



Paducah Gaseous Diffusion Plant
Classification Office/Technical Information Office (TIO)
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Date: 2/23/2021 Date Release is Required: 2/25/2021
Person Requesting Release: Brandon Henderson Phone Number: 270-559-5831
Mailing Address: 5511 Hobbs Road, Kevil, KY 42053
Organization: Site Operations
Document Number: See Attached list Number of Pages: 190
Accession Number (DMC only):
Document Title/Date: Natural Gas Conversion Design Package (repurpose old nitrogen system)

Author: Brandon Henderson Corporate Author:

Media (Check all that apply):

Paper Photo Diskette Drawing Video CD/DVD Report/Letter Other:

Project Subcontract/Task Order: FRNP/DE-EM0004895 (Charge Code: P11020)

Requestor/Purpose of Release: Release to Public (Potential subcontractors)

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ECI Yes No OUI Yes No

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Public Release Internal Release Only Limited Release

Exemption/Reason (Check all that apply)

3. Statutory 5. Privileged 7. Law Enforcement Other
4. Commercial/Proprietary 6. Personal Privacy OPSEC

Other/Comments:

DC David Hayden Date 02-23-2021
TIO1 David Hayden Date 02-23-2021
Reviewing Official2 David Hayden Date 02-23-2021
OPSEC David Hayden Date 02-23-2021

1 Signature of Classification Officer or Technical Information Officer is required for public release reviews.
2 Signature of UONI Reviewing Official is required for documents containing information in UONI subject area.

Natural Gas Conversion Design Package List

1. EV-C-CMD-18-12-R0, Repurposing Nitrogen Distribution Piping for Natural Gas Service (21 pages)
2. SCE-FRNP-2019-M001, R0, Nitrogen Piping Project Pressure Loss - Longest Run Calculation (19 pages)
3. SCE-FRNP-2019-M002, R0, Nitrogen Piping Project Pressure Loss - C-100 Run Calculation (33 pages)
4. SCE-FRNP-2019-S001, R0, Structural Calcs for Natural Gas Line Using Existing N2 Lines (91 pages)
5. C5D-FA5270-B01 REV 0 NATURAL GAS LINE USING EXISTING NITROGEN LINES PARTIAL PLANS AND DETAILS (1 page)
6. C5D-FA5270-B02 REV 0 NATURAL GAS LINE USING EXISTING NITROGEN LINES PIPE BRIDGE AND FOUNDATION DETAILS (1 page)
7. C5D-FA5270-B03 REV 0 NATURAL GAS LINE USING EXISTING NITROGEN LINES SUPPORT DETAILS (1 page)
8. C5D-FA5270-B04 REV 0 NATURAL GAS LINE USING EXISTING NITROGEN LINES DETAILS (1 page)
9. C15-1-S REV 9 PLACEMENT PLAN (1 page)
10. C16-7-M REV 5 PLAN AND PROFILE NITROGEN DISTRIBUTION LINES 3-6-7 AND 8 (1 page)
11. C16-8-M REV 7 PLAN AND PROFILE NITROGEN AND FLUORINE DISTRIBUTION LINES 1-2-4- AND 5 (1 page)
12. C16-9-M REV 9 NITROGEN LOOP AND FLUORINE LINE PLOT PLAN (1 page)
13. C16-10-M REV 4 NITROGEN LOOP (1 page)
14. C16-12-M REV 6 PLAN AND PROFILE NITROGEN DISTRIBUTION LINE 9 (1 page)
15. C19-501-M REV 7 OUTSIDE SERVICES - ABOVE GROUND STEAM COND., DRY AIR, NITROGEN AND FLUORINE (1 page)
16. C45-1-S REV 5 PLACEMENT PLAN PIPE SUPPORTS AND ANCHORS (1 page)
17. C45-201-M REV 4 NITROGEN DISTRIBUTION PLOT PLAN (1 page)
18. M5D-FA5270-B01 REV 0 NATURAL GAS LINE USING EXISTING NITROGEN LINES TIE-INS AT C-600 (1 page)
19. M5D-FA5270-B02 REV 0 NATURAL GAS LINE USING EXISTING NITROGEN LINES DETAILS (1 page)
20. M5D-FA5270-B03 REV 0 NATURAL GAS LINE USING EXISTING NITROGEN LINES PIPE TIE-IN AND ROUTING (1 page)
21. M5D-FA5270-B04 REV 0 NATURAL GAS LINE USING EXISTING NITROGEN LINES C-100 UNDERGROUND PIPING PLANS & DETAILS (1 page)
22. M5D-FA5270-B05 REV 0 NATURAL GAS LINE USING EXISTING NITROGEN LINES C-100 DIRECTIONAL DRILLING UNGRD DETAILS (1 page)
23. M5D-FA5270-B06 REV 0 NATURAL GAS LINE USING EXISTING NITROGEN LINES NOTES AND MECHANICAL BOM (1 page)
24. M7DC60000A003 REV 3 STEAM AND UTILITIES PIPING AT BOILER PAD – PLAN (1 page)
25. M7DC60000A007 REV 3 STEAM AND UTILITIES PIPING AT BOILER PAD - EVALUATION AND DETAILS IV (1 page)
26. S7DC60000A001 REV 4 C-600 AREA PACKAGE BOILERS CONCRETE PAD PIPE SUPPORT LOCATION PLAN (1 page)
27. S7DC60000A005 REV 3 C-600 AREA PACKAGE BOILERS UTILITY BRIDGE DETAIL SHEET 1 (1 page)
28. S7DC60000A006 REV 3 C-600 AREA PACKAGE BOILERS UTILITY BRIDGE DETAIL SHEET 2 (1 page)

29. S7DC60000A007 REV 3 C-600 AREA PACKAGE BOILERS UTILITY BRIDGE DETAIL SHEET 3 (1 page)
30. S7DC60000A008 REV 4 C-600 AREA PACKAGE BOILERS UTILITY BRIDGE AND EQUIPMENT ANCHOR DETAIL SHEET 4 (1 page)