| 1. | Owner | | | | Date _04/06/07 | | | | | |
|----------|--------------------|-----------------------------|---|---------------------------------------|--|---------------|--|--|--|--|
| | 4300 W | infield Road, War | Name r <mark>enville, IL 6055</mark> | 5 | Sheet 1 | | of1 | | | |
| 2. | Plant | Byron Nucle | Address ar Power Statio | n | Unit 00 | | | | | |
| | 4450 N. | German Church i | Name Road, Byron, IL Address | 61010 | Work Order No. 00790202-01 Repair Organization, P.O. No., Job No., etc. | | | | | |
| 3. | Work Po | erformed by By | I | Type Code Symbol Stamp Not Applicable | | | | | | |
| | 4450 N. | German Church I | Name Road, Byron, IL Address | 61010 | Authorization No. Not Applicable Expiration Date Not Applicable | | | | | |
| 4. | Identific | ation of System | SX ESSENTIA | L SERVICE \ | WATER - SPARE AS | SEMBL | Υ | | | |
| 5. 6. | (b) App (c) Sec | ction XI Code Case | ection XI Utilized s used, No. | d for Repairs one | 74 Edition, W/75 or Replacement Cor | nponent | | | | |
| | ame of | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Corrected, Removed, or Installed | ASME Code Stamped (Yes or No) | | |
| | DISC | VELAN ENG. LTD. | S/N: 4971 | N/A | CAT ID 1393419-1 | 2005 | INSTALLED | YES | | |
| | | | | | | | | | | |
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| 7. | Descript | ion of Work TA | CK WELD VALV | E DISC TO D | DISC UNION AND R | ETURN | TO STORES. | | | |
| 3. | Test Cor | nducted: Hydrosi Other [| | eumatic re N/A | Nominal Operatir | _ | | empt ⊠ ºF | | |

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| irements of the ASME |
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| 5/14 , 20 07 |
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| nd Pressure |
| HSB CT |
| during the period |
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| expressed or |
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| 's Report. |
| 's Report. ny personal ection. |
| 's Report. ny personal |
| |

| DOCUMENT NO - | | DEV NO. O | _ |
|---------------|-----|-------------|---|
| DOCUMENT NO.: | 9.0 | REV. NO.: 0 | |
| | | | |

| 1. (| Owner _ | Exelon Nuclea | | | Date <u>04/08/07</u> | | | | | | |
|-----------------|---|------------------------------|-------------------------|-------------------|--|-------|--|--|--|--|--|
| _4 | 1300 Winf | ield Road, Wa | | | Sheet1 of1 | | | | | | |
| 2. F | Plant I | | Address Power Station | | Unit 02 | | | | | | |
| | | | Name | | | | | | | | |
| _4 | 1450 N. G | | Road, Byron, Address | <u> L</u> | Work Order No. 00827538 - 01 Repair Organization, P.O. No., Job No., etc. | | | | | | |
| | | | | | | | | | | | |
| 3. V | Nork Perfo | ormed by <u>S</u> | Shaw/Stone & V Name | <u>Vebster</u> | Type Code Symbol Authorization No. | | Not Applic Applicable | able | | | |
| 3 | 86400 S. E | ssex Road, W | ilmington, IL 6 | 0481 | Expiration Date | | pplicable | | | | |
| | | | Address | | · | | | | | | |
| 4. le | dentification | on of System | ESSENTIAL | SERVICE WA | TER [SX] | | | | | | |
| | | | - | | 1986 Edition/198 | | • | | | | |
| | | | | | 19 74 Edition, S | | | Code Case | | | |
| • | | n XI Code Cas | | i for Hepair/He | placement Activity | 2001 | Edition / 2003 | Addenda | | | |
| • | • | on of Compone | ` ' | | | | | | | | |
| Nai | me of | Name of | Manufacturer | National Board | Other | Year | Corrected, Removed, or Installed | ASME Code Stamped (Yes or No) | | | |
| Com 4" Outle | ponent | Manufacturer Consolidated | Serial No. | No. | Identification 2SX32A-4" | Built | | | | | |
| Run Wel | | Power Supply | HT#2016ANR | N/A | Cat ID 1414497-1 | 2007 | Installed | No | | | |
| 4" Gate | Valve | Flowserve | S/N: BC465 | N/A | 2SX035 Cat ID 1414079-1 | 2006 | Installed | Yes | | | |
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| 7. D | escription | of Work A | DD 4" DRAIN LII | NE AND 4" VAL | VE TO LINE 2SX13 | A-36" | | | | | |
| | | | | | | | | | | | |
| B. To | Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt Conducted: Other Pressure 90 psi Test Temp. 67 °F | | | | | | | | | | |

| | WORK | ORDER: 0 | 100213 | 30-01 | | | | | | | |
|--|--|--|--|---|--|--|--|--|---|--|--|
| | | | Ap | plicable | Manufa | cturer's | Data Re | eports to | be atta | ched | |
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| | | | CE | RTIFI | CATE C | F COM | PLIAN | CE | | | |
| rtify that tl | ne statem | ents made | in the | report | are corre | ect and ti | nis conf | orms to t | the requ | uirements | of the ASM |
| Section > | CI. | | | | | | | | | | |
| Code Sym | bol Stam | р | | | | N | ot Appl | icable | | | |
| cate of Au | thorizatio | n No. | | | | | Not Ap | plicable |) | | |
| d | Δ | SAD | <u> </u> | RRR | Con | r.l | | | Date | 5/18 | , 20 _ 07 |
| | | Own | er or Ow | ner's De | signee, Tit | le | | | | | • |
| | V | | | | | | | | | | |
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| | | CE | RTIF | CATE | OF INS | ERVIC | E INSP | ECTION | N | | |
| | | | | - | iceund l | | | | Dailes | and Denna | |
| e unders | gned, ho | ding a vali | d comr | mission | issueu i | by the Na | ational E | Board of | Poller s | and Press | ure |
| | • | ding a vali the State | | • | | llinois | | d employ | | | |
| | ctors and | _ | or Prov | vince of | · | Ilinois | an | d employ | yed by | HSB (| СТ |
| ssel Inspe Hartfor | ctors and | the State | or Prov | vince of e comp | onents o | Illinois described | and in this | d employ Owner's | yed by Report | HSB (| CT ne period |
| Sel Inspe Hartford | ctors and d, CT r | the State ave inspectors 5.2/. 0 | or Prov cted the | vince of e comp , and | onents on the state that | Illinois described at to the l | and in this pest of n | d employ Owner's ny knowl | yed by Report ledge a | HSB (t during the nd belief, | CT ne period |
| Hartford 15.03 Owner ha | ctors and d, CT to as perform | the State have inspection of the State have inspection of the state of | or Prov cted the 2 7 nations | vince of e comp , and s and ta | oonents of state that ken corr | Illinois described at to the t ective m | and in this best of near the contract of the c | d employ Owner's my knowl s describe | yed by Report ledge a | HSB (t during the nd belief, | CT ne period |
| Hartford 25.03 Owner had | ctors and d, CT reference to the contract of t | the State have inspect 5.2/. oned examination with the recommendation. | or Provincted the 2.7 mations quirem | vince of e comp , and s and ta ents of | oonents of state that ken corr the ASN | described to the bective made Code | and in this pest of neasures, Section | d employ Owner's ny knowl s describe n XI. | yed by Report ledge a ed in th | HSB (t during the nd belief, is Owner' | CT ne period |
| Hartford 15.03 Owner had bort in according the | ctors and d, CT r to r es performed ance residence resid | the State cave inspections of the State of t | or Provinced the 27 mations quirem the lns | vince of e comp , and s and ta ents of spector | oonents of state thanken corr the ASM nor his e | described at to the lective made Code employer | and in this pest of neest of neest of neest of neest of neest or neest of n | d employ Owner's ny knowl s describe n XI. any war | yed by Report ledge a ed in the | HSB (t during the nd belief, is Owner' expressed | CT ne period 's |
| Hartford 25.03 Owner had bort in accompling the blied, conditions | ctors and d, CT r to as perform cordance is certificate erning the | the State have inspected as a state of the s | or Provinced the province of t | vince of e comp , and s and ta ents of spector nd corre | oonents of state that the ASM nor his ective me | described at to the trective made Code employer easures | and in this pest of neasures , Section makes describe | d employ Owner's my knowl s describe n XI. any war | yed by Report ledge a ed in the ranty, e | HSB (t during the nd belief, is Owner' expressed r's Report | CT ne period 's I or |
| Hartford A5.03 Owner had bort in according the died, conditions, | ctors and d, CT h to h as perform cordance is certificate erning the neither the | the State pave inspectors of the State of the relate neither the examinatine inspectors. | or Provinced the 27 mations quirem the Institutions are nor here. | vince of e comp , and s and ta ents of spector nd corre nis emp | oonents of state that the ASN nor his elective me | described at to the tective made Code employer easures all be liab | and in this pest of neasures, Section makes describe in ar | d employ Owner's ny knowl describe n XI. any war ed in this ny manne | yed by Report Redge a ed in the ranty, e o Owner er for a | HSB (t during the nd belief, is Owner' expressed r's Report ny person | CT ne period 's I or |
| Hartford A5.03 Owner had bort in according the died, conditions, | ctors and d, CT h to h as perform cordance is certificate erning the neither the | the State have inspected as a state of the s | or Provinced the 27 mations quirem the Institutions are nor here. | vince of e comp , and s and ta ents of spector nd corre nis emp | oonents of state that the ASM nor his elective moleoner shadower s | described at to the the ective made Code employer easures all be liable from or content of the extrement of | and in this pest of neasures, Section makes describe in an annected | d employ Owner's ny knowl describe n XI. any war ed in this ny manne | yed by Report Redge a ed in the ranty, e s Owner er for an | HSB (t during the nd belief, is Owner' expressed r's Report ny person | CT ne period 's I or |
| Hartford A5.03 Owner had bort in according the died, conditions, | ctors and d, CT h to h as perform cordance is certificate erning the neither the | the State pave inspectors of the state neither examinating inspectors of a loss of the state of | or Provinced the 27 mations quirem the Institutions are nor here. | vince of e comp , and s and ta ents of spector nd corre nis emp | oonents of state that the ASN nor his elective me | described at to the the ective made Code employer easures all be liable from or content of the extrement of | and in this pest of neasures, Section makes describe ble in aronnected. | d employ Owner's my knowled describe n XI. any war ed in this my manned with the | yed by Report Redge a ed in the ranty, e Cowner for an inis inspenses | HSB (t during the state of the | CT ne period 's I or |
| | Section X Code Sympate of Au | Section XI. Code Symbol Stam cate of Authorization | Section XI. Code Symbol Stamp cate of Authorization No. | rtify that the statements made in the Section XI. Code Symbol Stamp cate of Authorization No. | rtify that the statements made in the report Section XI. Code Symbol Stamp cate of Authorization No. | rtify that the statements made in the report are correspond to the statements made in the report are correspond to the statements made in the report are correspond to the statements made in the report are correspond to the statements made in the report are correspond to the statements made in the report are correspond to the statements made in the report are correspond to the statements made in the report are correspond to the statements made in the report are correspond to the statements made in the report are correspond to the statements made in the report are correspond to the statements made in the report are correspond to the statement made in the report are correspond to the statement made in the report are correspond to the statement made in the report are correspond to the statement made in the report are correspond to the statement made in the report are correspond to the statement made in the statemen | rtify that the statements made in the report are correct and the Section XI. Code Symbol Stamp Cate of Authorization No. | rtify that the statements made in the report are correct and this conf Section XI. Code Symbol Stamp Not Apple Capal | Section XI. Code Symbol Stamp Cate of Authorization No. Not Applicable Not Applicable Not Applicable | Section XI. Code Symbol Stamp Cate of Authorization No. Not Applicable Not Applicable Date | Section XI. Code Symbol Stamp Cate of Authorization No. Not Applicable Not Applicable Date 5/18 |

| | Documer | nt No.: | 7.0 | | | | Revision No | o.: 0 | | |
|--------|------------------|----------------------|----------------------------|---------------|--|---------------------------------------|---------------------------|-----------------|--|--|
| | | | | | REPAIR/REPLA | | | | | |
| 1. | Owner | A: Exelon Nucle | | ne Provisions | of the ASME Coo Date 4/14/0 | | XI | | | |
| 1. | Owner _ | Exelon Nucle | Name | | Date 4/14/0 | | | | | |
| | 4300 Wii | nfield Road, V | Varrenville, IL | | Sheet | 1 | of | 1 | | |
| | | | Address | | | | | | | |
| 2. | Plant | Byron Nuclea | r Power Statio | n | Unit 02 | | | | | |
| | _ | | Name | | | | | | | |
| | 4450 N. | German Chur | ch Road, Byron | <u>, IL</u> | Work Order No. 00836116 - 01 Repair Organization, P.O. No., Job No., etc. | | | | | |
| | | | Address | | кер | air Organizati | on, P.O. No., Job No., | , etc. | | |
| 3. | Work Per | rformed by | Shaw/Stone & ' | Webster | Type Code Symbol Stamp Not Applicable | | | | | |
| | | | Name | | Authorization | | ot Applicable | | | |
| | 36400 S. I | Essex Road, Wi | lmington, IL 604 | 81 | Expiration Da | te Not | Applicable | | | |
| | | | Address | | | | | | | |
| 4. | Identifica | tion of System | n ESSENTIA | AL SERVICE \ | WATER (SX) | · · · · · · · · · · · · · · · · · · · | | | | |
| 5. | (a) Appl | icable Constru | action Code ASI | ME Section II | I 19 74 Edition | , S75 Ad | denda, 1702, | Code Case | | |
| | (b) Appl | icable Edition | of Section XI U | Jsed for Repa | ir/Replacement | 2001 | Edition / 2003 | Addenda | | |
| | Activ | • | | | | | | | | |
| _ | ` ' | on XI Code C | ` ´ | | | | | | | |
| 6. | Identifica | tion of Comp | onents | | | | | | | |
| | | | | | | | 6 . 1 | ASME | | |
| | | | | National | | | Corrected, Removed, or | Code Stamped | | |
| | Name of omponent | Name of Manufacturer | Manufacturer Serial No. | Board No. | Other Identification | Year Built | Installed | (Yes or No) | | |
| | fly Valve | Jamesbury | ND-48858-20B | N/A | 2SX034 | 1978 | REMOVED | YES | | |
| | | Jamesbury | 140 40030 200 | | 23,034 | - | KEMOVED | 123 | | |
| Butter | fly Valve | ENERTECH | 11536 | N/A | 2SX034 | 2007 | INSTALLED | YES | | |
| | | | | ; | | | | | | |
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| | | | | | | | | | | |
| 7. | Description | on of Work | REPLACE VAL | VE 2SX034 | | _ | | | | |
| _ | | | | | · · · · · · · · · · · · · · · · · · · | | | | | |
| 8. | Test Cond | lucted: Hydr | ostatic P | neumatic [| Nominal Op | erating F | Pressure 🛚 | Exempt | | |
| | | Other | Pressu | re <u>102</u> | psi Test | Temp | 67 | °F | | |

