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Kent Scott Site Vice President

10 CFR 50.73

RBG-48103

June 24, 2021

ATTN: Document Control Desk U.S. Nuclear Regulatory Commission Washington, DC 20555-0001

Subject: Licensee Event Report 50-458 / 2021-03-00, "Condition Prohibited by Technical Specifications due to failure to perform Breaker Functional Test"

> River Bend Station – Unit 1 NRC Docket No. 50-458 Renewed Facility Operating License No. NPF-47

In accordance with 10 CFR 50.73, enclosed is the subject Licensee Event Report. This document contains no commitments. If you have any questions, please contact Mr. Tim Schenk at 225-381-4177.

Respectfully,

KCS/dmw

Enclosure: Licensee Event Report 50-458 / 2021-03-00, "Condition Prohibited by Technical Specifications due to failure to perform Breaker Functional Test"

cc: NRC Regional Administrator - Region IV NRC Project Manager - River Bend Station NRC Senior Resident Inspector - River Bend Station Louisiana Department of Environmental Quality Public Utility Commission of Texas

## Enclosure

## RBG-48103

Licensee Event Report 50-458 / 2021-03-00, "Condition Prohibited by Technical Specifications due to failure to perform Breaker Functional Test"

| NRC FORM 366<br>(08-2020)<br>LICEN<br>(See Page 3<br>(See NUREG-<br>https://www.n    |  |   | U.S<br>ENSE<br>age 3 for rec<br>REG-1022, F<br>www.nrc.gov  | U.S. NUCLEAR REGULATORY COMMISSION<br>NSEE EVENT REPORT (LER)<br>for required number of digits/characters for each block)<br>1022, R.3 for instruction and guidance for completing this form<br>rc.gov/reading-rm/doc-collections/nuregs/staff/sr1022/r3/) |   |   |  |  | APPROVED BY OMB: NO. 3150-0104 EXPIRES: 08/31/2023   Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the FOIA, Library, and Information Collection Branch (T-6 A10M), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to Infocollects. Resource@nrc.gov, and the OMB reviewer at: OMB Office of Information and Regulatory Affairs, (3150-0104), Attn: Desk Officer for the Nuclear Regulatory Commission, 725 17th Street NW, Washington, DC 20503; e-mail: <u>oira submission@omb.eop.gov</u> . The NRC may not conduct or sponsor, and a person is not required to respond to, a collection of information unless the document requesting or requiring the collection displays a currently valid OMB control number. |  |   |  |  |  |  |
|--|--|---|---|--|---|---|--|--|---|--|---|--|--|--|--|
| 1. Facili<br>River   | ty Na<br>Bend  | me<br>d Station -   | - Unit 1  |  |   | 2. C<br>05  | 2. Docket Number 3. Page   |  |   |  | 1 05 2  |  |  |  |  |
| 4. Title   | ition  | Prohibiter  |   | obnical Spc  | oificatio   |   | to Epilu   | ra ta P  | orform Brook  |  |   | t  | 101  | 2  |  |
| 5  | Ever   |   | 1 by 100  | I FR Numbe   | 7 8   | 7 Penart Date   |  |  | 8   | Other  | Facilities  | Involved   |  |  |  |
| Month  | Month Day Year Y   |   | Year  | ar Sequential Rev  |   | Month Dav   |  | e<br>Year  | Facility Name   |  | o, other r donnes   |  | 05000  | Docket Number  |  |
|  | 00   |   |   | Numper   | No.   |   |  | 2021   | Facility Name   |  |   |  | 05000  | NA<br>Docket Number  |  |
| 04   | 08   | 2021  | 2021  | -003-  | 00  | 06  | 24   | 2021   | NA  |  |   |  | 05000  | NA   |  |
| 9. Operating Mode<br>1   |  |   |   |  |   |   | 10. Power Level 65   |  |   |  |   |  |  |  |  |
|  |  |   | 11.   | . This Report is   | Submitte  | d Pursuar   | nt to the Re   | quireme  | nts of 10 CFR §:  | (Check all ti  | hat app   | ly)  |  |  |  |
