CH2MHILL URS

SPRU Disposition Project

Cheryl Cabbil
URS Global Management & Operations Services

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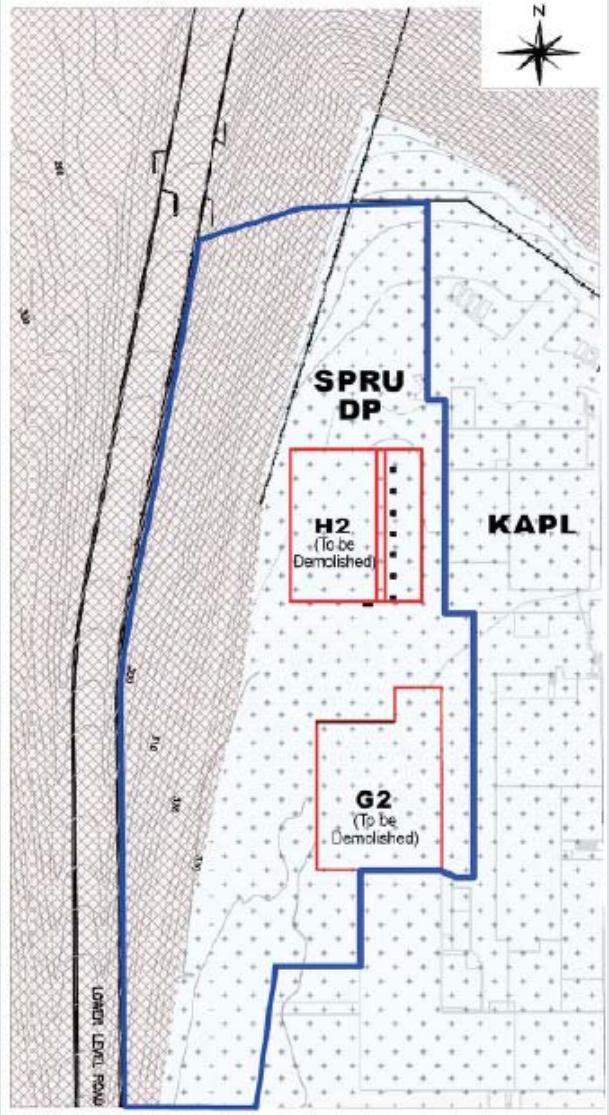
G2 and H2 Buildings Looking North, Prior to Remediation Work