| 9. | Remarks | Work Order No. | | | Document No.: 7.0 |
|-----|----------------|---------------------------------------|---------------------------------------|-----------------------|--------------------------------|
| | | | Applicable Manufacturer | 's Data Reports to | be attached |
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| | | | · · · · · · · · · · · · · · · · · · · | | |
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| | | | CERTIFICATE OF CO | MPLIANCE | |
| I | certify that | the statements ma | | | to the requirements of the |
| | ME | | * | | • |
| Coc | de, Section > | (I. | | | |
| Гуј | pe Code Sy | mbol Stamp | | Not Applicable | |
| Cei | rtificate of 4 | Authorization No. | | Not Applicable | |
| Sig | ned | de Some | RRR Coord | D | eate $6/22$, 20 07 |
| Ū | | Own | | | -/ |
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| | | CE | RTIFICATE OF INSERVI | CE INSPECTION | |
| | | - | d commission issued by the l | | iler and Pressure |
| • | Vessel Insp | ectors and the Stat | e or Province of Illino | ois and employe | d by HSB CT |
| (| of Hartfor | d, CT have inspe | cted the components describ | ed in this Owner's Re | eport during the period |
| | 3/21/07 | to 6/14/0 | , and state that to the | e best of my know | ledge and belief, |
| t | he Owner h | , . | minations and taken correc | | |
| | | - | requirements of the ASMI | | |
| | • | | her the Inspector nor his en | | |
| | | | tions and corrective measure | | • |
| I | Furthermore | e, neither the Inspe | ctor nor his employer shall | be liable in any m | anner for any personal |
| | | <u>-</u> | loss of any kind arising fr | • | • • |
| • | Man of pro | Null | Commissions | | ' |
| | gran | Inspector's Signature | Commissions | | ite Province, and Endorsements |
| г | Date: | | 20 07 | | |
| - | -uio. (_ | 2 <i>4 4 49 7 - 1</i> 74 1 1 | 4U U/ | | |
| | - 7 | mu bu | | | |
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| Document No.: | 7.1 | Revision. No.: | 0 |
|---------------|-----|----------------|---|
| Document No.: | 7.1 | Revision. No.: | 0 |

| Owner _ | Exelon Nuclea | | | Date | 4/14/07 | | · | |
|----------------------------|---------------------------------|--------------------------------------|--|----------------------------------|-----------------|--------------------|--------------------------|---------------------------------------|
| 4300 Win | field Road, Wa | Name rrenville. IL | | Sheet | 1 | | of 1 | |
| | | Address | ······································ | Circuit | | | J | · · · · · · · · · · · · · · · · · · · |
| Plant | Byron Nuclear | Power Station | | Unit _(| 02 | | | |
| 4450 N. G | ierman Church | Name Road, Byron, IL | | Work O | rder No. | 0083611 | 6 - 01 | |
| | | Address | - | | | | P.O. No., Job No., | etc. |
| Work Perf | ormed by | Shaw/Stone & Webs | ter | Type Co | ode Symb | ol Stamp | Not Applic | able |
| | | Name | - | Authorization No. Not Applicable | | | | |
| 36400 S. I | | /ilmington, IL 60481 | | Expirati | on Date | Not A | oplicable | · · · · · · · · · · · · · · · · · · · |
| | | Address | | | | | | |
| Identificati | on of System | Essential Service | Water [SX | <u> </u> | | | | |
| (a) Applio | cable Construct | ion Code <u>ASME S</u> | ection III | 19_74 | Edition, S | 75 Adde | nda, <u>None</u> | Code Case |
| | | Section XI Used for I | Repair/Rep | placeme | nt Activity | 2001 | Edition / 2003 | Addenda |
| . * * | on XI Code Cas on of Compone | • / | | | | | | |
| | on or compone | 1113 | | _ | | · | | |
| | | | | | | | Corrected, | ASME Code |
| Name of | Name of | Manufacturer | National Board | | ther | Year | Removed, or Installed | Stamped |
| Component | Manufacturer | Serial No. | No. | 1 - | ification | Built | iristalled | (Yes or No |
| lt , Stud /2" X 19 3/4" | Texas Bolt Co. | Ht. Code: GT44 | N/A | 1 | X034 ud #2 | 1977 | Removed | No |
| lt , Stud | Nova Machine | Ht. Code: 239162 | N/A | 28 | X034 | 2006 | Installed | No |
| /2" X 19 3/4" It , Stud | Products | Trace Code: OC16 | | | ıd #2 (X034 | 2000 | Instance | No |
| /2" X 19 3/4" | Texas Bolt Co. | Ht. Code: GT45 | N/A | | d #18 | 1977 | Removed | INO |
| lt , Stud /2" X 19 3/4" | Nova Machine Products | Ht. Code: 239162 Trace Code: OC16 | N/A | | X034 d #18 - | 2006 | Installed | No |
| lt , Stud | | Ht. Code: GT44 | N/A | | X034 | 1977 | Removed | No |
| /2" X 7 3/4" | | Ht. Code: 239162 | 19/7 | | d #2A | 1977 | nemoved | |
| lt , Stud /2" X 7 3/4" | Nova Machine Products | Trace Code: OC16 | N/A | | X034 d #2A ~ | 2006 | Installed | No |
| It, Stud | Texas Bolt Co. | Ht. Code: GT44 | N/A | | X034 | 1977 | Removed | No |
| /2" X 7 1/4" lt , Stud | Nova Machine | Ht. Code: 239162 | | | #31A X034 | | L | No |
| /2" X 7 1/4" | Products | Trace Code: OC16 | N/A | | #31A ~ | 2006 | Installed | |
| | Ì | | | | | | | |
| | | | | | | | | |
| | <u> </u> | | | | 1 | | | |
| Description | n of Work R | EPLACE VALVE/PIP | E FLANG | E STUD | S/NUTS - | 2SX034 | | |
| · · · · · · · · · · · · | | | | | | | | |
| | | | | | | | | |
| Test Cond | ucted: Hydro | static 🗆 🔻 P | neumatic | П | Nomin | al Operat | ing Pressure N | 7 |
| Test Cond | ucted: Hydro Other | | neumatic 102 | psi | | al Operat Temp. | ing Pressure 🗵 67 |] ºF |

| - | | Work Order No. | | | | |
|---------------------|---|--|---|---|--|---|
| - | | | Applicabl | e Manufacturer's [| Data Reports to be attach | ed |
| | | <u> </u> | | | Accession - Access | |
| - | | | | | | |
| - | | | | | | |
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| | | | OFDIE | IOATE OF COM | | |
| | | | | ICATE OF COM | | |
| | - | | de in the report | are correct and th | is conforms to the require | ements of the ASME |
| | e, Section > | | | | | |
| ype | Code Sym | bol Stamp | | No. | ot Applicable | |
| erti | ificate of Au | thorization No. | | | Not Applicable | |
| ign | ed λ | in Sma | - RRR C | Dorl | Date 1 | 1/22 , 20 <u>07</u> |
| • | | D | vnenor Owner's De | esignee, Title | | 7 |
| | | <i>J</i> | | | | |
| | | | | | | |
| | | | | | | |
| | | C | ERTIFICATE | OF INSERVICE | INSPECTION | |
| | the undersi | | | | tional Board of Boiler and | 1 Droccuro |
| | | ctors and the State | | • | | |
| V | • | | | | and employed by | |
| | Hartford | <u>ı, cı</u> nave insp | ecjea the com | | | |
| of | | . / | 1/2- | * | in this Owner's Report d | • , |
| | 4/3/07 | to <i>6/3.3</i> , | | state that to the b | est of my knowledge and | belief, |
| | <i>4/3/67</i> ne Owner ha | | | state that to the b | • | belief, |
| th | | s performed exam | ninations and ta | state that to the b | est of my knowledge and easures described in this | belief, |
| th R | eport in acc | as performed exame cordance with the r | ninations and to | I state that to the baken corrective me of the ASME Code, | est of my knowledge and easures described in this | belief, Owner's |
| th R | eport in acc y signing th | as performed exame cordance with the r is certificate neither | ninations and to requirements of er the Inspector | I state that to the baken corrective me the ASME Code, r nor his employer | est of my knowledge and easures described in this Section XI. | belief, Owner's pressed or |
| th R B; | eport in acc y signing th nplied, cond | as performed exame ordance with the rais is certificate neithe erning the examin | ninations and to requirements of er the Inspector nations and cor | I state that to the baken corrective me of the ASME Code, I nor his employer rective measures o | est of my knowledge and easures described in this Section XI. makes any warranty, exp | belief, Owner's pressed or Report. |
| th B B im | eport in acc y signing th nplied, cond urthermore, | as performed exame ordance with the resistance with the resistance meither the examination of the example of th | ninations and to requirements of er the Inspector nations and corrector nor his em | I state that to the baken corrective me of the ASME Code, I nor his employer rective measures of ployer shall be liab | est of my knowledge and easures described in this Section XI. makes any warranty, explescribed in this Owner's le in any manner for any | belief, Owner's pressed or Report. personal |
| th B B; im | eport in acc y signing th nplied, cond urthermore, | as performed exame ordance with the resistance with the resistance meither the examination of the example of th | ninations and to requirements of er the Inspector nations and corrector nor his em | I state that to the baken corrective me of the ASME Code, or nor his employer rective measures of ployer shall be liabed arising from or co | est of my knowledge and easures described in this Section XI. makes any warranty, exp described in this Owner's | belief, Owner's pressed or Report. personal |
| th B B im | eport in acc y signing th nplied, cond urthermore, | as performed exame ordance with the resistance with the resistance meither the examination of the example of th | ninations and to requirements of er the Inspector nations and corrector nor his em | I state that to the baken corrective me of the ASME Code, or nor his employer rective measures of ployer shall be liabed arising from or co | est of my knowledge and casures described in this Section XI. makes any warranty, explescribed in this Owner's ale in any manner for any connected with this inspec | belief, Owner's pressed or Report. personal tion. |

| DOCUMENT NO . | 6 1 | | DEV NO. O |
|---------------|-----|--|-------------|
| DOCUMENT NO.: | 0.1 | | REV. NO.: 0 |

| 1. | Owner Exelon Nuclear | | | | Date 4/18/07 | | | | | | |
|-------|--|------------------------------|----------------------------|--|--|---------------|--|--|--|--|--|
| | 4300 Winf | ield Road, Wa | Name rrenville, IL | | Sheet 1 | | of 1 | | | | |
| 2. | | | Address Power Station | | Unit 02 | | | | | | |
| ۷. | | | Name | | Offit 02 | | | | | | |
| | 4450 N. G | | Road, Byron, Address | <u> </u> | Work Order No. 00860234-01 Repair Organization, P.O. No., Job No., etc. | | | | | | |
| • | Mant Dark | | | Vohetor | | | | | | | |
| 3. | Work Perfe | ormed by _3 | haw/Stone & V Name | venster | Type Code Symbol Stamp Not Applicable Authorization No. Not Applicable | | | | | | |
| | 36400 S. E | | ilmington, IL 6 | 0481 | Expiration Date | Not A | pplicable | | | | |
| | | | Address | | | | | | | | |
| 4. | Identification | on of System | SX -ESSEN | TIAL SERVICE | WATER | | | | | | |
| 5. | (a) Applicable Construction Code <u>ASME Section III</u> 19 74 Edition, <u>S75</u> Addenda, <u>N/A</u> Code Case (b) Applicable Edition of Section XI Used for Repair/Replacement Activity <u>2001</u> Edition / 2003 Addenda (c) Section XI Code Case(s) NONE | | | | | | | | | | |
| 6. | Identification | on of Compone | nts | | | | | | | | |
| | Name of omponent | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Corrected, Removed, or Installed | ASME Code Stamped (Yes or No) | | | |
| 2SXB | 7A-8" | Southwest Fabricating | #29625 | N/A | 2SXB7A-8" Spool SX-88-1 | 1980 | Removed | YES | | | |
| 2SXB | 7A-8" | Consolidated Power Supply | HT# X22341 | N/A | 2SXB7A-8" | 2007 | Installed | NO | | | |
| | | | | | | _ | | | | | |
| | | | | | | | | | | | |
| | - | | | <u> </u> | | | | | | | |
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| | | | | | | | | | | | |
| 7. | Description | | EPLACE APPR | OX. 14'-8" OF | 8" PIPE BETWEEN | I FIELD V | WELDS FW-259 | 5 | | | |
| 8. | Test Condu | ucted: Hydro | static 🗌 F | Pneumatic 🔲 | Nominal Opera | ting Pres | sure 🛛 Exe | mpt 🔲 | | | |
| | | Other | Pressur | e <u>58</u> | psi Test | Temp | 68 | ₽F | | | |
| Note: | Suppleme | ntal sheets in fo | orm of lists, sket | ches, or drawin | gs may be used, p | rovided (| 1) size is 8½ in. : | x 11 in., (2) | | | |