| 10   | 10 CFR Part 20 20.2203(a)(2)(vi)                                   |   |   | □ 50.3   | 36(c)(2)  |   | 50.73(a)(2)  | □ 50.73(a)(2)(x)   |   |  |   |  |  |  |  |
| 🔲 20.2201(b)   |  |   | C   | ] 20.2203(a)(  | ☐ 50.46(a)(3)(ii)   |   | )  | 50.73(a)(2)(v)(A)  |   | 10 CFR Part 73   |   |  | rt 73  |  |  |
| 20.2201(d)   |  |   |   | ] 20.2203(a)(  | 50.6  | 69(g)   |  | 50.73(a)(2)(v)(B)  |   | □ 73.71(a)(4)  |   |  |  |  |  |
| 20.2203(a)(1)  |  |   | C   | ] 20.2203(a)(4   | 50.7  | 50.73(a)(2)(i)(A)   |  | 50.73(a)(2)(v)(C)  |   | 73.71(a)(5)  |   |  |  |  |  |
| 20.2203(a)(2)(i)   |  |   | 1   | 10 CFR Pa  | ⊠ 50.73(a)(2)(i)(B)   |   | (B)  | 50.73(a)(2)(v)(D)  |   | ☐ 73.77(a)(1)(i)   |   |  |  |  |  |
| 20.2   | 203(a  | ı)(2)(ii)   |   | ] 21.2(c)  | 50.73(a)(2)(i)(C)   |   | (C)  | 50.73(a)(2)(vii)   |   | 73.77(a)(2)(i)   |   |  |  |  |  |
| ☐ 20.2203(a)(2)(iii)   |  |   |   | 10 CFR Pa  | 50.73(a)(2)(ii)(A   |   | )(A)   | 50.73(a)(2)(viii)(A)   |   | 73.77(a)(2)(ii)  |   |  |  |  |  |
| 20.2203(a)(2)(iv)  |  |   |   | ] 50.36(c)(1)(i  | 50.73(a)(2)(ii)(l   |   | )(B)   | 50.73(a)(2)(viii)(B)   |   |  |   |  |  |  |  |
| 20.2203(a)(2)(v) 50.36(c)(1)(ii)(A)  |  |   |   |  |   | 50.7  | □ 50.73(a)(2)(iii) □ 50.73(a)(2)(ix)(A)  |  |   |  |   |  |  |  |  |
| Oth  | er (Sp   | ecify here, ir  | 1 Abstract  | t, or in NRC 3   | 66A).   | 12 1 10   |  | ntaat fa   | r this I ED   |  |   |  |  |  |  |
| Licensee   | Contact  | 1   |   |  |   | 12. LIC   | ensee Co   | ntact 10   | I UIIS LER  |  | Phor  | e Number (Ir   | nclude Area (  | Code)  |  |
| Tim S  | chen   | k, Manage   | ər – Reç  | gulatory As  | surance   | <b>}</b>  |  |  |   |  | 225   | 5-381-41   | 177  |  |  |
| Caus   | e  | System  | Compone   | 13. Cor<br>ent Manufa  | nplete One  | e Line for (<br>Reportable  | each Com   | Cause  | allure Described in<br>System   | Compone  | ent   | Manufact   | urer R   | eportable To IRIS  |  |
| NA   |  | NA  | NA  | N/   | 4   | NA  |  | NA   | NA  | NA   |   | NA   |  | NA   |  |
|  |  | 14. Supple  | mental F  | teport Expec   | ted   |   |  |  |   |  |   | Month  | Day  | Year   |  |
| No Yes (If ves, complete 15, Expected Submi  |  |   |   | nission Da   | ate)  | 15  | 15. Expected Submission Dat  |  |   | NA   | NA  | NA   |  |  |  |
| 16. Abst<br>On A<br>division<br>start.<br>HVK-<br>functi<br>conno<br>chille<br>The c | ract (L<br>pril 0<br>ons 0<br>Con<br>CHL<br>onal<br>ect p<br>r whi | imit to 1560 spa<br>18, 2021 at<br>of Control<br>trol Buildir<br>.1D did no<br>test had r<br>osition fol<br>ile it was r<br>e of the ev | aces, i.e., a<br>t 09:26<br>Building<br>ng Chille<br>t start t<br>not bee<br>lowing 1<br>not oper | pproximately 15<br>CDT, Rive<br>g Chilled W<br>ed Water v<br>because the<br>n performe<br>tagout rest<br>rable.<br>s a gap in  | single-space<br>r Bend<br>Vater fro<br>vas rest<br>e supply<br>d to ver<br>oration<br>human | ed typewri<br>Station<br>om Divis<br>cored to<br>y break<br>rify prop<br>on Mar | tten lines)<br>was op<br>sion 1 to<br>service<br>er positi<br>per oper<br>ch 30, 2 | erating<br>Division<br>in acco<br>on swi<br>ation a<br>021. T<br>Correct | at 65% reaction 2, Control<br>cordance with<br>tch contacts of<br>fter HVK-CHI<br>his caused H  | tor power<br>Building (<br>station pr<br>did not coi<br>_1D suppl<br>VK-CHL1<br>clude prod | . At th<br>Chiller<br>rocedu<br>nnect.<br>ly brea<br>D to b | at time,<br>D (HVk<br>ures at 0<br>A requi<br>aker was<br>be aligne<br>e revisic | while a<br><-CHL1<br>)9:38 Cl<br>ired breased<br>ired breased<br>ire | Iternating<br>D) failed to<br>DT.<br>aker<br>d to the<br>e standby |  |