Site Orientation of Buildings H2 and G2

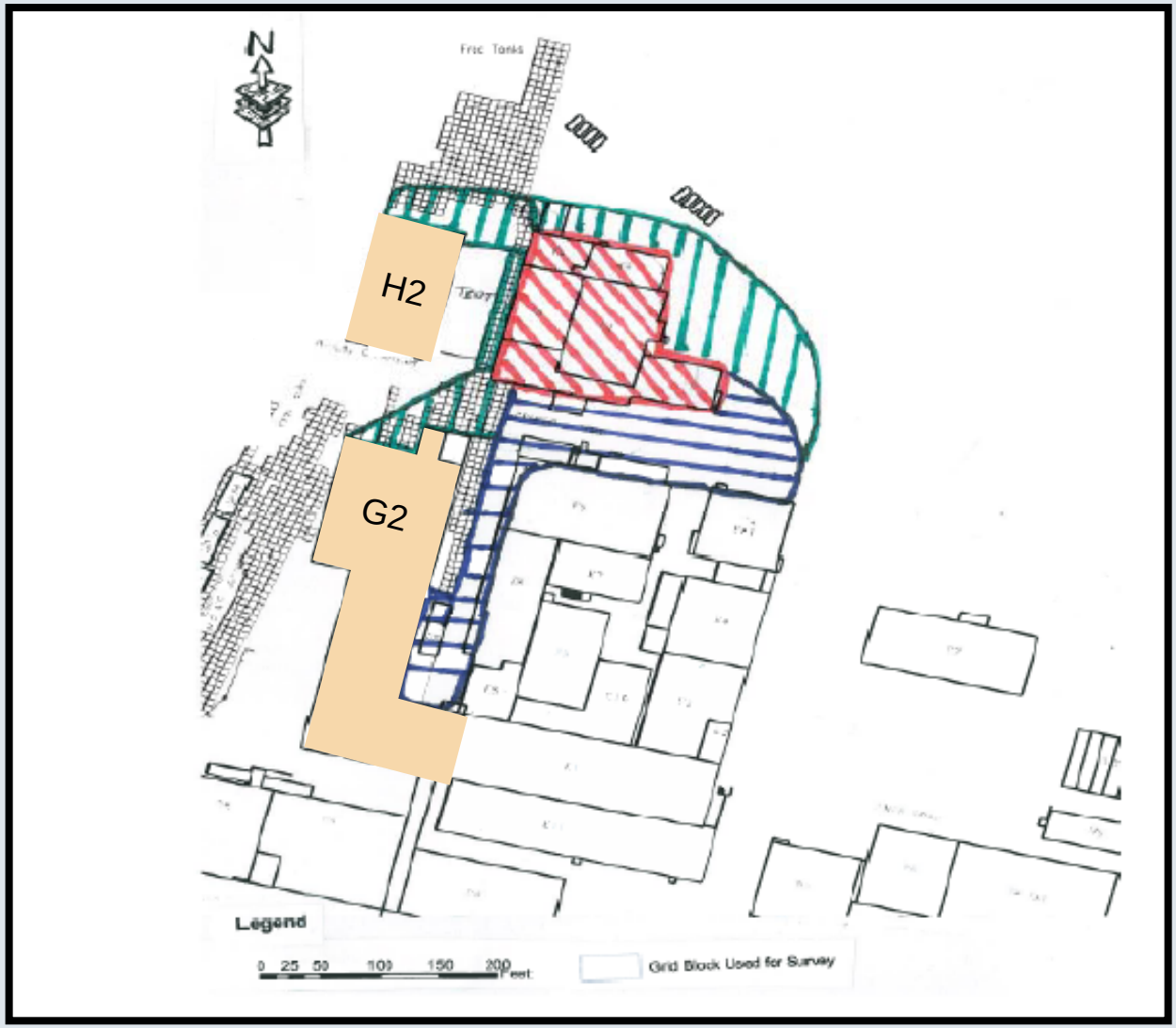


September 29, 2010 Contamination Event

Three process system vessels were removed during demolition activities, and one vessel was size reduced contrary to work plans

- **Low level contamination was found on the shoes of four workers**
- **There was no contamination on the workers' clothing or skin**
- **Additional contamination surveys were conducted within the SPRU project footprint and over the KAPL site**
- **Radiological surveys detected contamination inside the SPRU project boundary and dispersed on the KAPL site in areas adjacent to SPRU**
- **There was no measurable deposition of contamination outside of the KAPL site boundary**
- **There was no impact to worker safety and health as a result of this event**

No Impact to Employees, Public, Environment



Response to Contamination Event

- **Actions to secure and stabilize work site conditions**
  - Suspended invasive work
  - Secured area and expanded radiological boundary postings
  - Performed site contamination surveys and additional air monitoring
  - Applied fixatives to suspected contamination sources debris pile
  - Bermed H2 pad to contain water
  - Placed several layers of heavy duty tarps over previously installed tarps (debris pile and evaporator tanks) for greater protection

Current Site Status – Area Controlled

- The debris pile has been covered and secured to prevent any spread of contamination
- Daily surveys confirm no transferrable contamination is present and existing controls are adequate
- Continuing airborne radioactivity monitoring confirms that there is no release of airborne radioactivity
- There has been no measureable deposition of radioactive contamination outside of the KAPL site

Water Management Event: October 25, 2010

On the evening of 10/25, approximately 630 gallons of untreated Hillside Drain System water from an overflow of the sump was released to a storm sewer culvert into the KAPL storm sewer system.

- Problem was discovered during hourly operator rounds
- The Operations Manager was immediately notified and mobilized personnel to the site
- The issue was an electrical failure

  - The indicator light to sump pump shorted out, causing the main power fuse to blow.
  - Electricians made a temporary repair that allowed pumps #1 and #3 to be brought back in service and stop the overflow of the sump.
  - Water samples taken of the overflow indicated detectable levels of contamination using very sensitive analytical techniques.
  - The levels of radioactivity in the water released are below the amount of naturally occurring radioactivity in the Mohawk River that flows past the Knolls Site in two minutes.

  - Trace volatile organics (VOCs) in the ppb range were potentially discharged during this event since water sampled from the Hillside processing system has shown trace levels in the past. However, the likelihood of discharging detectable VOCs at the subject outfall is extremely low.
  - Modifications have been made to preclude any further untreated water releases into the Mohawk River from the SPRU project
  - Improved communications with regulators

Summary

- ✓ The SPRU events did not impact or represent a threat to human or environmental health to onsite personnel or to the surrounding community
- ✓ We have mitigated the immediate consequences of the events and placed the site in a stable condition
- ✓ We have implemented and are implementing positive and comprehensive corrective actions
- ✓ We have substantially increased site resources and corporate oversight to improve disciplined execution for the duration of the project
- ✓ We have restructured the project organization and senior personnel
- ✓ We are actively developing a revised strategy for safe, effective project completion

URS Corporation is committed to the success of this project

SPRU Disposition Project Path Forward

Dave Lowe

CH2M HILL Project Manager

March 17, 2011

Management/Program Changes

- **New, more experienced, CH2/URS management team in place**
  - Additional experienced D&D and radiological controls work supervisors & workers
- **Implementing additional proven techniques**
  - Project Safety Review Board
  - Hazard Review Board
  - Senior Supervisory Watch
- **Significant enhancements to key programs**
  - Conduct of operations
  - Waste management
  - Radiological controls
  - Environmental
  - Quality assurance
  - Engineering & work control
- **Independent readiness evaluation prior to restart of D&D operations**

D&D Approach Changed

- **Erecting enclosures with HEPA filtered ventilation to maintain inward air flow (prevent contamination release)**
  - Process vessels will be removed whole and shipped as waste (not size reduced) per DOT requirements
  - Decontamination of surfaces to contract levels and demolition within enclosures
  - Waste will be packaged and shipped as it is generated (not accumulated on site)
- **Resubmitting Decommissioning Plan with changes to reflect approved approach**
- **Open air demolition of remaining decontaminated portions of building that cannot be done under the enclosures**
- **Safe, more conservative approach to demolition of nuclear facilities**

Hillside Drain Sump Redundancy

- **Design upgrades**
  - Additional pumps for redundancy
  - Passive overflow drain to tank
  - Added independent power supply and control systems to enhance system reliability
  - Dedicated operator checks sump level every 30 minutes (24/7), to assure system operates properly

Corporate & Personal Commitment

URS and CH2M Hill are committed to the successful completion of this project, and:

"I am personally committed to perform this project safely to ensure the protection of the public, workers and the environment."

-- Dave Lowe

Questions?