uC		Fritium Activity	(pCi/L)	Total A	rea Impacter	d (ft2)
Several hundred c	pm	None			NA	<u></u>
PART 2 – Event De	escription		······································			
Outside of Protected	d Area?	Yes 🛛 No				
If unknown, what a	ictions neede	d to determin	ne?		<u></u> ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	
If unknown, what a U-2 Circulation Wat U-2 Liquid Radwast	er Blowdown o e Discharge lin	d to determin Descript heck valve in he while dilutio	ion of event/is ternally contam on flow was see	inated. Believed cured. (Internal L	caused by b etter from S.	ackup R. Ho
If unknown, what a U-2 Circulation Wat U-2 Liquid Radwast to Tommy Elton abo	er Blowdown o e Discharge lin but 1/2N71-F00	d to determin Descript theck valve in the while dilutio 08).	ion of event/is ternally contarr on flow was see	isue ninated. Believed cured. (Internal L	caused by b etter from S.	ackup R. Ho
If unknown, what a U-2 Circulation Wat U-2 Liquid Radwast to Tommy Elton abo	er Blowdown o e Discharge lin but 1/2N71-F00	d to determin Descript check valve in ne while dilutio 08). Actions Take	ion of event/is ternally contam on flow was see n to Stop Spil	inated. Believed cured. (Internal L i or Leak	caused by b etter from S.	ackup R. Ho
If unknown, what a U-2 Circulation Wat U-2 Liquid Radwast to Tommy Elton abo Contaminated due t	er Blowdown o e Discharge lin but 1/2N71-F00 o back up in d	d to determin Descript theck valve int ne while dilutio 08). Actions Take ischarge wate	ion of event/is ternally contarr on flow was see n to Stop Spil	inated. Believed cured. (Internal L	caused by b etter from S.	ackup R. Ho
If unknown, what a U-2 Circulation Wat U-2 Liquid Radwast to Tommy Elton abo Contaminated due t	er Blowdown c e Discharge lin out 1/2N71-F00 o back up in d	d to determin Descript check valve in the while dilutio 08). Actions Take ischarge wate	ne? ion of event/is ternally contam on flow was see n to Stop Spil r	inated. Believed curød. (Internal L I or Leak	caused by b etter from S.	ackup R. Ho
If unknown, what a U-2 Circulation Wat U-2 Liquid Radwast to Tommy Elton abo Contaminated due t Act None	er Blowdown o e Discharge lin but 1/2N71-F00 o back up in d	d to determin Descript check valve in ne while dilutio 08). Actions Take ischarge wate	ion of event/is ternally contam on flow was see n to Stop Spil	inated. Believed cured. (Internal L I or Leak	caused by b. etter from S.	ackup R. Ho
If unknown, what a U-2 Circulation Wat U-2 Liquid Radwast to Tommy Elton abo Contaminated due t Act None	er Blowdown c e Discharge lin out 1/2N71-F00 o back up in d	d to determin Descript theck valve int ne while dilutio 08). Actions Take ischarge wate	ion of event/is ternally contam on flow was see n to Stop Spil r.	inated. Believed cured. (Internal L I or Leak	caused by b etter from S.	ackup R. Ho
If unknown, what a U-2 Circulation Wat U-2 Liquid Radwast to Tommy Elton abo Contaminated due t Act None PART 3 – Commun	er Blowdown o e Discharge lin but 1/2N71-F00 o back up in d tions Taken to	d to determin Descript check valve in ne while dilutio 08). Actions Take ischarge wate	ion of event/is ternally contam on flow was see n to Stop Spil	inated. Believed cured. (Internal L I or Leak	caused by b. etter from S.	ackup R. Ho
If unknown, what a U-2 Circulation Wat U-2 Liquid Radwast to Tommy Elton abo Contaminated due t Act None PART 3 – Commun Condition Report Nu	er Blowdown o e Discharge lin but 1/2N71-F00 o back up in d tions Taken to bications	d to determin Descript check valve in ne while dilutio 08). Actions Take ischarge wate o Clean-up S Clean-up S	ion of event/is ternally contam on flow was sed n to Stop Spil r, pill or Leak an ter from S. R. H hed)	inated. Believed cured. (Internal L I or Leak	caused by b. etter from S. onitoring	Jackup R. How
If unknown, what a U-2 Circulation Wat U-2 Liquid Radwast to Tommy Elton abo Contaminated due t Act None PART 3 – Commun Condition Report Nu State Agency Notifi (Describe what agen when and who)	er Blowdown o e Discharge lin out 1/2N71-F00 o back up in d tions Taken to hications umber: cation: hcy,	d to determin Descript check valve in the while dilutio 08). Actions Take ischarge wate o Clean-up S Clean-up S Internal Let F008 (attac NA	ion of event/is ternally contam on flow was see n to Stop Spil r. pill or Leak an ter from S. R. H hed)	inated. Believed cured. (Internal L i or Leak	caused by b etter from S. onitoring	ackup R. Hov

