

**From:** "Croulet, Donald" <dcroule@entergy.com>  
**To:** "James Noggle" <JDN@nrc.gov>  
**Date:** 12/20/05 3:30PM  
**Subject:** FW: H-3 sources IPEC\_RL\_Comments\_1.xls

Jim,

At today's Spent Fuel Pool status meeting I inquired about our plans to verify that the Unit 1 south curtain drain was unblocked and functioning and also the Unit 2 containment footer drain system and segregation of its outfall for sampling at manhole 5. I was told that a feasibility study is in progress to determine robotics entry points.

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**From:** Croulet, Donald  
**Sent:** Tuesday, December 20, 2005 9:46 AM  
**To:** 'James Noggle'  
**Subject:** FW: H-3 sources IPEC\_RL\_Comments\_1.xls

Jim,

This is the last list I have. I will confirm with Bill Axelson. We will send you an updated version as changes occur to this list.

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**From:** Lavera, Ron  
**Sent:** Thursday, December 08, 2005 5:47 PM  
**To:** Solanto, Robert; Bob Evers; Christopher English; David Smith; Don Leach; Don Mayer; Donald Croulet; Dragos Nuta; Gary Hinrichs; Hank Santis; James Peters; Joe Kulaga; John Skonieczny; Kathy McMullin; Kenneth Morin; Michael Durfee; Michael Rutkoske; Paul Deeds; Richard Colville; Richard Drake; Ron Lavera; Ronald Sachatello; T. R. Jones  
**Subject:** H-3 sources IPEC\_RL\_Comments\_1.xls

To all

This is the known past leakage list that Dennis Quinn and I have compiled, so far. Please let me know about any additions/deletions/changes.

Thanks

Ron

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A/59

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Ron

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Location	Volume (gal)	H-3 (uCi/ml)	H-3 total (Ci)	Potential for Leakage	History of Leakage
U2 FSP	3.00E+05	2.80E-02	3.18E+01	high	1990-1992, 2005
U3 FSP	3.00E+05	3.40E-02	3.86E+01	High	2000 leak from wall from skimmer pump leak onto concrete
U1 West Pool	1.00E+05	4.00E-04	1.51E-01	High	Noticed in 1990-1994 time frame. Initial leakage not contained/collected. On going leakage. Containment process implemented.
U1 Other Pools			0.00E+00	High	leakage not contained/collected. On going leakage. Containment process
U2 RWST	3.50E+05	1.68E-01	2.23E+02		Anecdotal information that it over flowed to the ground on several occasions in the past
U3 RWST	3.50E+05	4.64E-02	6.15E+01		No known significant leakage to the ground.
U2 CVCS Tanks			0.00E+00		Anecdotal information that the area was flooded in the past
U2 Waste Tanks			0.00E+00		Anecdotal information that the area was flooded in the past
U2 MOB			0.00E+00	Med	Anecdotal information that the area was flooded by Waste Collection Tank water, in the past
U3 CVCS Tanks			0.00E+00	Med	Overflows of 31 Waste Tank into tank pit containing 31 WHUT, and 31-33 CVCS HUT's- in late 70's early 80's

U3 Waste Tanks			0.00E+00		31 WHUT tank area flooded. 32 & 33 Tank areas never flooded.
U2 SFP 1990 - 1992 Leak [a]	1.83E+04	2.00E-02	1.39E+00	High	Potential for Tritium contamination of soil.
U2 RWST Overflow (year?)			0.00E+00		
U2 PAB Sump		1.00E-01	0.00E+00	Med	Sump is not lined with stainless steel.
U2 15 Ft. PAB			0.00E+00	Med	Floor was flooded to significant depth in late 1970's early 1980's
U3 PAB Sump			0.00E+00		
U3 to U2 underground waste line - abandoned			0.00E+00		Leaked in 1980s; it was abandoned in place
U3 to U2 Blowdown Transfer Line				High	Known Contamination near the GT between units.
U2 Resin Spill in alleyway next to FSB			0.00E+00	low	Resin spill with relative small volume of water.
U3- room with the rock, had pipe trench from PAB spilling into area below cable tunnel			0.00E+00	High	Known leakage in the 1977-1985 time frame.
U3- area between VC, FSB, PAB, aka Pigeon Pit, unknown leakage			0.00E+00		Known leakage in the 1977-1985 time frame. Extends to building curtain drains and storm sewer system.
a- assume 25 gallons/day x 2 years = 18,300 gallons			0.00E+00		

south of U3 Command Post, had Cs-137, Co-60, others. Removed in ~1980 and stored on hill past met tower			0.00E+00	High	
U2 Blowdown (Past) atmospheric release			0.00E+00		Known operation for years, with primary to secondary leaks.
U2 Blowdown (current) atmospheric release		5.00E-07	0.00E+00		Known operation for years, with primary to secondary leaks.
U2 SG Tube Leak Feb 2000			0.00E+00		Contamination of secondary plant - drains
U3 SG Tube Leak Oct 1989			0.00E+00		Contamination of secondary plant
U3 Operation of Main Steam supply to Auxiliary Steam system.		5.00E-07	0.00E+00	High	Auxiliary steam system drains go to plant drains and storm drain system.
U2 PAB 15' Overflow/Pump to transformer yard		1.00E-01	0.00E+00	High	Anecdotal information that the area flooded or was pumped into the transformer yard, in the past
IP-2 Transformer Yard - Turbine hall condensate drainage				High	On going - Also during years operating with known primary to secondary leakage.
U3 RWST base of Hill contaminated Water stream				High	Source may have been IP-1 leakage
IP-3 41' PAB Sump Pump Dishcharge to storm drain				Low	IP-3 41' PAB Auxiliary Condensate sump pump discharge was aligned to storm drain system in late 1970's to early 1980's. Since locked closed.



Unit - Site Location
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