| | Work Order 008602 | .54-01 ° |
|--|--|---|
| | | Applicable Manufacturer's Data Reports to be attached |
| | | |
| | | |
| | | |
| | | |
| | | CERTIFICATE OF COMPLIANCE |
| I certify that | the statements made i | in the report are correct and this conforms to the requirements of the ASME |
| ode, Section | | in the report are correct and this comothis to the requirements of the Asiac |
| ype Code Sy | | Not Applicable |
| • | Authorization No. | Not Applicable |
| igned | Sm | RR Coal Date 5/10 , 20 07 |
| | Owner | or Owner's Designee, Title |
| | | |
| | signed, holding a valid | RTIFICATE OF INSERVICE INSPECTION commission issued by the National Board of Boiler and Pressure r Province of Illinois and employed by HSB CT |
| Vessel Insp | signed, holding a valid sectors and the State o | commission issued by the National Board of Boiler and Pressure r Province of and employed by HSB CT |
| Vessel Insp | rsigned, holding a valid pectors and the State of ord, CT have inspect | commission issued by the National Board of Boiler and Pressure r Province of Illinois and employed by HSB CT red the components described in this Owner's Report during the period |
| Vessel Insp of Hartfo | rsigned, holding a valid pectors and the State of ord, CT have inspect toto | commission issued by the National Board of Boiler and Pressure r Province of Illinois and employed by HSB CT ted the components described in this Owner's Report during the period r , and state that to the best of my knowledge and belief, |
| of Hartfo | rsigned, holding a valid pectors and the State of ord, CT have inspect to <u>5////</u> has performed examina | commission issued by the National Board of Boiler and Pressure r Province of Illinois and employed by HSB CT red the components described in this Owner's Report during the period red, and state that to the best of my knowledge and belief, retions and taken corrective measures described in this Owner's |
| of Hartfo ////// the Owner I | rsigned, holding a valid pectors and the State or order, CT have inspect to | commission issued by the National Board of Boiler and Pressure r Province of Illinois and employed by HSB CT led the components described in this Owner's Report during the period , and state that to the best of my knowledge and belief, ations and taken corrective measures described in this Owner's uirements of the ASME Code, Section XI. |
| of Hartfo /////// the Owner I Report in ac By signing t | rsigned, holding a valid pectors and the State of the control of t | commission issued by the National Board of Boiler and Pressure r Province of Illinois and employed by HSB CT red the components described in this Owner's Report during the period and state that to the best of my knowledge and belief, reations and taken corrective measures described in this Owner's requirements of the ASME Code, Section XI. The Inspector nor his employer makes any warranty, expressed or |
| of Hartfo the Owner I Report in ac By signing t implied, cor | rsigned, holding a valid pectors and the State of the control of t | commission issued by the National Board of Boiler and Pressure r Province of Illinois and employed by HSB CT red the components described in this Owner's Report during the period red the components described in this Owner's Report during the period red red that to the best of my knowledge and belief, ations and taken corrective measures described in this Owner's uirements of the ASME Code, Section XI. The Inspector nor his employer makes any warranty, expressed or ons and corrective measures described in this Owner's Report. |
| vessel Insp of Hartfo //////////////////////////////////// | rsigned, holding a valid pectors and the State of the sta | commission issued by the National Board of Boiler and Pressure r Province of Illinois and employed by HSB CT red the components described in this Owner's Report during the period and state that to the best of my knowledge and belief, reations and taken corrective measures described in this Owner's requirements of the ASME Code, Section XI. The Inspector nor his employer makes any warranty, expressed or |
| vessel Insp of Hartfo //////////////////////////////////// | rsigned, holding a valid pectors and the State of the sta | commission issued by the National Board of Boiler and Pressure r Province of Illinois and employed by HSB CT led the components described in this Owner's Report during the period , and state that to the best of my knowledge and belief, ations and taken corrective measures described in this Owner's uirements of the ASME Code, Section XI. The Inspector nor his employer makes any warranty, expressed or ons and corrective measures described in this Owner's Report. |
| vessel Insp of Hartfo //////////////////////////////////// | rsigned, holding a valid pectors and the State of the sta | commission issued by the National Board of Boiler and Pressure r Province of Illinois and employed by HSB CT red the components described in this Owner's Report during the period red the components described in this Owner's Report during the period red red red red red red red red red re |

| DOCUMENT NO.: | 6.1 | REV. NO.: 0 |
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| | 4 | |

| 1. | Owner _ | Exelon Nuclea | r | | Date <u>04/16/07</u> | | - | | | | | |
|----------|--|------------------------------|------------------------------|---------------------------------------|---------------------------------------|-----------|--|--------------------------------|--|--|--|--|
| | 4300 Winf | ield Road, Waı | Name | | Sheet 1 | | of 1 | | | | | |
| | 4300 17111 | | Address | · · · · · · · · · · · · · · · · · · · | Sileeti | | of <u>1</u> | | | | | |
| 2. | Plant _ | Byron Nuclear | Power Station | | Unit <u>02</u> | | | | | | | |
| | 4450 N. G | erman Church | Name Road, Byron, I | ı | Work Order No. | 0086260 | 5-01/16 | | | | | |
| • | | | Address | | | | P.O. No., Job No., | etc. | | | | |
| 3. | Work Perfo | ormed by S | haw/Stone & W | /ehster | Type Code Symbol Stamp Not Applicable | | | | | | | |
| 0. | Work Fort | | Name | , cooto. | Authorization No. Not Applicable | | | | | | | |
| | 36400 S. E | | ilmington, IL 6 | 0481 | Expiration Date | Not A | oplicable | | | | | |
| | Address | | | | | | | | | | | |
| 4. | Identification | on of System | SX-ESSENT | AL SERVICE | WATER | | | | | | | |
| 5. 6. | (b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition / 2003 Addenda (c) Section XI Code Case(s) NONE | | | | | | | | | | | |
| | | · | | | T | | | ASME | | | | |
| | Name of | Name of | Manufacturer | National Board | Other | Year | Corrected, Removed, or Installed | Code Stamped (Yes or No) | | | | |
| | omponent 3" PIPE | Manufacturer Southwest | Serial No. | No. | Identification 2SXA9A-6" | Built | | | | | | |
| W/90 | 0° ELBOW | Fabricating | S/N: 10190 | N/A | Spool SX-29-5 | 1977 | Removed | Yes | | | | |
| 6 | 6" PIPE | Consolidated Power Supply | Ht.#: X82519 Att.#: U21214 A | N/A | 2SXA9A-6" Cat ID 24417-1 | 2006 | Installed | No | | | | |
| 6" 90 | o° ELBOW | Consolidated Power Supply | Ht.#: P402E | N/A | 2SXA9A-6" Cat ID 24913-1 | 2007 | Installed | No | | | | |
| 6 | " PIPE | Southwest Fabricating | S/N: 10189 | N/A | 2SXA9A-6" Spool SX-29-4 | 1977 | Removed | Yes | | | | |
| 6 | " PIPE | Consolidated Power Supply | Ht.#: X82519 | N/A | 2SXA9A-6" Cat ID 24417-1 | 2006 | Installed | No | | | | |
| 6 | " PIPE | Southwest Fabricating | Ht#: N95364 | N/A | 2SXA9A-6" Spool SX-59-1A | 1980 | Removed | No | | | | |
| 6 | " PIPE | Consolidated Power Supply | Ht.#: X82519 | N/A | 2SXA9A-6" Cat ID 24417-1 | 2006 | Installed | No | | | | |
| 6 | " PIPE | Guyon Steel | Ht#: 104138 | N/A | 2SXA9A-6" Spool SX-59-2A | 1981 | Removed | No | | | | |
| 6 | " PIPE | Consolidated Power Supply | Ht.#: X82519 | N/A | 2SXA9A-6" Cat ID 24417-1 | 2006 | Installed | No | | | | |
| 7. | Description | of Work RE | EPLACE APPRO | OX. 50' OF 6" F | PIPE AND 90 DEG | . ELBOW | 'S (SEE REMAF | RKS) | | | | |
| 8. | Test Condu | ucted: Hydros | static F | neumatic | Nominal Opera | ling Pres | sure 🛛 Exe | mpt 🗌 | | | | |
| | | Other | Pressure | e <u>78</u> | psi Test | Temp | 68.5 | ٥Ŀ | | | | |

| 9. | Rema | arks | 00862605-0 | | | | | | | |
|------|---------|-----------|-------------------------------|---------------------------------------|------------|---------------------------------|-----|------------------|--------------------|--------------------|
| | | | | | • • | Manufacturer's | | • | | |
| | Repla | ace a | oproximately ! | 50' of 6" pip | e and as | sociated fittings | at | 3 separate loc | ations on line | e 2SXA9A: |
| | | | | | | nt) between FW) between FW5 | | | 2SX71010R a | and Pipe and Elbow |
| | | | Spool SX-59-1 t 2SX71013F | | Replacem | ent) between F | W2 | 371 and first e | lbow shop w | eld east of pipe |
| | | | Spool SX-59-2 en two elbow | | | ent) approxima | ely | 8'-1/6" of horiz | zontal pipe ru | unning north/south |
| | | | | | 'ERTIEK | CATE OF CO | AD | LIANCE | · | |
| ı | certify | that ti | ne statements | _ | | | | | he requireme | ents of the ASME |
| | de, Sec | | | made in a | ic repert | are correct and | | | no requirem | |
| | - | | ibol Stamp | | | | Not | Applicable | | |
| | | | thorization No |). | ***** | | | lot Applicable | · | 20 |
| Sigi | | | 50 | V | RRR | Coscl | | | Date \$/12 | 2 , 20 07 |
| - 0 | • | | 1 | Owner or (| Owner's De | signee, Title | | | - 4/1 - | |
| | | | · · | | | | | | | |
| | | | | | | | | | | |
| | | | | CEDTI | EICATE | OF INSERVI | `E | INCRECTION | | |
| , | thou | ndoro | ianad haldine | | | issued by the I | | | • | roccuro |
| | | | ctors and the | | | · | vau | and employ | | SB CT |
| | | • | | | | | مان | | · · | |
| (| of Ha | artford | | Inspected | • | onents describ | | | • | • |
| | 1/29 | <i>II</i> | to _ _5 / | | | state that to the | | | | |
| | | | - | | | ken corrective | | | ed in this Ow | ner's |
| | ·- | | | · · · · · · · · · · · · · · · · · · · | | the ASME Coo | | | | |
| | | _ | | | - | nor his employ | | • | • • • | |
| | | | - | | | ective measure | | | | • |
| | | | | • | • | oloyer shall be li | | • | | |
| i | njury o | r prop | erty damage | or a loss of | i any kind | arising from or | COI | _ | | l . |
| | SA | und | Moln | | | Commissions | _ | 146-14 | | |
| | V | | Inspector's Sign | | | | | National Board, | State Province, | and Endorsements |
| Г | Date: | | Man 11 | , 20 (|)7 | | | | | |

(Final)

| DOCUMENT NO.: | 4 A | REV. NO.: | 0 |
|----------------------|------------|-----------|---|
| DOCUMENT NO.: | 4 A | REV. NO.: | (|

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

| | As Require | ed by the Provis | sions of t | he AS | ME Code S | Section | ΧI | | | |
|---------------------------|--|---------------------------------|--------------------------|----------------------------|-----------------------|---------------|--|--|--|--|
| 1. Owner | Exelon Nuclear | | | Date | 1/4/2007 | | | | | |
| | field Road, Warr | Name enville, IL ddress | | Sheet | 1 | | of | 2 | | |
| 2. Plant _ | Byron Nuclear P | | | Unit | 00 | | | | | |
| 4450 N. G | German Church F | load, Byron, IL | | Work Order No. 00938349-02 | | | | | | |
| | A | ddress | | | Repair Or | ganization, | P.O. No., Job No | o., etc. | | |
| 3. Work Per | rk Performed by Byron Mechanical Maintenance | | | Туре | Code Symbo | ol Stamp | Not App | licab ie | | |
| | | Name | | | rization No. | | Applicable | | | |
| 4450 N. C | Serman Church F | load, Byron, IL ddress | | Expira | ition Date | Not A | plicable | | | |
| 5. (a) Appli (b) Appli | cable Construction | n Code ASME section XI Used for | Section III | 19 74 | Edition, S | | | Code Case | | |
| ` ' | tion of Component | · | | | | | | | | |
| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | lde | Other entification | Year Built | Corrected, Removed, or Installed | ASME Code Stamped (Yes or No) | | |
| PIPE 2" SCHED | Iron | MK: CB | N/A | | SX85AB -100-84-3 | 1980 | REMOVED | NO | | |
| PIPE 2" SCHED | 80 CONSOLIDATED POWER SUPPLY | | N/A | | SX85AB ID 24507-1 | 2006 | INSTALLED | NO | | |
| ELBOW 2" SCHED. 80 | | LOT # M240 SX-100-84-3 | N/A | | SX85AB | 1983 | REMOVED | NO | | |
| ELBOW 2" SCHED. 80 | CONSOLIDATED POWER SUPPLY | | N/A | | SX85AB ID 47207-1 | 2006 | INSTALLED | NO | | |
| 2" COUPLINGS (QTY 2) | BONNEY FORGE | BM35 | N/A | 0: | SX85AB | 1977 | REMOVED | NO | | |
| THREADED RO | G&W TAYLOR FORGE | HT# 20598 SX-100-84-3 | N/A | | SX85AB E-SX123 | 1978 | REMOVED | NO | | |
| THREADED RO | NOVA MACHIN PRODUCTS | HT#: 77091 | N/A | CAT | ID 25042-1 | 2001 | INSTALLED | NO | | |

| 7. | Description of Wor | FLANGE | REPLACE PIPE SECTION AND FITTINGS. REPLACE BOLTING ON ORIFICE FLANGE. REPLACE U-BOLT & NUTS ON SUPPORT 1SX79007R. ORIFICE FLANGES TO BE REUSED | | | | | | |
|----|--------------------|-------------------|--|----------------|---------------|----------------------------------|-------------|--------|--|
| 8. | Test Conducted: | Hydrostatic Other | ☐ P | neumatic 148 | Nomina psi | al Operating Press Test Temp. | ure 🛛 45 | Exempt | |

