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Overview of Spent Fuel Pool Issue

Two hairline shrinkage cracks discovered on south wall of spent fuel pool during excavation for new crane

Moisture in the cracks is along a 3' and 9' long section

Immediate actions included an analysis of structural integrity of the spent fuel pool, collection of leakage and radiological sampling of moisture in crack and surrounding earth (inside fuel building)

In-depth Investigation – Bounding the Problem Conducting root cause analysis - a structured, methodical investigation What is the source of the moisture? Is it coming from the spent fuel pool or on-going excavation or is it from previous operations? How much water is leaking? Where is the water going? How can we capture the water? Does the water contain radioactivity? What is the extent of the leakage? What actions are need to confirm the condition of the

 What actions are need to confirm the condition of the spent fuel pool and liner?

In-depth Investigation — Bounding the Problem cont'd Key Actions Taken Performed structural analysis of spent fuel pool Sampled water from cracks for radioactivity Took soil samples nearby to analyze for radioactivity Installed collection system to capture water

- Brought in experts in hydrology and structural engineering
- Sampled existing site monitoring wells





For illustration only

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Investigation Key Dates





Investigation Key Dates

Excavation in Spent Fuel Building Floor
Monitoring and sampling program











- Tritium is a radioactive form of Hydrogen
- Reacts in the environment just like stable hydrogen to form water
- Used in commercial products such as watch dials and exit lights because it can interact with a phosphor to emit light continuously
- Tritium emits a low energy Beta particle
- It is produced in the atmosphere from cosmic rays and in power and production reactors

and second as	Description	Tritium Concentration (microcuries per milliliter)	Comments
	Monitoring Well in Transformer yard	(0.00021) 210,000 pCi/ml	detected in any onsite well 10 X drinking water standard
	Monitoring Wells (2) located south and adjacent to the IP2 turbine building	No Detectable Activity above background	
an an an Arian San an Arian San an Arian	EPA Drinking Water Standard	(0.00002) 20,000 pCi/ml	Permissible level in drinking water
nina kasaan Tigoo ta tot Ligoo ta tot Ligoo ta tata	Maximum level detected in the 5 additional sample points near Unit-3	0.0000016 1600 pCi/ml	10x less than drinking water standard
terneterneterneter en en e	Background tritium levels in U.S. drinking water	(0.0000001 to 0.0000004) 100 -400 pCi/ml	From USEPA Report 42, 1985.

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What do the Numbers Mean?

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- NRC regulations allow smalls amount of radioactivity to be discharged from nuclear power plants
- Discharges are monitored and reported monthly and summarized in annual reports
- Indian Point has been consistently < .1% of our allowable limits

	Federal Limits	IPEC 2005 YTD
Liquid Effluents	3.0 mrem/yr	< .1%
Airborne Effluents	10 mrem/yr	< .1%
Total from sources	all 25 mrem/yr	< .1%
Backgroun radiation	d 360 mrem/yr	Need 2004 results

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