FuelCell Energy
3 Great Pasture Road
Danbury, CT 06810
www.fuelcellenergy.com

Environmental Incident Summary

Customer: United Illuminating Company (UI) Location: Amity High School, Woodbridge, CT Event Date: 7/21/2017
Unit: MM21 Model: DFC3000B3 Report Date: 9/21/2017
DEEP Incident No.: 2017-03672 Record #: CSR-0011-B

EVENT BRIEF DESCRIPTION: Release of propylene glycol / water mixture (Mixture) from heating system due to pressure relief valve lifting

SUBSTANCE: Propylene glycol / water mixture (non-hazardous and non-toxic)

VOLUME RELEASED: Less than 50 gallons (estimated by visual observation)

RELEASE BOUNDARIES: Pavement surface inside the fuel cell enclosure, flowed out to the driveway through the enclosure gate and to an underground oil spill containment area (for an oil-filled transformer) in the back corner of the fenced enclosure

SEQUENCE OF EVENTS TIMELINE:

07/21/2017 Prior to 0700 ET	Woodbridge Fire Department attempted to contact FuelCell Energy's (FCE's) Global Monitoring and Control Center (GMCC) by phone of a leak from the power plant.
07/21/2017 ~0700 ET	UI (James Bertini) notifies GMCC by phone of a leak from the power plant.
07/21/2017 ~0711 ET	GMCC notifies FCE Field Service Supervisor (Scott Butcher) by phone
	FCE Field Service Supervisor notifies FCE Field Service Technician (Dan Balnis) by phone
07/21/2017 ~0756 ET	FCE Field Service Technician arrives at site. Representatives of Amity High School (Boiler Room Operator – name unknown, Facilities Director – James Saisa), United Illuminating (Project Manager – James Bertini), CT DEEP (Emergency Response Coordinator – Robert Shuler), Woodbridge Fire Department (Firefighters – names unknown) and Woodbridge Fire Marshall (Joseph Cappucci) on site.
07/21/2017 0804 ET	GMCC shuts down the power plant
07/21/2017 ~0900 ET	FCE Project Manager (Dmitriy Kamenetskiy) arrives at site
07/21/2017 ~1030 ET	FCE EHS Engineer (Mark Benedict) arrives at site
07/21/2017 ~1100 ET	- CT DEEP representative leaves the site - Connecticut Tank Removal (CTR) Operations Manager (Tom Finnucan) arrives at site
07/21/2017 ~1400 ET	- FCE Field Service Supervisor arrives at site - CTR cleanup crew (Project Manager – Julio Garruchen and 4 technicians) arrives at site (START OF CLEANUP OPERATIONS) - FCE Construction Contractor A-Z Corp arrives at site (Mechanical Supervisor – Justin Zurowski Mechanical Apprentice – name unknown, and Electrical Supervisor – Jason Brown)
07/21/2017 ~1800 ET	CTR cleanup crew leaves site (END OF CLEANUP OPERATIONS)

SUMMARY

On 7/21/2017, prior to plant shutdown at 0804 ET, the fuel cell plant was intermittently discharging the Propylene glycol/water mixture through a pressure relief valve down on to the pavement surface inside the fuel cell enclosure. The pavement was wet with the mixture and small quantities flowed out to the driveway through the enclosure gate and to an oil filled transformer underground spill containment area in the back corner of the fenced enclosure. This spill containment area was designed for and will capture an oil release from the transformer, in accordance with state regulations. It was not intended to capture a release of the Propylene glycol/water mixture as this fluid was selected in part due to its non-toxic nature. The Food and Drug Administration (FDA) has classified propylene glycol as an additive that is "generally recognized as safe" for food use. Based on visual observation, the initial estimate of released Propylene glycol solution is less than 50 gallons from the systems' total volume of approximately 450 gallons. The mixture had an odor and travelled to the mechanical room of the school.

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The Fire Department spread speedy-dry on the limited amount of material that flowed out the gate onto the driveway stopping any further advancement of the flow. FCE discussed the cleanup with the CT DEEP Emergency Response Coordinator and committed to bringing CTR, a DEEP-approved Spill Cleanup contractor to clean up the site. The CT DEEP Emergency Response Coordinator was satisfied with this commitment, requested no additional follow-up reporting and left the site.

FCE discussed the cleanup plan with CTR's Project Manager upon his arrival. The plan consisted of initial vacuuming, hose washing and final vacuuming (including speedy dry material removal). When the CTR cleanup crew arrived, cleanup operations commenced per the plan. Removed contents were manifested off-site as non-DOT, non-RCRA Regulated Material (liquid and solid). After removal of the released mixture, the remaining mixture in the heating system was removed. It was drummed, cooled with additional water from a hose, and vacuumed into the truck with the cleanup waste. This completed cleanup operations at ~1800 ET on 7/21/2017.

[END OF REPORT]