

Resource Recovery Facility Corrective Action Plan - COVANTA

Status of 8/28/2018

Item #	Source	Covanta Action Item	Lead	Projected Completion Date
1	Fire Recovery	North & West refuse pit and Residue dry pipe and Fire cannons	Mike Roelkey	COMPLETE
2	Fire Recovery	Tipping floor ceiling clean-up	Mike Roelkey	COMPLETE
3	Fire Recovery	Tipping floor lighting	David Blackmore	COMPLETE
4	Fire Recovery	Roof repair and replacement	Mike Roelkey	COMPLETE
5	Fire Recovery	Lightning strike protection system	Mike Roelkey	COMPLETE
6	Fire Recovery	Siding repairs	TJ Seifert	COMPLETE
7	Fire Recovery	Refuse pit concrete repairs	TJ Seifert	COMPLETE
8	Fire Recovery	Repair Pressure washer	David Blackmore	COMPLETE
9	Fire Recovery	Fix/correct landscaping near storm water pond and other locations that were damaged during the fire event	TJ Seifert	COMPLETE
10	Fire Mitigation	Assure water cannons (total 4) will reach all areas of pit	TJ Seifert/Covanta Safety/Engineering	COMPLETE
10A	Fire Mitigation	Complete engineering study to increase water flow rate of fire monitors to 500 gpm	David Blackmore	COMPLETE
10B	Fire Mitigation	Complete engineering study to modify fire cannons for remote operation of the fire cannons.	David Blackmore	COMPLETE
10C	Fire Mitigation	Submit proposal to County on increased water flow to fire cannons and remote operation of fire cannons	David Blackmore	COMPLETE
11	Fire Mitigation	Investigate an automatic early detection system on the tip floor / pit (i.e. thermal or infra red detection for hot spots or others)	TJ Seifert/Covanta Safety/Engineering	COMPLETE
11A	Fire Mitigation	Submit early detection system proposal to county for review	David Blackmore/TJ Seifert	COMPLETE
11B	Fire Mitigation	Install early detection system	David Blackmore/TJ Seifert	COMPLETE
12	Fire Mitigation	Investigate ventilation equipment/hatches/fans on the tipping floor roof/ walls to clear smoke should another fire occur based on best practices in the industry.	TJ Seifert	COMPLETE
12A	Fire Mitigation	Submit proposal to County on additional ventilation equipment	TJ Seifert	COMPLETE

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12B	Fire Mitigation	Install ventilation improvements	TJ Seifert	DECISION COMPLETE - Not cost effective at this time
13	Fire Mitigation	Report to County/Authority ALL fire system impairments/ NOV's / known system problems as they occur; dedicate time to document and discuss in monthly operations meetings	Mike Roelkey	COMPLETE
14	Fire Mitigation	Schedule periodic drills with MCFRS.	Eric Hildenbrand	COMPLETE
15	Fire Mitigation	Submit an SOPs for fire water response focusing on responsibilities, notifications, location/availability/deployment of containment and control supplies and equipment	David Blackmore	COMPLETE
15A	Fire Mitigation	Develop and submit standard operating procedure to MCFRS. Covanta to refine command structure, coordination and effectiveness	David Blackmore	COMPLETE
16	Fire Mitigation	MDE Site Complaint Response Closeout	Dave Blackmore, Kim McIntyre, Joe Walsh	COMPLETE
17	Fire Mitigation	Investigate waste screening protocols at the Transfer Station to identify hotspots and other potential causes of fires in order to minimize risk of future fires.	County/James Belden / Tom Hickey	COMPLETE
17A	Fire Mitigation	Finalize waste screening protocol at transfer station.	County/James Belden / Tom Hickey	COMPLETE
18	Fire Mitigation	Review and comment on draft RCA and act on appropriate recommendations	Joey Neuhoff	COMPLETE
19	Fire Mitigation	Add additional hose reels		COMPLETE
19A	Fire Mitigation	Add additional fire cannons to reach pit fires at every location	David Blackmore	COMPLETE
20	Fire Mitigation	Evaluate Tipping Floor Video Camera	Dave Blackmore	COMPLETE
21	Fire Mitigation	Storage of waste on the tipping floor, establish limiting conditions precedent to storage of waste on tipping floor.	Dave Blackmore	COMPLETE

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22	Fire Mitigation	Establish bypass triggers while observing existing performance requirements and receiving guarantees	Mark Harlacker	COMPLETE
23	Fire Mitigation	Evaluate fire system preventative maintenance program	Dave Blackmore	COMPLETE
24	Fire Mitigation	Update SOP, Emergency Action Plan and Fire and General Emergency Plan	Dave Blackmore	COMPLETE
25	Recovery Plan	Complete recovery plan work and maintain so that RRF is "Best in Class" facility once again	Joey Neuhoff / Tim Gregan	COMPLETE
25A	Recovery Plan	Complete recovery plan work and maintain so that RRF is "Best in Class" facility once again	David Blackmore	Spring 2019
26	Fire Mitigation	Complete engineering study on fire tank capacity and auto fill capabilities.	Dave Blackmore	COMPLETE
27	Fire Mitigation	Perform infrared camera scan of refuse pit until permanent system installed	Dave Blackmore	COMPLETE
28	Fire Mitigation	Evaluate and improve the "auto load" feature of the crane to allow loading the hopper when visibility is impaired	Dave Blackmore	COMPLETE
29	Fire Mitigation	Track containers so first filled are first emptied	James Belden	COMPLETE
30	Fire Mitigation	Evaluate interim method to provide a back up facility water supply	Covanta	COMPLETE
31	Fire Mitigation	Install air monitoring equipment in crane pulpit.	Eric Hildenbrand	COMPLETE
32	Fire Mitigation	Remove waste from section of pit impacted by the fire	David Blackmore	COMPLETE