N/A

N/A

0SX85AB

0FE-SX123 CAT ID 37029-1

0SX85AB

0FE-SX123

1978

2004

REMOVED

INSTALLED

NO

NO

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

G&W TAYLOR

FORGE

NOVA MACHINE

PRODUCTS

NUT 5/8-11

NUT 5/8-11

HT# 6024521

SX-100-84-3

HT#: 7220464

TRACE: K365

| | 0938349-02 | facturer's Data Reports | to be attached | |
|---|--|---|---|----------|
| | Applicable Manul | acturer's Data Reports | to be attached | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | CERTIFICATE | OF COMPLIANCE | | |
| I cortify that the staten | nents made in the report are cor | | to the requirements of the AS | SME |
| ode, Section XI. | rents made in the report are con | Tect and this comonns | to the requirements of the At | JIVIL |
| pe Code Symbol Stan | nn | Not Applicabl | 6 | |
| ertificate of Authorization | | Not Applica | · · · · · · · · · · · · · · · · · · · | |
| gned Authorization | | ιτοι Αρριίοι | Date _Z/5, 20 _ | 47- |
| alleg (A) | Owner or Owner's Designee, 1 | r:u_ | | <u> </u> |
| \mathcal{L} | Owner of Country of Congress, 1 | 1100 | | |
| | | | | |
| | | | | |
| | CERTIFICATE OF IN | ISERVICE INSPECT | ION | |
| I, the undersigned, ho | olding a valid commission issued | d by the National Board | of Boiler and Pressure | |
| | d the State or Province of | Illinois and em | ployed by HSB CT | |
| Vessel Inspectors an | | | P.0,000, | |
| | have inspected the components | | | |
| • | have inspected the components | s described in this Own | er's Report during the period | |
| of Hartford, CT | have inspected the components | s described in this Own hat to the best of my kr | er's Report during the period nowledge and belief, | |
| of Hartford, CT //////////////////////////////// to the Owner has perfor | have inspected the components , and state the med examinations and taken co | s described in this Own hat to the best of my kr prrective measures des | er's Report during the period nowledge and belief, | |
| of Hartford, CT to the Owner has perfore Report in accordance | have inspected the components, and state the med examinations and taken components of the AS | s described in this Own hat to the best of my knorrective measures designed SME Code, Section XI. | er's Report during the period nowledge and belief, cribed in this Owner's | |
| of Hartford, CT to the Owner has perfor Report in accordance By signing this certific | have inspected the components , and state the med examinations and taken co | s described in this Own hat to the best of my krorrective measures described SME Code, Section XI. s employer makes any | er's Report during the period nowledge and belief, cribed in this Owner's warranty, expressed or | |
| of Hartford, CT to the Owner has perfor Report in accordance By signing this certific implied, concerning the | have inspected the components, and state the med examinations and taken contents of the ASC cate neither the Inspector nor his the examinations and corrective | s described in this Own hat to the best of my knorrective measures designed SME Code, Section XI. s employer makes any measures described in | er's Report during the period nowledge and belief, cribed in this Owner's warranty, expressed or this Owner's Report. | |
| of Hartford, CT to the Owner has perfor Report in accordance By signing this certific implied, concerning the Furthermore, neither | have inspected the components, and state the med examinations and taken components with the requirements of the Associate neither the Inspector nor his the examinations and corrective the Inspector nor his employer states. | s described in this Own hat to the best of my krorrective measures describe SME Code, Section XI. s employer makes any measures described in shall be liable in any massive section any massive section and massive sections. | er's Report during the period nowledge and belief, cribed in this Owner's warranty, expressed or this Owner's Report. | |
| of Hartford, CT to the Owner has perfor Report in accordance By signing this certific implied, concerning the Furthermore, neither | have inspected the components, and state the med examinations and taken components with the requirements of the Associate neither the Inspector nor his the examinations and corrective the Inspector nor his employer state or a loss of any kind arising | s described in this Own hat to the best of my krorrective measures describe SME Code, Section XI. s employer makes any measures described in shall be liable in any massive section any massive section and massive sections. | er's Report during the period nowledge and belief, cribed in this Owner's warranty, expressed or this Owner's Report. | |
| of Hartford, CT to the Owner has perfor Report in accordance By signing this certific implied, concerning the Furthermore, neither injury or property dan | have inspected the components, and state the med examinations and taken components with the requirements of the Associate neither the Inspector nor his the examinations and corrective the Inspector nor his employer state or a loss of any kind arising | s described in this Own hat to the best of my knorrective measures described. SME Code, Section XI. is employer makes any measures described in shall be liable in any may from or connected with missions | er's Report during the period nowledge and belief, cribed in this Owner's warranty, expressed or this Owner's Report. | |

| | FORM NIS-2 SUPPLEMENTAL SHEET | | | | | | | | | | | |
|-----|---|-------------------------------|-------------------------------|--------------------------|--|---------------|--|--|--|--|--|--|
| 1. | Owner | Exelon Nuclea | r | D | ate 1/4/2007 | | | | | | | |
| | 4300 Winfie | ld Road, Warre | | s | heet 2 | of | 2 | | | | | |
| 2. | Plant . | Byron Nuclear | ddress Power Station Name | U | Init 0 | | | | | | | |
| | 4450 N. German Church Road, Byron, IL Address | | | | Work Order No. 00938349-02 Repair Organization, P.O. No., Job No., etc. | | | | | | | |
| 3. | Work Performed by Byron Mechanical Maintenance | | | | Type Code Symbol Stamp Not Applicable | | | | | | | |
| | 4450 N. Ger | | Vame | | uthorization No. Expiration Date | Not Appl | plicable licable | | | | | |
| | | Α | ddress | | - | | | | | | | |
| 4. | Identification | of System | SX ESSENTIAL SE | RVICE W | ATER | | | | | | | |
| 5. | 5. (a) Applicable Construction Code Section III 19 74 Edition, S75 Addenda, None Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacement Components 2001 Ed/2003 Ad (c) Section XI Code Cases used, None | | | | | | | | | | | |
| 6. | Identification | n of Components | Repaired or Repla | ced and R | eplacement Comp | onents | | | | | | |
| | Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Corrected, Removed, or Installed | ASME Code Stamped (Yes or No) | | | | |
| | OLT w/ Nuts | ELCEN | P/N A-000875 | N/A | 1SX79007R | 1980 | REMOVED | NO | | | | |
| U-B | OLT w/ Nuts | BERGEN POWER PIPE SUPPORTS | P/N TUS-020-SP PO 00411383 | N/A | CAT ID 24580-1 1SX79007R | 2006 | INSTALLED | NO | | | | |
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| DOCUMENT NO.: | 7.0 | REV. NO.: 0 |
|---------------|-----|-------------|
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| 1. | Owner | Exelon Nuc | lear | | Date | 3/30/07 | | | | |
|----|------------|--|--------------------------------------|-------------------|-------------------------------|--------------|----------------|---------------------|-------------|------|
| | 4300 Wi | infield Road, | Name <mark>Warrenville, IL</mark> | | Sheet | 1 | o | f | 1 | |
| 2. | Plant | Byron Nucl | Address ear Power Sta | tion | Unit _ | 01 | | | | |
| | 4450 N. | German Chu | Name rch Road, Byr | on, IL | Work Order No. 00963779-01/19 | | | | | |
| | | | Address | | | Repair Org | ganization, P. | O. No., Job | No., etc. | |
| 3. | Work Pe | Work Performed by Shaw/Stone & Webster | | | | ode Symbo | • | | plicable | |
| | | | Name | | | zation No. | | plicable | | |
| | 36400 S | . Essex Road | <u>l, Wilmington,</u> | IL 60481 | Expirati | ion Date | Not App | licable | | |
| | | | Address | | | | | | | |
| 4. | Identifica | ation of Syster | | ENTIAL SERVIC | | | | | | |
| | | | • | 1986 Edition, 198 | 7 Addenda | a (Valve) 19 | 74 Edition | , S74 Add | enda (Suppo | irt) |
| 5. | (a) App | licable Constr | uction Code | ASME Section II | l 19 74 | Edition, S7 | 75 Addend | la, N-249 thru 5 | | se |
| | (b) App | licable Edition | of Section XI | Jsed for Repair/R | eplaceme | nt Activity | 2001 Ec | lition / 20 | 03 Addenda | ı |
| | | tion XI Code (| | | • | • | | | | |
| 6. | · • | ation of Comp | ` ' | | | | | | | |
| | | | | | | | <u> </u> | | LACME | |

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Corrected, Removed, or Installed | ASME Code Stamped (Yes or No) |
|--|-------------------------------|--------------------------------|--------------------------|-------------------------|---------------|--|--|
| Weldolet, 3" Outlet, Sch. 40, SA-234 WPB | Consolidated Power Supply | Ht#: 3433ANB | N/A | 1SX11B-3" | 2007 | Installed | NO |
| Valve, Gate, 3", 150#, SA-351 Gr. CF8M | Flowserve | S/N: BC427 | N/A | 1SX271B | 2006 | Installed | YES |
| Flange, 3" RFWN, 150#, SA-105 | Consolidated Power Supply. | Ht#: 3M40774 | N/A | 1SX11B-3" | 2003 | Installed | NO |
| Flange, 3" RFWN, 150#, SA-105 | Consolidated Power Supply | Ht#: S1324 | N/A | 1SX11B-3" | 2003 | Installed | NO |
| Rod, Threaded, 5/8-11, SA-193 Gr. B7 | Nova Machine Products | Ht: 230111 / Ht. Code: P514 | N/A | 1SX11B-3" | 2005 | Installed | NO |
| Nut, Heavy Hex, (2 ea.) 5/8-11 SA-194 Gr.2H | Nova Machine Products | Ht: B87035 / Ht#: B711 | N/A | 1SX11B-3" | 2001 | Installed | NO |
| Nut, Heavy Hex, (6 ea.) 5/8-11 SA-194 Gr.2H | Nova Machine Products | Ht: B87035 / Ht#: VCF | N/A | 1SX11B-3" | 2000 | Installed | NO |
| Pipe, 3", SCH. 40 SA-106 Gr. B | Consolidated Power Supply | HT#D00103 ' | N/A | 1SX11B-3" | 2006 | Installed | NO |
| Elbow, 3", 90°, (4 ea.) SA-234 Gr. WPB | Consolidated Power Supply | Ht#: S068B1A | N/A | 1SX11B-3" | 2007 | Installed | NO |
| U-Bolt, Pipe, 3/4" Rod X 3" Pipe, w/ Hex Nuts | Bergen Power Pipe Supports | Ht#: JB1214 | N/A | 2SX43021G | 2004 | Installed | NO |
| Cap, Pipe, 3", Sch. 40, SA-234 Gr. WPB | Consolidated Power Supply | Ht#: S551A-17 | N/A | 1SX11B-3" | 2007 | Removed | NO |

| 7. | Description of Wor EC# 356162. | k <u>INSTAL</u> | L ALTERN | NATE FLOW PA | TH TIE- | IN FOR 1B SX CU | BICLE CO | OLER PER | |
|----|--------------------------------|-----------------|----------|--------------|---------|--------------------|----------|----------|--|
| 8. | Test Conducted: | Hydrostatic | □ Pr | neumatic 🗌 | Nomina | al Operating Press | ure 🛛 | Exempt [| |
| | VT-3 | Other 🛚 | Pressure | 110/12 | _ psi | Test Temp | 70 / 82 | ջF | |

| | der parent alternate flow path Work Order 00973172-01 |
|--|---|
| | |
| | |
| | |
| CER | RTIFICATE OF COMPLIANCE |
| I certify that the statements made in the re | eport are correct and this conforms to the requirements of the ASME |
| ode, Section XI. | |
| ype Code Symbol Stamp | Not Applicable |
| ertificate of Authorization No. | Not Applicable |
| igned & SR RR | 2 Cool Date 6/1 , 20 07 |
| | er's Designee, Title |
| Cowner or Cowner | er's Designee, Title |
| CERTIFIC | CATE OF INSERVICE INSPECTION |
| CERTIFIC I, the undersigned, holding a valid commit | CATE OF INSERVICE INSPECTION ission issued by the National Board of Boiler and Pressure |
| CERTIFIC I, the undersigned, holding a valid commit Vessel Inspectors and the State or Provin | CATE OF INSERVICE INSPECTION ission issued by the National Board of Boiler and Pressure nce of Illinois and employed by HSB CT |
| CERTIFIC I, the undersigned, holding a valid common vessel Inspectors and the State or Proving the Hartford, CT have inspected the | CATE OF INSERVICE INSPECTION ission issued by the National Board of Boiler and Pressure nce of Illinois and employed by HSB CT components described in this Owner's Report during the period |
| CERTIFIC I, the undersigned, holding a valid commit Vessel Inspectors and the State or Provin of Hartford, CT have inspected the | CATE OF INSERVICE INSPECTION ission issued by the National Board of Boiler and Pressure nce of Illinois and employed by HSB CT |
| CERTIFIC I, the undersigned, holding a valid commit Vessel Inspectors and the State or Provir of Hartford, CT have inspected the 3/10/07 to 4/20/07 | CATE OF INSERVICE INSPECTION ission issued by the National Board of Boiler and Pressure ince of Illinois and employed by HSB CT components described in this Owner's Report during the period , and state that to the best of my knowledge and belief, and taken corrective measures described in this Owner's |
| CERTIFIC I, the undersigned, holding a valid common vessel Inspectors and the State or Proving of Hartford, CT have inspected the to to the Owner has performed examinations at Report in accordance with the requirement | CATE OF INSERVICE INSPECTION ission issued by the National Board of Boiler and Pressure nce of Illinois and employed by HSB CT components described in this Owner's Report during the period , and state that to the best of my knowledge and belief, and taken corrective measures described in this Owner's |
| CERTIFIC I, the undersigned, holding a valid common vessel Inspectors and the State or Proving the Common of Hartford, CT have inspected the state of the Common of the C | CATE OF INSERVICE INSPECTION ission issued by the National Board of Boiler and Pressure nce of Illinois and employed by HSB CT components described in this Owner's Report during the period , and state that to the best of my knowledge and belief, and taken corrective measures described in this Owner's ents of the ASME Code, Section XI. |
| CERTIFIC I, the undersigned, holding a valid commit Vessel Inspectors and the State or Provin of Hartford, CT have inspected the 3/o/7 to the Owner has performed examinations at Report in accordance with the requirement By signing this certificate neither the Inspi implied, concerning the examinations and | CATE OF INSERVICE INSPECTION ission issued by the National Board of Boiler and Pressure nce of Illinois and employed by HSB_CT components described in this Owner's Report during the period , and state that to the best of my knowledge and belief, and taken corrective measures described in this Owner's ints of the ASME Code, Section XI. pector nor his employer makes any warranty, expressed or |
| CERTIFIC I, the undersigned, holding a valid commit Vessel Inspectors and the State or Provint of Hartford, CT have inspected the 3/0/7 to 4/0/7 the Owner has performed examinations at Report in accordance with the requirement By signing this certificate neither the Inspirited, concerning the examinations and Furthermore, neither the Inspector nor his | CATE OF INSERVICE INSPECTION ission issued by the National Board of Boiler and Pressure nce of Illinois and employed by HSB CT components described in this Owner's Report during the period , and state that to the best of my knowledge and belief, and taken corrective measures described in this Owner's ents of the ASME Code, Section XI. Dector nor his employer makes any warranty, expressed or d corrective measures described in this Owner's Report. |
| CERTIFIC I, the undersigned, holding a valid common Vessel Inspectors and the State or Proving of Hartford, CT have inspected the Journal to Lagrange of the Owner has performed examinations at Report in accordance with the requirement By signing this certificate neither the Inspirited, concerning the examinations and Furthermore, neither the Inspector nor his | CATE OF INSERVICE INSPECTION ission issued by the National Board of Boiler and Pressure nce of Illinois and employed by HSB_CT components described in this Owner's Report during the period , and state that to the best of my knowledge and belief, and taken corrective measures described in this Owner's ents of the ASME Code, Section XI. Dector nor his employer makes any warranty, expressed or d corrective measures described in this Owner's Report. Is employer shall be liable in any manner for any personal |

