



NRG Texas Power LLC
Limestone Generating Station, Units 1 & 2

Run-On and Run-Off Control System Plan
for the CCR Landfill

Prepared by



Revised by



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Rev. 2

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1 INTRODUCTION AND PURPOSE

Pursuant to 40 CFR 257.81(c), this document provides the revised written run-on and run-off control system plan for NRG Texas Power LLC's (NRG) Limestone Generating Station. Based on the applicability criteria of 40 CFR 257.81(a), the following CCR landfill and drainage feature are addressed herein:

- Unit 004 Landfill, and
- Unit 002 Storm Water Pond.

Unit 004 Landfill functions as a single unit, but it is subdivided into multiple areas. Run-off from the active areas of Unit 004 Landfill is directed to Unit 002 Storm Water Pond via a conveyance ditch within the landfill. Closed areas are directed by a ditch system to Lynn Creek.

In 2025, a portion of the northeast slope of the landfill was closed and the run-off redirected. The active area of the landfill was reduced from 102.35 acres to 75.63 acres which drains to Unit 002.

2 RESULTS & CONCLUSIONS

The run-on and run-off control systems were analyzed for the CCR landfill unit to assess how the landfill control systems managed the storm water run-off during the design storm event. Run-on does not reach the landfill because of the diked edges around the perimeter. The areas of the landfill with topsoil cover direct the non-contact storm water to downcomers, which convey the run-off to the perimeter ditch system.

Storm water run-off from the active landfill is controlled and managed with the use of a ditch system located within the limits of the landfill, conveying landfill run-off to the Unit 002 Storm Water Pond. The ditch system includes three separate culvert installations, two (C2 and C3) located beneath haul roads leading to the landfill, and one (C1) located beneath the north dike of the Unit 002 Storm Water Pond. Although previous calculations showed the culverts slightly undersized for conveying the peak design runoff, with reduction in flow by over 25%, the culverts are adequate for conveyance of the peak flow.

Unit 002 Storm Water Pond has sufficient capacity to collect and manage the storm water run-off from the Unit 004 Landfill during the design storm event without overtopping since the estimated maximum water level from the design storm event remains lower than the top of dike elevation. The storm water run-off control results, including available storage volume in the landfill ditch, are presented below.

CCR Unit 004 Landfill Run-Off Collection	Total Drainage Area (ac)	Design Storm Event ¹	Total Volume Storm Water Run-off (ac-ft)	Unit 004 Landfill Ditch Storage Capacity (ac-ft)	Unit 002 Storm Water Pond Storage Capacity (ac-ft)	Estimated Initial Water Elevation in Unit 002 Storm Water Pond (ft/ac- ft)	Estimated Maximum Water Elevation (ft)	Top of Surface Impoundment Dike Elevation (ft)
Unit 002 Storm Water Pond	84.53	25-year, 24-hour	31.88	1.77	99.17	425.65/45.9	431.00	434.00

1- NOAA PFDS storm event 7.6"
Sargent & Lundy LLC

3 CERTIFICATIONS

This revised run-on and run-off control system plan meets the requirements of 40 CFR §257.81.

I certify that this Document was reviewed and revised by me and that I am a registered professional engineer under the laws of the State of Texas.

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Signature: Bruce M. Daniel

Date: 10/16/26