DATE: September 17, 1998

Re: Plant E.I. Hatch 1/2N71-F008

FROM: S.R. Hodgins

TO: Tommy Elton

It was recently discovered that unit 2 Circ H2O blowdown check valve 2N71-F008 was internally contaminated. This valve is located in the yard in a valve pit and was previously considered to be uncontaminated. We believe this was caused by discharge of liquid rad waste tanks with no dilution water flow present in the discharge line, allowing undiluted radwaste to back up to the check valve and contaminate it. This mode of discharge was implemented due to the unit 2 dual division service water outage, during which no source of dilution water was available on unit 2. This practice is used on both units, so the potential for contamination of this component exists on unit 1 and 2. For this reason, valve 1/2 N71-F008 and piping downstream to the liquid radwaste discharge line tee should be considered potentially contaminated and so listed on the Plant Decommisioning Plan. Please forward this to the appropriate people so that the Plant Decommisioning Plan can be so revised.

Steve Hodgins

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PLANT E.I. HATCH	·	PAGE 1 OF 1
ORM TITLE: RETRIEVAL CODE SHEET		
****************	******	*******
DOCUMENT NUMBER:	NMP-EN-002	
DATA PACKAGE/FORM NUMBER:	Figure 1	
MPL NUMBER:	N/A	
RTYPE:	GG3.100 (DOCUMENT CONTROL USI	
REFERENCE DOCUMENTS:	NMP-EN-002	
	· .	
KEYWORDS:	10CFR50.75(g)	
	Leak/Spill Decommissioning Reco	ord
TOTAL SHEETS:	7	
DOCUMENT RETRIEVAL DATE:	6/04/1997	
***************************************	*******	**********************
RE	VIEWED BY: Dunht	2. Astetter
•	DATE: 10-15	
EMARKS: This data is required to be stor	red for the life of the plant by 10CFI	R5075(a) and

Description: 1997 - Site Land Fill 7 contaminated pieces of concrete rubble

ADM-0020 REV. 2

21DC-DCX-002-0S

	Sc	uthern Nuclear Operating	Company	
SOUTHERN A Ma COMPANY P	Nuclear anagement rocedure	Actions for Potential Gr Contamination Ev	oundwater /ents	NMP-EN-00 Version 1.0 Page 9 of 9
10 CEB 50) 75(a) Leak/S	nill Decommissioning Record	(B-type GG3.1	
PART 1 – Location	Source	t t		007
Event Date	Plant Name:	Individual Contact Name:	Check one: Leak?	Spill?
6/04/97	Hatch	Deryle Bennett	NA	Yes
Volume (gallons):	Lo	cation of spill/leak	Source of	of spill/leak
NA	<u></u>	Site Land fill	Contaminated	d concrete rubl
Duration of leak/eni				
Gamma Activity (11		Fritium Activity (pCi/L)	Total Area I	Impacted (ft2)
1,000-2,000 dp	m	None		NA
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PART 2 - Event D	escription	······································		·····
Outside of Protecte	d Area? 🛛	Yes 🗌 No 🗌 Unknown		
If unknown, what	actions neede	d to determine?		
If unknown, what Owner Controlled L demolition during re surveillance survey	actions needs and Fill found emodeling of th . The material	d to determine? Description of event/is to have seven pieces of cont le U-1 Radwaste Building we had been surveyed clean priv	aminated concrete ru re found at the site La or to release from the	bble originatin andfill during a WSTSF. The
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Lewis Sumner Vice President Hatch Project Support

ITEM# 5 sefericissere

Southern Nuclear Operating Company, Inc. 40 Inverness Parkway Post Office Box 1295 Birmingham, Alabama 35201

Tel 205 992.7279 Fax 205.992.0341



April 7, 1998

Docket Nos. 50-321 50-366

U.S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, D.C. 20555

> Edwin I. Hatch Nuclear Plant Reply to a Notice of Violation

Gentlemen:

In response to your letter dated March 10, 1998, and according to the requirements of 10 CFR 2.201, Southern Nuclear Operating Company (SNC) is providing the enclosed response to the Notices of Violation associated with Inspection Report 97-12. In the enclosure, a transcription of the NRC item precedes SNC's response.

If you have any additional questions on this subject, please contact this office.

Sincerely,

H. L. Sumner, Jr.

JAW/eb

Enclosures:

- 1. Violation 97-12-02 and SNC Response
- 2. Violation 97-12-05 and SNC Response
- 3. Violation 97-12-06 and SNC Response
- 4. Violation 97-12-07 and SNC Response
- 5. Violation 97-12-09 and SNC Response
- 6. Violation 97-12-10 and SNC Response

HL-5606

9-6038H

U.S. Nuclear Regulatory Commission April 7, 1998

cc: <u>Southern Nuclear Operating Company</u> Mr. P. H. Wells, Nuclear Plant General Manager NORMS

> <u>U.S. Nuclear Regulatory Commission, Washington, D.C.</u> Mr. L. N. Olshan, Project Manager - Hatch

<u>U.S. Nuclear Regulatory Commission, Region II</u> Mr. L. A. Reyes, Regional Administrator Mr. B. L. Holbrook, Senior Resident Inspector - Hatch

HL-5606

Enclosure 4

Edwin I. Hatch Nuclear Plant Violation 97-12-07 and SNC Response

VIOLATION 97-12-07

10 CFR 20.2001(a) requires disposal of licensed material to be made only by transfer to an authorized recipient as provided in section (§) 20.2006, by decay storage; or by release in effluent or as authorized under §§ 20.2002, 20.2003 or 20.2004.