| DOCUMENT NO .: | 7.0 | REV. NO.: 0 |
|----------------|-----|-------------|
| | | |

| 1. | Owner Ex | kelon Nuclear | | * | Date <u>3/15/07</u> | | | |
|----------------|----------------------|---------------------------------|-----------------------------|---------------|--------------------------|--|-----------------------|--------------|
| | | | lame | | • | | | |
| | 4300 Wintie | ld Road, Warre | dress | | Sheet 1 | | of <u>1</u> | |
| 2. | Plant B | بر yron Nuclear Po | | | Unit 01 | | | |
| | | N | lame | | - | ······································ | | |
| | 4450 N. Gei | man Church R | | | Work Order No. | | | |
| | | Ac | ldress | | Hepair O | rganization, i | P.O. No., Job No., e | eic. |
| 3. | Work Perfor | med by Sha | w/Stone & Wel | | Type Code Symb | | | able |
| | 004000 5 | one Dood Wile | Name | | Authorization No. | | Applicable | |
| | 36400 S. ES | ssex Road, Wilr | idress | 01 | Expiration Date | Not Ap | plicable | |
| | | | | | | | | |
| 4. | Identification | n of System _ | SX (ESSENTIA | L SERVICE | 1986 Edition, 19 | 87 Addend | da (Valve) | |
| 5. | | | | | _19 <u>74</u> Edition, § | S75 Addei | ndà, <u>None</u> | Code Case |
| | | | | or Repair/Rep | placement Activity | 2001 | Edition / 2003 | Addenda |
| 6. | ١ / | XI Code Case(some of Components | , | | | | | |
| 0. | Identification | r or component | | | | | | |
| | | | | | | | Corrected, | ASME Code |
| | Name of | Name of | Manufacturer | National | Other | Year | Removed, or | Stamped |
| | Name of Component | Manufacturer | Serial No. | Board No. | Identification | Built | Installed | (Yes or No) |
| Pipe, | 3"(6-3/4") | Southwest Fabricating | 20391 | N/A | 1SXB1AB-3" | 1979 | Removed | YES |
| Valve 150# | , Gate, 3", | Flowserve | S/N: BC426 ' | N/A | 1SX275B | 2006 | Installed | YES |
| Pipe, | Seamless, 3" | Consolidated Power Supply | Ht#: D00103 | N/A | 1SX11B-3" | 2006 | Installed | NO |
| | v, Pipe, 90°,3" | Consolidated Power Supply | Ht#: S068B1A | N/A | 1SX11B-3" | 2007 | Installed | NO |
| Tee, 3" x 3 | Pipe 3" x 3" | Consolidated Power Supply | Ht#: P347G 🗸 | N/A | 1SXB1AB-3" 1SX11B-3" | 2007 | Installed | NO |
| Сар, | Pipe, 3" | Consolidated Power Supply | Ht#: S551A-17 | N/A | 1SX11B-3" | 2007 | Installed | NO |
| U-Bo | lt, Special Nuts | Bergen Power Pipe Supports | Ht#: 24993 / Ht#: 220642 | N/A | 2SX43022T | 2007 | Installed | NO |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 7. | Description | of Work <u>INS</u> | TALL PIPING, F | ITTINGS, V | ALVE, AND PIPE | SUPPOR | Γ PER EC# 361 | 557 |
| | | | | | | | | |
| 8. | Test Condu | cted: Hydrost | atic 🗌 Pr | eumatic 🗌 | Nominal Oper | ating Pres | sure 🛛 🛚 Ex | empt 🗌 |
| | VT-3 | Other [2 | Pressure | 103 | psi Tes | t Temp | 70 | δ E |
| Note | · Sunnlaman | ital cheats in for | m of lists skatch | see or drawir | nge may he used | provided (| 1) ciza ic 91% in | v 11 in (2) |

| . Remarks | 00973172-01 | | | | |
|------------------|-----------------------|--|-------------------------|---------------------|--------------|
| | | Applicable Manufacture | r's Data Reports to t | oe attached | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | CERTIFICATE OF CO | OMPLIANCE | | |
| I certify that | the statements made | e in the report are correct an | id this conforms to the | he requirements | of the ASME |
| ode, Section | XI. | | | | |
| ype Code Sy | mbol Stamp | | Not Applicable | | |
| ertificate of A | uthorization No. | | Not Applicable | | |
| gned | . SMA- | RRR COCK | | Date 4/7 | , 20 07 |
| - (2 | Owne | e or Owner's Designee, Title | | | , |
| | | | | | |
| | - | ERTIFICATE OF INSERV id commission issued by the or Province of Illino | e National Board of I | Boiler and Press | |
| of Hartfo | rd, CT have insper | cted the components descr | ibed in this Owner's | Report during th | e period |
| 2/12/07 | to 6/7/0 | 7 , and state that to t | he best of my knowl | edge and belief, | |
| the Owner | has performed examin | nations and taken corrective | | - | s |
| | • | quirements of the ASME Co | | | |
| • | | the Inspector nor his emplo | | rantv. expressed | or |
| | | tions and corrective measu | • | • | |
| · | - | or nor his employer shall be | | • | |
| | • | ess of any kind arising from | • | • • | |
| 01 | Mush | Commission | | | |
| 726 | Inspector's Signature | 3 | /B.E | State Province, and | Endorsements |
| Date: | Oune 7 | 20 07 | · | · | |
| Date. | YMTU ! | 20 07 | | | |

| DOCUMENT NO.: | 7.1 | REV. NO.: 0 |
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| | | |

| 1. | Owner <u>Ex</u> | elon Nuclear | | | Date 03/15/07 | | | |
|----------------------|--|---------------------------------|----------------------------|--------------|------------------------------------|-------------------|---------------------------|-------------------------|
| | 4300 Winfiel | Nam d Road, Warrenv i | ille, IL | | Sheet 1 | of | 1 | |
| 2. | Plant By | Addre ron Nuclear Powe | | | Unit 02 | | | |
| | 4450 N. Gerr | Nam nan Church Road | | | Work Order No. 00 | 0973172-0 |)1 | |
| • | | Addre | ss | - | Repair Orga | anization, P.0 | D. No., Job No., ε | etc. |
| 3. | Work Perforn | ned by <u>Shaw/</u> Nai | Stone & Webste | <u>r</u> | Type Code Symbol Authorization No. | | Not Application | able |
| | 36400 S. Ess | sex Road, Wilmin | gton, IL 60481 | | | Not Appl | | |
| 4. | Identification | Addre | ss (ESSENTIAL SI | EDVICE | WATED) | | | |
| 4 . 5. | | | | | 19 74 Edition, S74 | A Addond | a None | Code Case |
| J . | (b) Applicab | le Edition of Section | n XI Used for Re | | placement Activity | | | |
| 6. | · • | XI Code Case(s) of Components | NONE | | | | | |
| | | | | National | | | Corrected, Removed, or | ASME Code Stamped |
| | Name of Component | Name of Manufacturer | Manufacturer Serial No. | Board No. | Other Identification | Year Built | Installed | (Yes or No) |
| | Bolting, 1/2" g. 212N | ITT Grinnell | N/A | N/A | 2SX43002R FIG. 212N CLAMP | 1979 | Removed | NO |
| | Nut, 1/2" ig. 212N | ITT Grinnell | N/A | N/A | 2SX43002R FIG. 212N CLAMP | 1979 | Removed | NO |
| | Nut, Jam, 1/2" ig. 212N | ITT Grinnell | N/A | N/A | 2SX43002R FIG. 212N CLAMP | 1979 | Removed | NO |
| | Nut, Heavy SA194 2H, 1/2"- | Nova Machine Products | Ht#: B87035 | N/A | 2SX43002R CAT ID 37027 | 2007 | Installed | NO |
| | Nut, Hex, Jam, 4 2H 1/2"-13 | Nova Machine Products | Ht#: DQS | N/A | 2SX43002R CAT ID 36995 | 1992 | Installed | NO |
| | Screw, Heavy 1/2"X 2-1/2 Lg., 3 B7 | Nova Machine Products | Ht#: US Y06420 | N/A | 2SX43002R CAT ID 23093 | 2003 | Installed | NO |
| | Screw, Heavy 1/2"X 3 Lg., 3 B7 | Nova Machine Products | Ht#: US Y06420 | N/A | 2SX43002R CAT ID 23225 | 2003 | Installed | NO |
| | | | | | | | | |
| 7. | Description of | Work REPLAC | CE CLAMP BOL | TING FC | R SUPPORT 2SX4 | 3002R | | |
| 3. | Test Conducto | ed: Hydrostatic Other 🛚 | Pressure _ | atic N/A | • | g Pressur emp. | | mpt □ |

| | | Annilla bia Manusa at wasta Date | - Maradalla ha alla abad |
|--|--|--|---|
| | | Applicable Manufacturer's Data | a Heports to be attached |
| | | | |
| | | | |
| | | | |
| | | | |
| | | CERTIFICATE OF COMPLI | ANCE |
| I certify that the | he statements made | in the report are correct and this o | conforms to the requirements of the ASME |
| ode, Section > | XI. | | |
| ype Code Sym | nbol Stamp | Not A | pplicable |
| ertificate of 🗛 | thorization No. | No | t Applicable |
| igned | 5000 | RRR Coord | Date 6/7 , 20 07 |
| (| (Wine | or Owner's Designee, Title | · |
| | | PTIFICATE OF INCEPVIOE IN | ICDECTION |
| | igned, holding a valid | RTIFICATE OF INSERVICE IN d commission issued by the Nation or Province of Illinois | nal Board of Boiler and Pressure |
| Vessel Inspe | igned, holding a valie | d commission issued by the Nation or Province of Illinois | nal Board of Boiler and Pressure and employed by HSB CT |
| | igned, holding a valid ectors and the State of d, CT have inspec | d commission issued by the Nation or Province of Illinois oted the components described in the component described | nal Board of Boiler and Pressure and employed by <u>HSB CT</u> this Owner's Report during the period |
| Vessel Inspe of Hartford | igned, holding a valid ectors and the State of d, CT have inspect | d commission issued by the Nation or Province of Illinois or the components described in the best of t | nal Board of Boiler and Pressure and employed by HSB CT this Owner's Report during the period of my knowledge and belief, |
| Vessel Inspe of Hartford 3/5/07 the Owner ha | igned, holding a valid ectors and the State of d, CT have inspect to 6/2/ as performed examin | d commission issued by the Nation or Province of Illinois oted the components described in the latter of the best nations and taken corrective measured. | nal Board of Boiler and Pressure and employed by HSB CT this Owner's Report during the period of my knowledge and belief, ures described in this Owner's |
| Vessel Inspe of Hartford 3/5/07 the Owner has Report in according | igned, holding a valid ectors and the State of d, CT have inspect to 6/2/as performed examinated and the recordance with the recordance | d commission issued by the Nation or Province of Illinois oted the components described in the latter of the best nations and taken corrective measurements of the ASME Code, Se | nal Board of Boiler and Pressure and employed by HSB CT this Owner's Report during the period of my knowledge and belief, ures described in this Owner's action XI. |
| Vessel Inspector of Hartford 3/5/07 the Owner has Report in accomply signing the | igned, holding a validectors and the State of the decision of the state of | d commission issued by the Nation or Province of Illinois cted the components described in the part of the ASME Code, Sethe Inspector nor his employer materials. | nal Board of Boiler and Pressure and employed by HSB CT this Owner's Report during the period of my knowledge and belief, ures described in this Owner's action XI. alkes any warranty, expressed or |
| Vessel Inspector The Owner has Report in according to the implied, conditions. | igned, holding a validectors and the State of the decision of the state of the decision of the decision of the decision of the decision of the examination of the exa | d commission issued by the Nation or Province of Illinois oted the components described in the latter of the Latter and taken corrective measurements of the ASME Code, See the Inspector nor his employer mattions and corrective measures described by the Nations and taken corrective mea | nal Board of Boiler and Pressure and employed by HSB CT this Owner's Report during the period of my knowledge and belief, ures described in this Owner's action XI. akes any warranty, expressed or cribed in this Owner's Report. |
| vessel Inspector f Hartford J/5/07 the Owner has Report in accommodate the signing the implied, conditions furthermore, | igned, holding a validectors and the State of the control of the state of the control of the con | d commission issued by the Nation or Province of Illinois cted the components described in the part of the Asmed Code, Se the Inspector nor his employer matters and corrective measures described in the Asmed Code, Se the Inspector nor his employer matters and corrective measures described in the Inspector nor his employer shall be liable in the Inspector nor his employer nor his employ | and Board of Boiler and Pressure and employed by HSB CT this Owner's Report during the period of my knowledge and belief, ures described in this Owner's action XI. alkes any warranty, expressed or cribed in this Owner's Report. In any manner for any personal |
| vessel Inspector f Hartford J/5/07 the Owner has Report in accommodate the signing the implied, conditions furthermore, | igned, holding a validectors and the State of the control of the state of the control of the con | d commission issued by the Nation or Province of Illinois otted the components described in the components and taken corrective measurements of the ASME Code, Sethe Inspector nor his employer matter and corrective measures described in the components of the ASME code, Sethe Inspector nor his employer matter and corrective measures described in the components of the components described in the components described in the components of the components described in the components of the co | nal Board of Boiler and Pressure and employed by HSB CT this Owner's Report during the period of my knowledge and belief, ures described in this Owner's action XI. akes any warranty, expressed or cribed in this Owner's Report. In any manner for any personal ected with this inspection. |
| vessel Inspector f Hartford J/5/07 the Owner has Report in accommodate the signing the implied, concurrence, | igned, holding a validectors and the State of the control of the state of the control of the con | d commission issued by the Nation or Province of Illinois cted the components described in the components and taken corrective measurements of the ASME Code, Set the Inspector nor his employer mations and corrective measures described in the components of the ASME code, Set the Inspector nor his employer mations and corrective measures described in the components of the commissions | and Board of Boiler and Pressure and employed by HSB CT this Owner's Report during the period of my knowledge and belief, ures described in this Owner's action XI. alkes any warranty, expressed or cribed in this Owner's Report. In any manner for any personal |

