

## POST-CLOSURE PLAN FOR EXISTING CCR UNIT

### 40 CFR 257.104

#### SITE INFORMATION

Site Name / Address	DTE Energy Range Road Landfill / 3600 Range Road, St. Clair, MI 48079		
Owner Name / Address	DTE Electric Company / One Energy Plaza, Detroit, MI 48226		
CCR Unit	Landfill	Closure Method and Final Cover Type	Close In-Place Clayey Soil Cover

#### POST-CLOSURE PLAN DESCRIPTION

(c)(1) – Length of post-closure care period.	Post-closure care will be conducted for a period of 30 years as required by 257.104(c)(1), except as provided by 257.104(c)(2).
(c)(2) – If at the end of the post-closure care period the owner or operator of the CCR unit is operating under assessment monitoring in accordance with 257.95, the owner or operator must continue to conduct post-closure care until the owner or operator returns to detection monitoring in accordance with 257.95.	If at the end of the post-closure care period the CCR unit is operating under assessment monitoring, the post-closure care as described in this plan will continue until the CCR unit returns to detection monitoring.
(d)(1)(i) – A description of the monitoring and maintenance activities required in 257.104(b), and the frequency at which these activities will be performed.  257.104(b)(1) Maintaining the integrity and effectiveness of the final cover system, including making repairs to the final cover as necessary to correct the effects of settlement, subsidence, erosion, or other events, and preventing run-on and run-off from eroding or otherwise damaging the final cover system.  (b)(2) – Not Applicable [applies only to new CCR landfills with leachate collection subject to 257.70]  (b)(3) – Maintaining the groundwater monitoring system and monitoring the groundwater in accordance with the requirements of 257.90 through 257.98.	Throughout the post-closure care period, periodic visual observations of the final cover and stormwater system will be performed at least annually for evidence of settlement, subsidence, erosion, or other damage that may affect the integrity and effectiveness of the final cover system. When practicable, visual observations of the final cover will be implemented concurrently when performing required groundwater monitoring activities.  Noted evidence of damage, such as rills, surface cracks and settlement, will be repaired in order to maintain the integrity and effectiveness of the final cover system. Vegetation will be established and maintained on the final cover system, including storm drainage areas, where appropriate, to provide long-term erosion control. Established vegetation and the slope design of the final cover system will prevent potential erosion and damage that may be caused by run-on and run-off.  Repair activities may include, but are not limited to, replacing and compacting soil cover, repairing drainage channels that have been eroded, filling in depressions with soil, regrading, and reseeding areas of failed vegetation, as necessary.  The groundwater monitoring system will be maintained and groundwater will be monitored as required by 257.90 through 257.98. Monitoring wells will be inspected during each groundwater sampling event. Monitoring wells and associated instrumentation will be maintained so that they perform to the design specifications throughout the life of the monitoring program. Groundwater monitoring frequency will be at least semi-annual, except as provided in 257.94(d).
(d)(1)(ii) – The name, address, telephone number and email address of the person or office to contact about the facility during the post-closure care period.	DTE Electric Company, Attn: Robert Lee One Energy Plaza, Detroit, MI 48226 313-235-7815 robert.j.lee@dteenergy.com

**POST-CLOSURE PLAN DESCRIPTION**

(d)(1)(iii) – A description of the planned uses of the property during the post-closure period. Post-closure use of the property shall not disturb the integrity of the final cover, liner(s), or any other component of the containment system, or the function of the monitoring systems unless necessary to comply with the requirements in 40 CFR Part 257, Subpart D. Any other disturbance is allowed if the owner or operator of the CCR unit demonstrates that disturbance of the final cover, liner, or other component of the containment system, including any removal of CCR, will not increase the potential threat to human health or the environment. The demonstration must be certified by a qualified professional engineer, and notification shall be provided to the State Director that the demonstration has been placed in the operating record and on the owners or operator’s publicly accessible Internet site.

Planned uses of the property during the post-closure period are currently unknown, except for post-closure care of the CCR unit.

Post-closure use of the property will not disturb the integrity of the final cover or other components of the containment system, or the function of the monitoring systems unless necessary to comply with the requirements of 40 CFR Part 257, Subpart D. Any other disturbance will be supported by the demonstration required by 257.104(d)(1)(iii).

Following closure of the CCR unit, a notation on the deed to the property, or some other instrument that is normally examined during title search, will be recorded in accordance with 40 CFR 257.102(i). The notation will notify potential purchasers of the property that the land has been used as a CCR unit and its use is restricted under the post-closure care requirements per 40 CFR 257.104(d)(1)(iii). Within 30 days of recording the deed notation, a notification stating that the notation has been recorded will be placed in the facility’s operating record. The notification will be placed on DTE’s publicly accessible CCR Web site in accordance with 40 CFR 257.107.

(d)(3)(i) – The owner or operator may amend the initial or any subsequent written post-closure plan developed pursuant to 257.104(d)(1) at any time.

This initial post-closure plan will be amended as required by 257.104(d)(3) and, as allowed by 257.104(d)(3), may be amended at any time, including as more information becomes available.

(d)(3)(ii) – The owner or operator must amend the written closure plan whenever: (A) There is a change in the operation of the CCR unit that would substantially affect the written post-closure plan in effect; or (B) After post-closure activities have commenced, unanticipated events necessitate a revision of the written post-closure plan.

(d)(3)(iii) – The owner or operator must amend the written post-closure plan at least 60 days prior to a planned change in the operation of the facility or CCR unit, or no later than 60 days after an unanticipated event requires the need to revise an existing written post-closure plan. If a written post-closure plan is revised after post-closure activities have commenced for a CCR unit, the owner or operator must amend the written post-closure plan no later than 30 days following the triggering event.

(d)(4) – The owner or operator of the CCR unit must obtain a written certification from a qualified professional engineer that the initial and any amendment of the written post-closure plan meets the requirements of 40 CFR 257.104.

Certification by qualified professional engineer appended to this plan.

**Certification Statement 40 CFR § 257.104 (d)(4) – Initial Written Post Closure Plan for a CCR Landfill**

**CCR Unit: DTE Energy Range Road Landfill**

I, Scott G. Hutsell, being a Registered Professional Engineer in good standing in the State of Michigan, do hereby certify, to the best of my knowledge, information, and belief, that the information contained in this certification has been prepared in accordance with the accepted practice of engineering. I certify, for the above referenced CCR Unit, that the information contained in the initial written post closure plan, dated October 17, 2016, meets the requirements of 40 CFR § 257.104.

SCOTT G. HUTSELL

Printed Name

10/17/16

Date