Contrary to the above, as of June 4, 1997, licensed material was not disposed of in accordance with requirements in that seven pieces of concrete rubble contaminated with low levels of Cobalt-60 and Cesium-137 radionuclides were found in the licensee's onsite landfill.

This is a Severity Level IV violation (Supplement IV).

RESPONSE TO VIOLATION 97-12-07

Reason for the violation:

The seven pieces of concrete rubble originated from demolition performed during remodeling of the Plant Hatch Unit 1 radwaste building. From January, 1997 to June, 1997, the waste concrete rubble was moved to the Waste Separation and Temporary Storage Facility for survey and disposition.

Surveys of the concrete rubble were performed prior to its release by taking multiple smears (to detect removable contamination) and by direct frisk of the material. The surveys were performed using two different detectors: a gamma scintillation detector (Ludlum Micro-R meter) and a beta-gamma Geiger-Mueller detector count rate instrument (hand held E-120). The surveys were documented per the applicable site procedures.

In response to an employee concern, a check of material released for disposal outside of the protected area was performed. This check was performed at the site landfill by a Southern Nuclear Health Physics employee who identified and surveyed some concrete rubble in the landfill (identified to be from demolition of some of the radwaste building walls). This material was found to contain about 1000 to 1200 dpm/probe area using similar survey techniques used when the material was released.

The regulation (10 CFR 20.2001(a)) requires that disposal of licensed material to be made only by transfer to an authorized recipient as provided in section (§) 20.2006; by decay storage; or by release in effluent or as authorized under §§ 20.2002, 20.2003 or 20.2004. Enclosure 4

Violation 97-12-07 and SNC Response

In addition, the NRC has published two supplemental guidance documents to aid with the release of potentially contaminated material.

These supplemental guidance documents are IEC 81-07 and IN 85-92. The first document provides guidelines on how much effort was needed to ensure items being released are free of licensed material. It specifies a detection limit for the instruments used to release the material. It does not prescribe release limits. This document sets the minimum required detection limit for fixed contamination at 5000 dpm/100 cm² and for removable contamination at 1000 dpm/100 cm².

The second document, IN 85-92, gave further guidance on what a good monitoring program likely would include. It also defined "no radioactive (licensed) material" to mean no detectable radioactive material.

The cited regulation, as written, prohibits the release of any contaminated material, such that its radioactivity is zero. However, the NRC has previously recognized that meeting the absolute requirement of this regulation is impractical (and unnecessary). As a result, they published the two supplemental guidance documents described above. In IEC 81-07, the NRC states that, "Analytical capabilities are available to distinguish very low levels of radioactive contamination from the natural background levels of radioactivity." However, the NRC has stated that "...these capabilities are often very elaborate, costly, and time consuming making their use impractical (and unnecessary) for routine operations."

The level of contamination found on the pieces of rubble removed from the landfill was found to be within the expected statistical variations of the associated instrumentation when the detectable contamination is near the lower limits provided in IEC 81-07. The Plant Hatch procedural guidance in place at the time is consistent with the IEC 81-07 guidance, and states that "Release surveys for beta-gamma contamination require radiation detection instrumentation to have a lower limit of detection (LLD) of 5,000 disintegrations per minute/100 cm² (dpm/100 cm²) for large area proportional counters or 1000 disintegrations per minute (dpm) per probe area."

The quantity of the identified fixed contamination approximated the detection limit of the instrument. Variations between instruments and personal surveys can realistically produce false negatives during one measurement and a true positive during a subsequent measurement (or vice versa). In other words, when measuring radioactivity at or near the detection limit of any instrument, slight variations above the detection limit are to be expected due to the random nature of radioactive decay and variations in instrument sensitivity. Thus, at the time, SNC believed that the release was performed consistent with the NRC guidance.

HL-5606

Enclosure 4

Violation 97-12-07 and SNC Response

Corrective steps which have been taken and the results achieved:

The seven pieces of contaminated concrete rubble were retrieved from the landfill, and disposed of as radioactive waste.

SNC Health Physics management halted further disposal of concrete from the radwaste building demolition project in the owner controlled landfill. All additional concrete rubble generated from the project has been disposed of as radioactive waste.

SNC Health Physics management has stopped releases of any material from the waste separation facility to the landfill, without prior HP manager approval. This practice will remain in place until such time that release requirements can be clarified.

SNC Health Physics management was counseled on this event to ensure closer management involvement during work of this nature.

Corrective steps which will be taken to avoid further violations:

SNC Health Physics is in the process of clarifying the requirements for release of materials from the plant. Associated procedural enhancements will be in place by August 1, 1998.

Date when full compliance will be achieved;

Full compliance was achieved when the suspect pieces of concrete were removed from the landfill and disposed of as radioactive waste.