(Final)

| DOCUMENT NO.: | 4.1 | REV. NO.: 0 | |
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| | Exelon Nuclea | | | Date <u>04/1</u> | 1/07 | | |
|-----------------------|----------------------|------------------------------|--|--|---------------|--|---------------------------------------|
| 4300 Win | field Road, Wa | Name rrenville, IL | | Sheet | 1 . | of | 1 |
| | | Address | ······································ | - | | | |
| Plant _ | Byron Nuclear | Power Station Name | | Unit <u>02</u> | | | |
| 4450 N. G | erman Church | Road, Byron, | L | Work Order | | | |
| | | Address | | Rep | air Organizat | ion, P.O. No., Job N | lo., etc. |
| Work Perf | ormed by SH | AW/STONE & \ | VEBSTER | | | np <u>Not Ap</u> r | olicable |
| 36400 S | Feesy Road W | Name 'ilmington, IL 6 | 0481 | Authorization Expiration Da | | ot Applicable | |
| 30400 3. 1 | LSSEX HOAU, W | Address | | Expiration De | 1101 | Applicable | |
| Identificati | ion of System | ESSENTIAL S | SERVICE WAT | ER(SX) | | | |
| (b) Applic | | Section XI Used e(s) NONE | | 19 <u>74</u> Edition, placement Activit | | | |
| Name of | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Corrected, Removed, or Installed | ASME Code Stamped (Yes or No |
| JTTERFLY FER VALVE | JAMESBURY CORP | ND48858-20A | N/A | 2SX033 | 1978 | REMOVED | YES |
| JTTERFLY FER VALVE | ENERTECH | 11535 | N/A | 2SX033 | 2007 | INSTALLED | YES |
| | | | , | | | | |
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| | | | | | | | |
| | | | | | | | |
| Description | n of Work RI | EPLACE BUTTE | ERFLY VALVE | 2SX033 | | | |

| | Applicable Manufacturer's Data Reports to be attached |
|--|---|
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| | |
| | |
| nome, and the second of the se | CERTIFICATE OF COMPLIANCE |
| I certify that the statements made | e in the report are correct and this conforms to the requirements of the ASME |
| Code, Section XI. | · |
| Type Code Symbol Stamp | Not Applicable |
| Certificate of Authorization No. | Not Applicable |
| Signed & SOA | RRR Capad Date 5/18 , 20 07 |
| Own | ner or Owner's Designee, Title |
| | |
| | |
| CE | ERTIFICATE OF INSERVICE INSPECTION |
| | |
| I, the undersigned, holding a val | id commission issued by the National Board of Boiler and Pressure |
| I, the undersigned, holding a val Vessel Inspectors and the State | id commission issued by the National Board of Boiler and Pressure or Province of Illinois and employed by HSB CT |
| Vessel Inspectors and the State | or Province of Illinois and employed by HSB CT |
| Vessel Inspectors and the State of Hartford, CT have inspe | or Province of <u>Illinois</u> and employed by <u>HSB CT</u> ected the components described in this Owner's Report during the period |
| Vessel Inspectors and the State of Hartford, CT have inspectors. | or Province of Illinois and employed by HSB CT ected the components described in this Owner's Report during the period , and state that to the best of my knowledge and belief, |
| Vessel Inspectors and the State of Hartford, CT have inspectors and the State of Hartford, CT have inspectors to 5./8.0 the Owner has performed examined. | or Province of Illinois and employed by HSB CT ected the components described in this Owner's Report during the period , and state that to the best of my knowledge and belief, inations and taken corrective measures described in this Owner's |
| Vessel Inspectors and the State of Hartford, CT have inspectors and the State of Hartford, CT have inspectors to S./8.07 to S./8.07 the Owner has performed examine Report in accordance with the results. | or Province of Illinois and employed by HSB CT ected the components described in this Owner's Report during the period 2, and state that to the best of my knowledge and belief, inations and taken corrective measures described in this Owner's equirements of the ASME Code, Section XI. |
| Vessel Inspectors and the State of Hartford, CT have inspectors. As a serior of the Owner has performed examined a signing this certificate neither. | or Province of Illinois and employed by HSB CT ected the components described in this Owner's Report during the period , and state that to the best of my knowledge and belief, inations and taken corrective measures described in this Owner's |
| Vessel Inspectors and the State of Hartford, CT have inspectors and the State of Hartford, CT have inspectors to S./8.2 the Owner has performed examined Report in accordance with the result of the State of the Sta | or Province of Illinois and employed by HSB CT ected the components described in this Owner's Report during the period 2 , and state that to the best of my knowledge and belief, inations and taken corrective measures described in this Owner's equirements of the ASME Code, Section XI. |
| Vessel Inspectors and the State of Hartford, CT have inspectors and the State of Hartford, CT have inspective to S./4.07 to S./8.0 the Owner has performed examinate Report in accordance with the resulting the Examinate Inspective to the Inspectiv | or Province of Illinois and employed by HSB CT exted the components described in this Owner's Report during the period 2, and state that to the best of my knowledge and belief, inations and taken corrective measures described in this Owner's equirements of the ASME Code, Section XI. The Inspector nor his employer makes any warranty, expressed or ations and corrective measures described in this Owner's Report. |
| Vessel Inspectors and the State of Hartford, CT have inspectors and the State of Hartford, CT have inspective to S./4.07 to S./8.0 the Owner has performed examinate Report in accordance with the resulting the Evaminate Turthermore, neither the Inspection | or Province of Illinois and employed by HSB CT exted the components described in this Owner's Report during the period 2 , and state that to the best of my knowledge and belief, inations and taken corrective measures described in this Owner's equirements of the ASME Code, Section XI. In the Inspector nor his employer makes any warranty, expressed or ations and corrective measures described in this Owner's Report. For nor his employer shall be liable in any manner for any personal |
| Vessel Inspectors and the State of Hartford, CT have inspectors and the State of Hartford, CT have inspective to S./4.07 to S./8.0 the Owner has performed examinated the Properties of the Owner has performed examinated the Inspective to the Inspection of the Inspe | or Province of Illinois and employed by HSB CT exted the components described in this Owner's Report during the period 27, and state that to the best of my knowledge and belief, inations and taken corrective measures described in this Owner's equirements of the ASME Code, Section XI. The Inspector nor his employer makes any warranty, expressed or ations and corrective measures described in this Owner's Report. For nor his employer shall be liable in any manner for any personal loss of any kind arising from or connected with this inspection. |

| DOCUMENT NO.: | 4.1 | | REV. NO.: 0 |
|---------------|-----|--|-------------|
| | | | |

| 1. | Owner _ | Exelon Nuclea | · · · · · · · · · · · · · · · · · · · | | Date 04/11 | /07 | | | |
|---------------------------------|---------------------------------------|-------------------------|---------------------------------------|--------------------------|--|---------------|---|--|--|
| | 4300 Win | field Road, Wa | | | Sheet | 1 | of | 1 | |
| 2. | Plant | Byron Nuclear | | <u> </u> | Unit 02 | | | | |
| | 4450 N. G | erman Church | Name Road, Byron, Address | <u>IL</u> | Work Order N | | 8 856-01 ion, P.O. No., Job N | o etc. | |
| 3. | Work Perl | formed by SH | AW/STONE & \ | WEBSTER | Type Code Symbol Stamp Not Applicable | | | | |
| | 36400 S. | Essex Road, W | Name lilmington, IL 6 Address | 0481 | Expiration Dat | | ot Applicable Applicable | | |
| 4. | Identificati | ion of System | ESSENTIAL S | SERVICE WAT | ER(SX) | | | | |
| 5.6. | (b) Applic | | Section XI Used e(s) NONE | | 19 <u>74</u> Edition, placement Activity | | | Code Case Addenda | |
| | Name of omponent | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Corrected, Removed, or Installed | ASME Code Stamped (Yes or No) | |
| Bolt , | Stud ' X 19 3/4" | Texas Bolt Company | HT: 90295 Trace: GT45 | N/A | 2SX033 #15 | 1977 | Removed | No | |
| Bolt , 1 1/2' | Stud ' X 19 3/4" | Nova Machine | Ht.#: 53669 Trace: R694 | N/A | 2SX033 #15 | 2005 | Installed | No | |
| Bolt , 1 1/2' | Stud ' X 7 3/4" | Texas Bolt Company | HT: 90295 Trace: GT45 | N/A | 2SX033 #15A | 1977 | Removed | No | |
| Bolt , 1 1/2' | Stud ' X 7 3/4" | Nova Machine | Ht.#: 53669 Trace: R694 | N/A | 2SX033 #15A | 2005 | installed | No | |
| | · · · · · · · · · · · · · · · · · · · | | | | | | | | |
| | | | , . | | | | | | |
| | | | | | | | | | |
| ·· | | | | | | | | | |
| | | | | | | | | | |
| 7. | Description REPLACE | | EPLACE TWO I | FLANGE STUD | S IN SUPPORT O | F VALVE | 2SX033 VALVE | | |
| 8. | Test Cond | ucted: Hydro: Other | | Pneumatic [| Nominal Opera | iting Press | | mpt □ PF | |
| A l-4 | Suppleme | ental chaote in fo | rm of linta alcate | oboo or drowin | as may be used in | rouidad (4 | l) oire is O1/ in . | . 44 im (O) | |

| €. | Remarks | 97098856-01 | | | |
|---------------|---------------|--|--|-----------------------|--|
| | | | Applicab | le Manufacturer's I | Data Reports to be attached |
| _ | | | V-1 | | And the second of the second o |
| - | | | ************************************** | | |
| _ | | | | | |
| | | | | | |
| | | | | | |
| | | | | ICATE OF COM | |
| l c | ertify that t | he statements ma | de in the repor | t are correct and th | is conforms to the requirements of the ASMI |
| ode | e, Section 2 | <i.< td=""><td></td><td></td><td></td></i.<> | | | |
| уре | Code Syn | nbol Stamp | | No | ot Applicable |
| erti | ificate of A | thorization No. | | | Not Applicable |
| ign | | 1 5x | RRR | Coral | Date <u>5/18</u> , 20 <u>0</u> 7 |
| · J ·· | | CAT CON | vner or Owner's D | Jesignee Title | <i></i> |
| | | ~ | | • | |
| | | <u></u> | | | |
| | | | | | |
| | | C | ERTIFICATI | E OF INSERVICE | INSPECTION |
| ı | the unders | _ | | | tional Board of Boiler and Pressure |
| | | ectors and the Stat | | - | and employed by HSB CT |
| | - | | | | in this Owner's Report during the period |
| | | | | • | |
| | | | | | est of my knowledge and belief, |
| th | e Owner h | as performed exar | ninations and | taken corrective me | easures described in this Owner's |
| R | eport in ac | cordance with the | requirements of | of the ASME Code, | Section XI. |
| B | y signing th | is certificate neith | er the Inspecto | or nor his employer | makes any warranty, expressed or |
| im | nplied, con | erning the examin | ations and co | rrective measures of | described in this Owner's Report. |
| F | urthermore | , neither the Inspe | ctor nor his em | nployer shall be liab | ole in any manner for any personal |
| in | jury or prop | perty damage or a | loss of any kin | d arising from or co | onnected with this inspection. |
| | Oles | Miller | • | - | 166-1854 |
| | - | Inspector's Signature | | • | National Board, State Province, and Endorsements |
| D: | ate: 7 | 1164 18 | .20 17 | | |
| _ | ~.~ | THE TO | ., - | | |

| DOCUMENT NO.: | 7.0 | REV. NO.: 0 |) |
|---------------|-----|-------------|---|
|---------------|-----|-------------|---|