| C FORM 366A  | U.S. NUCLEAR REGULA  | TORY COMMISSION  | APPROVED BY OMB: NO. 3150-0104   | 1            | EXPIRES: 08/31/2023  |                           |  |  |  |
|--|--|--|--|--------------|----------------------|---------------------------|--|--|--|
| (08-2020)<br>(See NUREG-10<br>https://www.n  | LICENSEE EVENT RI<br>CONTINUATION S<br>122, R.3 for instruction and guidance frc.gov/reading-rm/doc-collections/nur  | EPORT (LER)<br>SHEET<br>for completing this form<br>regs/staff/sr1022/r3/) | Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the FOIA. Library, and Information Collection Branch (T-6 A10M), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to Infocollects. Resource@nrc.gov, and the OMB reviewer at: OMB Office of Information and Regulatory Affairs. (3150-0104), Attn: Desk Officer for the Nuclear Regulatory Commission, 725 17th Street NW, Washington, DC 20503; e-mail: oira submission@omb.eop.gov. The NRC may not conduct or sponsor, and a person is not required to respond to, a collection of information unless the document requesting or requiring the collection displays a currently valid OMB control number. |              |                      |                           |  |  |  |
| 1. FACILITY NAM  | ME   | 2. DOCKET  | NUMBER 3. LER NUMBER   |              |                      |                           |  |  |  |
| River Bend Si  | tation – Unit 1  | 05000-458  |  | YEAR<br>2021 | SEQUENTIAL<br>NUMBER | REV<br>NO.<br>- <b>00</b> |  |  |  |
| NARRATIVE  |  | <u>]</u>   |  |              |                      |                           |  |  |  |
| EVENT DES<br>On April 08, 3<br>Chiller D (HV<br>Chilled Wate<br>A required br<br>when HVK-C<br>resulted in ec<br>condition exis<br>3.7.7 Control<br>Action to be i<br>Timeline of e<br>03/12/2021 0<br>03/30/2021 1<br>04/08/2021 2<br>This report is  | EVENT DESCRIPTION<br>On April 08, 2021 at 09:26 CDT, River Bend Station was operating at 65% reactor power. At that time, Control Building<br>Chiller D (HVK-CHL1D) failed to start while alternating divisions of Control Building Chilled Water (KM). Control Building<br>Chilled Water was restored to service in accordance with station procedures at 09:38 CDT.<br>A required breaker functional test, which would have verified HVK-CHL1D (CHU) operability, had not been performed<br>when HVK-CHL1D supply breaker was racked to the connect position following tagout restoration. This oversight<br>resulted in equipment required by Technical Specifications to be placed in standby without being verified Operable. This<br>condition existed from March 30,2021 at 15:32 CDT until this event occurred on April 08,2021. Technical Specification<br>3.7.7 Control Building Air Conditioning (CBAC) System 72-hour allowed outage time was exceeded and the required<br>Action to be in Mode 3 within 12 hours was not met.<br>Timeline of events:<br>03/12/2021 07:39 - HVK-CHL1D supply breaker tag removed and racked to the connect position.<br>03/30/2021 15:32 - HVK-CHL1D was placed in standby<br>04/08/2021 09:26 - HVK-CHL1D failed to start during Divisional Swap<br>04/28/2021 21:23 - Discovery date - Past Operability Evaluation Complete. |  |  |              |                      |                           |  |  |  |
| SAFETY ASSESSMENT<br>There were no actual nuclear or radiological safety consequences due to this event. This event was of minimal<br>significance to the health and safety of the public. The Control Building Chilled Water System was procedurally restored,<br>and control building temperature margins were not challenged.   |  |  |  |              |                      |                           |  |  |  |
| EVENT CAUSE<br>This event was caused by a gap in human performance. Senior Reactor Operators (SRO) failed to ensure completion of<br>the required functional test due to perceived time pressure. The SRO authorizing the tagout assumed the breaker<br>functional would be added to the Limiting Condition of Operability (LCO) when the tagout was removed. The SRO<br>authorizing the tagout for removal assumed the breaker functional was added to the LCO already. Neither SRO validated<br>their assumptions. |  |  |  |              |                      |                           |  |  |  |
| All other equipment associated with the tagout was checked and no additional missed breaker functional tests were discovered. HVK-CHL1D was successfully tested following an adjustment to the supply breaker.   |  |  |  |              |                      |                           |  |  |  |
| CORRECTIVE ACTIONS<br>Operations procedure guidance will be revised to require adding the breaker functional test to the LCO separate from the<br>tagout when the tag is hung. The intent is to standardize when every SRO adds required breaker functionals to LCOs.<br>(Completion tracked by Corrective Action)   |  |  |  |              |                      |                           |  |  |  |

An Operations Departmental briefing on this event will be developed and distributed. The intent is to ensure department personnel are aware of what occurred so it can be avoided in the future. (Completion tracked by Corrective Action)

PREVIOUS SIMILAR EVENTS None