| 1. | Owner _ | Exelon Nuclea | <u>ir </u> | | Date <u>4/14/07</u> | | | |
|------------------|---|-----------------------------|--|--------------------------|--|---------------|--|--|
| | 4300 Winf | ield Road, Wa | | | Sheet 1 | | of <u>2</u> | |
| 2. | Plant _ | Byron Nuclear | Address Power Station | | Unit <u>02</u> | | | · |
| | 4450 N. G | | Name Road, Byron, I | L . | Work Order No. | | | |
| 3. | Work Perfe | | Address Shaw/Stone & We | bster | Type Code Symb | | P.O. No., Job No., | |
| | Name 36400 S. Essex Road, Wilmington, IL 60481 | | | | Authorization No. Expiration Date | Not | Applicable pplicable | aute |
| 4. | Identification | on of System | Address ESSENTIAL | SERVICE WA | TER | | | |
| | (b) Applic(c) Section | | Section XI Used e(s) NONE | | 1977 Edition W 19 <u>74</u> Edition, <u>S</u> placement Activity | 75 Adde | nda, <u>None</u> | Code Case Addenda |
| | ame of | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Corrected, Removed, or Installed | ASME Code Stamped (Yes or No) |
| 3", 150 V.N.R | LB, .F. FLG. | Ladish Co. | RT2T Ht#: 6018347 | N/A | 2SX98BA | 1983 | Removed | No |
| 3", 150 V.N.R | LB, .F. FLG. | Consolidate Power Supply | Ht#: S1324 | N/A | CAT ID # 25020 2SX98BA | 2003 | Installed | No |
| X 2 S | SWAGE E | Chicago Tube & Iron | D20 Ht#: N53110 | N/A | 2SX98BA | 1983 | Removed | No |
| NPPL | | Consolidate Power Supply | Ht#: 2542ANB | N/A | CAT ID # 43064 2SX98BA | 2004 | Installed | No |
| | 0#, S.W. 90 ELBOW (2) | Bonney Forge | Lot#: M240 | N/A | 2SX98BA | 1977 | Removed | No |
| | 0#, S.W. 90 ELBOW (2) | Consolidate Power Supply | Lot#: 76259 | N/A | CAT ID # 47207 2SX98BA | 2006 | Installed | No |
| " SCH | 1. 80 PIPE | Gulf States Tube Div | Ht. Code: AA | N/A | 2SX98BA | 1977 | Removed | No |
| " SCH | I. 80 PIPE | Consolidate Power Supply | HT: A82900 | N/A | CAT ID # 24507 2SX98BA | 2006 | Installed | No |
| _ | Description Test Condu | | static | Pneumatic 🗌 | • | ting Pres | | empt 🗌 |

| 9. | Remarks | Work Order No | . 99217319-01 | | | |
|-------|---------------|---------------------------------------|--------------------|---|--|---|
| | | | | | Data Reports to be attached | |
| _ | Replaced | portion of pipe sp | ool S-SX-100-1 | 01-1 from flange | to FW4017 excluding valve 2SX2185A | <u>1. </u> |
| _ | Replaced | portion of pipe sp | ool S-SX-100-1 | 01-2 from flange | to FW4019 including valve 2SX2185B | |
| _ | | | | | | |
| - | | | ······ | | | |
| | | | CERTIFI | CATE OF COM | IPLIANCE | |
| l ce | ertify that t | he statements ma | de in the report | are correct and t | his conforms to the requirements of the | ASME |
| | , Section | | • | | • | |
| | • | nbol Stamp | | N | lot Applicable | |
| | - | ythorization No. | | - | Not Applicable | |
| Signe | | 1 5 mg | ARR C | porl | Date 5/17 , 2 | 0 07 |
| O.g | | (X) -11/20 | wner)or Owner's De | | | <u> </u> |
| | | A C | | | | |
| * | | · · · · · · · · · · · · · · · · · · · | | · | | |
| | | | | | * | |
| | | (| CERTIFICATE | OF INSERVIC | E INSPECTION | |
| l. t | he unders | igned, holding a v | alid commission | n issued by the N | ational Board of Boiler and Pressure | |
| | | ectors and the Sta | | | and employed by HSB CT | |
| of | • | | | *************************************** | d in this Owner's Report during the per | iod |
| 4 | Marlas | to 5/17/ | <i>,</i> | | best of my knowledge and belief, | |
| | Chuparh | | | | neasures described in this Owner's | |
| | | · · | | | | |
| | • | cordance with the | · | | | |
| | | | • | • • | r makes any warranty, expressed or | |
| | • | • | | | described in this Owner's Report. | |
| | | | • | • | ble in any manner for any personal | |
| injı | ury or prop | erty damage or a | loss of any kind | • | connected with this inspection. | |
| | Holy | MAGA | | Commissions | 166-1254 | |
| | • | Inspector's Signature | | | National Board, State Province, and Endors | ements |
| Da | ite: | 114 17 | _, 20 <u>07</u> | _ | | |
| | | _ | | | | |

FORM NIS-2 SUPPLEMENTAL SHEET

| 1. | Owner | Exelon N | luclear | | Date | 4/14/ | 07 | | | | |
|----|--|---|-------------------|----------------------|---------|--------------------------------|-----------------|----------------|------------------|-----------|--|
| | | · · · · · · · · · · · · · · · · · · · | Name | | | | | | | | |
| | 4300 Win | field Road, | Warrenville, | L | Sheet | Ì | 2 | of | | 2 | |
| | | | Address | | | | | | | | |
| 2. | Plant | Byron N | uclear Powe | ^r Station | Unit | 02 | | | | | |
| | | Name | | | | | | | | | |
| | 4450 N. German Church Road, Byron, IL | | | | | Work Order No. 99217319-01 | | | | | |
| | | | Address | | | Rep | air Organiz | zation, P.O. N | lo., Job No | o., etc. | |
| 3. | Work Performed by Shaw/Stone & Webster | | | & Webster | Туре | Code S | ymbol St | amp I | Not App | licable | |
| | Name | | | | Autho | rization | No. | Not Appli | cable | | |
| | 36400 S. | 36400 S. Essex Road, Wilmington, IL 60481 | | | | Expiration Date Not Applicable | | | | | |
| | | | Address | | | | | | | | |
| 4. | Identificati | ion of Syster | n ESSEN | ITIAL SERVICE W | ATER | | | | | | |
| | | | | | | Edition | - , | | | | |
| 5. | | | | | | | | | | Code Cas | |
| | (b) Applic | cable Edition | of Section X | Used for Repair/Re | eplacem | ent Act | ivity <u>20</u> | 01 Editio | n / 200 3 | 3 Addenda | |
| | (c) Section | on XI Code (| Case(s) <u>NO</u> | NE | | | | | | | |
| 6. | Identificati | ion of Compo | onents | | | | | | | | |

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Corrected, Removed, or Installed | ASME Code Stamped (Yes or No) |
|-------------------------------------|-----------------------------|----------------------------|--------------------------|-----------------------------|---------------|--|--|
| 3", 150LB, W.N.R.F. FLG. | Ladish Co. | RT2T Ht#: 6018347 | N/A | 2SX98BB | 1983 | Removed | No |
| 3", 150LB, W.N.R.F. FLG. | Consolidate Power Supply | Ht#: S1324 ~ | N/A | CAT ID # 25020 2SX98BB | 2003 | Installed | No |
| 3 X 2 SWAGE NIPPLE | Chicago Tube & Iron | D20 Ht#: N53110 | N/A | 2SX98BB | 1983 | Removed | No |
| 3 X 2 SWAGE NIPPLE | Consolidate Power Supply | Ht#: 2542ANB * | N/A | CAT ID # 43064 2SX98BB | 2004 | Installed | No |
| 2" 3000#, S.W. 90 DEG. ELBOW (2) | Bonney Forge | Lot#: M240 | N/A | 2SX98BB | 1977 | Removed | No |
| 2" 3000#, S.W. 90 DEG. ELBOW (2) | Consolidate Power Supply | Lot#: 76259 * | N/A | CAT ID # 47207 2SX98BB | 2006 | Installed | No |
| 2" SCH. 80 PIPE | Gulf States Tube Div | Ht. Code: AA | N/A | 2SX98BB | 1977 | Removed | No |
| 2" SCH. 80 PIPE | Consolidate Power Supply | HT: A82900 | N/A | CAT ID # 24507 2SX98BB | 2006 | Installed | No |
| 2", 150 LB. BALL VALVE | ITT Grinnell | 80-52894-5-91 | N/A | 2SX2185B | 1981 | Removed | Yes |
| 2", 150 LB. BALL VALVE | ITT Grinnell | 733744-001-002 | N/A | CAT ID# 1393954 2SX2185B | 2004 | Installed | Yes |
| | | · | | | | | |
| | | | | | | , | |
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| | | | | | | | |

| | | | _ |
|---------------|-----|-------------|---|
| DOCUMENT NO.: | 7.0 | REV. NO.: (|) |

| 1. | Owner _ | Exelon Nuclear | | | Date <u>4/14/07</u> | · · · · · · · · · · · · · · · · · · · | | |
|----------|--|------------------------------|----------------------------|--------------------------|-----------------------------------|---------------------------------------|--------------------------|------------------------|
| | 4300 Wint | field Road, Wa | | | Sheet1 | | of2 | |
| 2. | Plant | | Address Power Station | | Unit 02 | | | |
| | 4450 N. G | erman Church | Name Road, Byron, I | L | Work Order No. | 9921732 | 2-01/02 | |
| • | 1,100 111 0 | | Address | | | | P.O. No., Job No., | etc. |
| 3. | Work Perfe | ormed by _S | Shaw/Stone & V | /ebster_ | Type Code Symbo | | | able |
| | 36400 S F | Essey Road W | Name /ilmington, IL 6 | 0481 | Authorization No. Expiration Date | | Applicable oplicable | |
| • | 30400 3. 1 | | Address | | Expiration Date | 1101 7 | opiicable | |
| 4. | Identification | on of System | ESSENTIAL | SERVICE WA | TER | | | |
| 5. 6. | (b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition / 2003 Addenda (c) Section XI Code Case(s) NONE | | | | | | | |
| | | | | | | | Corrected, | ASME Code |
| | lame of omponent | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Removed, or Installed | Stamped (Yes or No) |
| 3", 150 | | Ladish Co. | RT2T HT: 6018347 | N/A | 2SXC4AA | 1983 | Removed | No |
| 3", 150 | | Consolidated Power Supply | Ht#: 3M40774 | N/A | CAT ID # 25020 2SXC4AA | 2003 | Installed | No |
| 3 X 2 S | SWAGE .E | Chicago Tube & Iron | D20 HT: N53110 | N/A | 2SXC4AA | 1983 | Removed | No |
| X 2 S | SWAGE .E | Consolidated Power Supply | Ht#: 2542ANB | N/A | CAT ID # 43064 2SXC4AA | 2004 | Installed | No |
| | 0#, S.W. 90 ELBOW (3) | Bonney Forge | M240 | N/A | 2SXC4AA | 1977 | Removed | No |
| 2" 300 | 0#, S.W. 90 ELBOW | Consolidated Power Supply | HT: 49870 - Lot#: 76150 | N/A | CAT ID # 47207 2SXC4AA | 2007 | Installed | No |
| e" SCI | 1. 80 PIPE | Gulf States Tube Div | AA | N/A | 2SXC4AA | 1977 | Removed | No |
| " SCI | 1. 80 PIPE | Consolidated Power Supply | Ht#: A82900 ~ | N/A | CAT ID # 24507 2SXC4AA | 2006 | Installed | No |
| | | | | | | | | |
| 7. | 7. Description of Work REPLACED PIPING AND FITTINGS | | | | | | | |
| - 3. | | | | | | | | |
| | Other Pressure 78 psi Test Temp. 68 °F | | | | | | | |

| 9. | Remarks | Work Order N | o. 99217322-01 | | | | |
|-------|---|---------------------|---------------------------------------|---------------------|---------------------------------|------------------|--|
| | DEDI ACE | D PIPE SPOOL | • • | | Data Reports to be attached | THEIR ENTIRETY | |
| | REPLACED PIPE SPOOLS S-SX-100-100-2A, S-SX-100-100-3, AND S-SX-100-100-6 IN THEIR ENTIRETY. | | | | | | |
| | REPLACE | D PIPE SPOOL | S-SX-100-100-4/ | A FROM FW4006 | TO VALVE 2SX2167A. | | |
| | ** ORIGINAL VALVES 2SX2167A AND 2SX2167B WERE REINSTALLED. | | | | | | |
| | | | | | | | |
| | | | | | | | |
| İ | | | CERTIFIC | CATE OF COM | PLIANCE | | |
| 1. | certify that t | he statements m | ade in the report | are correct and th | is conforms to the requireme | ents of the ASME | |
| Coc | le, Section) | KI. | | | | | |
| Тур | e Code Sym | nbol Stamp | | No. | ot Applicable | | |
| Cer | tificate of Au | uttorization No. | | | Not Applicable | | |
| Sigr | ned | the SA | V RRA | Conci | Date _ 5/ | 77 , 20 07 | |
| | | | Owner's Des | signee, Title | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | <u> </u> | | | |
| | | | | OF INSERVICE | | | |
| | | - | | | tional Board of Boiler and Pr | | |
| \ \ \ | • | | ate or Province of | | | SB CT | |
| ° | f Hartfor | d, CT have ins | • / | | in this Owner's Report durin | • | |
| | 11/31/06 | to _ <i>5/i7</i> | | | est of my knowledge and bel | | |
| tl | he Owner ha | as performed ex | aminations and ta | ken corrective me | easures described in this Ow | ner's | |
| F | Report in acc | cordance with the | requirements of | the ASME Code, | Section XI. | | |
| E | By signing th | is certificate neit | her the Inspector | nor his employer | makes any warranty, expres | sed or | |
| ir | mplied, cond | erning the exam | inations and corre | ective measures o | described in this Owner's Re | oort. | |
| F | urthermore, | , neither the Insp | ector nor his emp | loyer shall be liab | le in any manner for any per | sonal | |
| ir | njury or prop | erty damage or | a loss of any kind | arising from or co | onnected with this inspection | • | |
| | QUIM | Milly | · · · · · · · · · · · · · · · · · · · | Commissions | 166-1254 | | |
| | 7 | Inspector's Signatu | ·e | | National Board, State Province, | and Endorsements | |
| | Date: | may 17 | _ , 20 <u>07</u> | _ | | | |

FORM NIS-2 SUPPLEMENTAL SHEET

| 1. | Owner | Exelon Nuclear_ | Date 4/14/07 | | | |
|----|--------------|-------------------------------------|--|--|--|--|
| | 4200 Win | Name field Road, Warrenville, IL | Sheet 2 of 2 | | | |
| | 4300 WIII | Address | Silect 2 oi 2 | | | |
| 2. | Plant | Byron Nuclear Power Station | Unit 02 | | | |
| | | Name | | | | |
| | 4450 N. G | ierman Church Road, Byron, IL | Work Order No. 99217322-01/02 | | | |
| | | Address | Repair Organization, P.O. No., Job No., etc. | | | |
| 3. | Work Perf | ormed by Shaw/Stone & Webster Name | Type Code Symbol Stamp Not Applicable Authorization No. Not Applicable | | | |
| | 36400 S. I | Essex Road, Wilmington, IL 60481 | Expiration Date Not Applicable | | | |
| | | Address | | | | |
| 4. | Identificati | on of System ESSENTIAL SERVIC | E WATER | | | |
| 5. | (b) Applic | | on III 19 74 Edition, S75 Addenda, None Code Case air/Replacement Activity 2001 Edition / 2003 Addenda | | | |
| 6. | • • | on of Components | | | | |

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Corrected, Removed, or Installed | ASME Code Stamped (Yes or No) |
|-------------------------------------|------------------------------|----------------------------|--------------------------|---------------------------|---------------|--|--|
| 3", 150LB, W.N.R.F. FLG. | Ladish Co. | RT2T HT: 6018347 | N/A | 2SXC4AB | 1983 | Removed | No |
| 3", 150LB, W.N.R.F. FLG. | Consolidated Power Supply | Ht#: 3M40774 | N/A | CAT ID # 25020 2SXC4AB | 2003 | Installed | No |
| 3 X 2 SWAGE NIPPLE | Chicago Tube & Iron | D20 HT: N53110 | N/A | 2SXC4AB | 1983 | Removed | No |
| 3 X 2 SWAGE NIPPLE | Consolidated Power Supply | Ht#: 2542ANB | N/A | CAT ID # 43064 2SXC4AB | 2004 | Installed | No |
| 2" 3000#, S.W. 90 DEG. ELBOW (3) | Bonney Forge | M240 | N/A | 2SXC4AB | 1977 | Removed | No |
| 2" 3000#, S.W. 90 DEG. ELBOW | Consolidated Power Supply | HT: 49870 Lot#: 76150 | N/A | CAT ID # 47207 2SXC4AB | 2007 | Installed | No |
| 2" SCH. 80 PIPE | Gulf States Tube Div | AA | N/A | 2SXC4AB | 1977 | Removed | No |
| 2" SCH. 80 PIPE | Consolidated Power Supply | Ht#: A82900 | N/A | CAT ID # 24507 2SXC4AB | 2006 | Installed | No |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | , | | | | | · | |

(Final)

| Owner E | xelon Nuclear | | | Date 06/29/06 | | _ | | | | |
|--|--|---|---|--|---------------------------------------|--|--|--|--|--|
| | | Name | | | | | | | | |
| 4300 Winf | eld Road, War | | · | Sheet 1 | | of <u>1</u> | | | | |
| Plant I | ر Byron Nuclear | Address Power Station | | Unit 0 | | | | | | |
| i idirit | yron naoicar | Name | | Office O | | | | | | |
| 4450 N. Ge | erman Church | Road, Byron, II | | Purchase Order N | | | | | | |
| | , | Address | | Repair Orga | anization, F | P.O. No., Job No., | etc. | | | |
| Work Perfo | | nderson Green rosby | wood | Type Code Symbol | · | NR | | | | |
| | | Name | | Authorization No. | NR-6 | | | | | |
| 43 Kendri | ck St. Wrentha | m, MA 02093 Address | | Expiration Date | 12/11/0 | 6 | | | | |
| | , | | | | | | | | | |
| Identification | on of System | Essential Se | rvice Water [| SX] Spare Valve | | | | | | |
| | | | | 19 <u>_74</u> Edition, <u>W</u> | | | Code Cas | | | |
| . , | | | ior nepair/ne | eplacement Activity: | 2001 E0 | iition/2003 Ad | aenaa | | | |
| (c) Section | able Edition of Son XI Code Case on of Componer | e(s) NONE | тог нерап/не | epiacement Activity: | 2001 E0 | IITION/2003 AC | denda | | | |
| (c) Section Identification Identific | on XI Code Case on of Componer | e(s) NONE nts Manufacturer | National Board | Other | Year | Corrected, Removed, or Installed | ASME Code Stamped | | | |
| (c) Section Identification Name of Component | n XI Code Case on of Componer | e(s) <u>NONE</u> nts | National | | | Corrected, Removed, or | ASME Code Stamped | | | |
| (c) Section Identification Identification Name of Component S* Swing Check Valve Body S* Swing Check Valve Disc | Name of Manufacturer Anderson Greenwood Anderson Greenwood | Manufacturer Serial No. HT: 216236 , Code: TPUL N04-2456-001 HT: 92577 Code: 77CI N04-2457-010 | National Board No. | Other Identification Cat. ID: 1034815-1 VIv S/N: A130 Cat. ID: 1034815-1 VIv S/N: A130 | Year Built | Corrected, Removed, or Installed | ASME Code Stamped (Yes or No | | | |
| (c) Section Identification Identific | Name of Manufacturer Anderson Greenwood Anderson Greenwood Anderson Greenwood | Manufacturer Serial No. HT: 216236 , Code: TPUL N04-2456-001 HT: 92577 Code: 77CI N04-2457-010 HT: 615158 , Code: 77CU N04-2461-001 | National Board No. n/a | Other Identification Cat. ID: 1034815-1 VIv S/N: A130 Cat. ID: 1034815-1 VIv S/N: A130 Cat. ID: 1034815-1 VIv S/N: A130 | Year Built 1978 | Corrected, Removed, or Installed | ASME Code Stamped (Yes or No | | | |
| Name of Component S' Swing Check Valve Body S' Swing Check Valve Disc Hinge Pin Bushing (2) Hinge Pin | Name of Manufacturer Anderson Greenwood Anderson Greenwood Anderson Greenwood Anderson Greenwood | Manufacturer Serial No. HT: 216236 , Code: TPUL N04-2456-001 HT: 92577 Code: 77CI N04-2457-010 HT: 615158 , Code: 77CU N04-2461-001 HT: 8998577 , | National Board No. n/a | Other Identification Cat. ID: 1034815-1 VIv S/N: A130 Cat. ID: 1034815-1 VIv S/N: A130 Cat. ID: 1034815-1 VIv S/N: A130 Cat. ID: 1034815-1 | Year Built 1978 | Corrected, Removed, or Installed Corrected Corrected | ASME Code Stamped (Yes or No Yes | | | |
| Name of Component S' Swing Check Valve Body S' Swing Check Valve Disc Hinge Pin Bushing (2) Hinge Pin Bushing Hinge Pin | Name of Manufacturer Anderson Greenwood Anderson | Manufacturer Serial No. HT: 216236 Code: TPUL N04-2456-001 HT: 92577 Code: 77CI N04-2457-010 HT: 615158 Code: 77CU N04-2461-001 HT: 8998577 Code: B797 HT: 8998577 | National Board No. n/a n/a n/a | Other Identification Cat. ID: 1034815-1 VIv S/N: A130 Cat. ID: 1034815-1 | Year Built 1978 1978 1978 | Corrected, Removed, or Installed Corrected Corrected Removed Installed | ASME Code Stamped (Yes or No Yes No | | | |
| (c) Section Identification Identific | Name of Manufacturer Anderson Greenwood Anderson Greenwood Anderson Greenwood Anderson Greenwood | Manufacturer Serial No. HT: 216236 Code: TPUL N04-2456-001 HT: 92577 Code: 77CI N04-2457-010 HT: 615158 Code: 77CU N04-2461-001 HT: 8998577 Code: B797 | National Board No. n/a n/a | Other Identification Cat. ID: 1034815-1 VIv S/N: A130 | Year Built 1978 1978 | Corrected, Removed, or Installed Corrected Corrected Removed | ASME Code Stamped (Yes or No Yes | | | |
| Name of Component Swing Check Valve Body Swing Check Valve Disc Hinge Pin Bushing (2) Hinge Pin Bushing Hinge Pin | Name of Manufacturer Anderson Greenwood Anderson | Manufacturer Serial No. HT: 216236 Code: TPUL N04-2456-001 HT: 92577 Code: 77CI N04-2457-010 HT: 615158 Code: 77CU N04-2461-001 HT: 8998577 Code: B797 HT: 8998577 | National Board No. n/a n/a n/a | Other Identification Cat. ID: 1034815-1 VIv S/N: A130 Cat. ID: 1034815-1 | Year Built 1978 1978 1978 | Corrected, Removed, or Installed Corrected Corrected Removed Installed | ASME Code Stamped (Yes or No Yes No | | | |

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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| Ren | narks | Purcha | se Orde | r No. 0 | 040360 | 3 | | | | | | | |
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| l certif | v that t | he stater | nents ma | ade in th | e report | are corr | ect and t | his coi | nforms | to the req | uiren | nents of t | he ASME |
| | ection 2 | | | | • | | | | | | | | |
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| • | | 41 | | • | | | ME Code | | | | | | |
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| injury | or pro | perty dar | nage or | a loss of | any kin | | | conne | | th this ins | | on. | |
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| | | Inspecto | r's Signatu | re | | | | N | ational Be | oard, State F | rovino | ce, and End | iorsements |

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| 1. Description of work | | | | | |
|---------------------------|---|--------------------------|-------------------------------|--------------------------------|-------------|
| | (use of properly identified additional sheet(s) or sketch(es) is acceptable) Ive was disassembled and the body seat re-machined and lapped. The disa, was transchibed as stailed as steel seat induved acleage provided to customer), machined and lapped. The disa, was transchibed as stailed as steel seat induved acleage provided to customer). Machined and lapped to the hold for treating. A hydrostatic test and seat leakage test was performed. A repair tag was stanched and driv return shipment. CERTIFICATE OF COMPLIANCE certify that to do best of my knowledge and belief the statements made in this report are set and the repair, modification or replacement activities described above conform to Section XI of the ASME Code and factoristicate of Authorization No. NR-68 to use the "NR" stamp expires December 11, 2005. Certificate Holder ANDERSON GREENWOOD CROSBY CERTIFICATE OF INSPECTION Local Signed CERTIFICATE OF SISTED OF COMPLIANCE (utdo) CERTIFICATE OF SISTED OF COMPLIANCE (utdo) CERTIFICATE OF SISTED OF COMPLIANCE (utdo) CERTIFICATE OF INSPECTION Local Signed CERTIFICATE OF INSPECTION MASSachusetts and employed by The National Board of Boiler and Pressure Vesappectors and destrificate of authorization or replacement described in this report on E. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. | | | | |
| The valve was disassem | (use of property identified additional sheet(s) or sketch(es) is acceptable) assembled and the body sear re-machined and larged. The files was remachined and a stainless steel seat inlayed ided to customer, machined and larged. The files pain bushings were replaced with customer supplied parts and embled for testing. A hydrostatic test and seat leakage test was performed. A repair lag was attached and shipment. CERTIFICATE OF COMPLIANCE CERTIFICATE OF COMPLIANCE CERTIFICATE OF COMPLIANCE Certificate of certify that to the best of my knowledge and belief the statements made in this report are repair, modification or replacement activities described above conform to Section X1 of the ASME Code and and Impecting Code 'NR' rules. CERTIFICATE OF INSPECTION MANDERSON GREENWOOD CROSBY (authorized representative) (authorized representative) CERTIFICATE OF INSPECTION Massachusetts and employed by the jurisdiction of Massachusetts and employed by the purisdiction of moveledge and belief, this repair, modification or replacement activities above conform to Section X1 of the ASME Code and the National Board Inspection of Massachusetts and employed by the purisdiction of Massachusetts and employed by the purisdiction of Massachusetts and employed by the purisdiction or replacement activity has been completed in accordance with the inspection. By Japan Signed Commissions (18 78) and and state that to moveledge and belief, this repair, modification or replacement activity has been completed in accordance with the inspection. Commissions (18 78) and may have a property of the contribution of may manner for connected with this inspection. Commissions (18 78) and purisdiction no. | | | | |
| (weld package provided t | (use of properly identified additional sheet(s) or sketch(es) is acceptable) To was disascembled and the body sear to-machined and lapped. The dise was manuclined and a stainless steel seat inluyed large provided to customer), machined and lapped. The ships were replaced with customer supplied parts and was reassembled for resting. A hydrostatic test and seat leakage test was performed. A repair tag was attached and. for return shipment. CERTIFICATE OF COMPLIANCE certify that to the best of my knowledge and belief the statements made in this report are tand the repair, modification or replacement activities described above conform to Section XI of the ASME Code and timothal Board happetion Code 'Ne' rules. all Board Certificate of Authorization No. NR-68 to use the 'NR' stamp expires December 11, 200 strifficate holder (authorized representative) (authorized representative) (in Signed (authorized representative) to Massachusetts and employed by the National Board of Boiler and Pressure Vespectors and state that it is of my knowledge and belief, this repair, modification or replacement activity has been completed in accordance with the strength of the statements and employed by the National Board to Boiler and Pressure Vespectors and state the repair, modification or replacement described in this report on (2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2- | | | | |
| the valve was reassemble | ed for testing. A hydrostatic | test and seat leakage t | est was performed. A repair t | ag was attached and | |
| packaged for return ships | ment. | | | | |
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| 12. Remarks NONE | | | | <u> </u> | |
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| | | CERTIFICATE OF C | OMPLIANCE | | |
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| I, DAVID T | | | - | | |
| - | - | nt activities described | above conform to Section XI | of the ASME Code and | |
| | | NR-68 | to use the "NR" stamp | expires December 11, 2 | 006 |
| NR Certificate Holde | | | | | |
| | | | r | | |
| Date 29-JUN. | - 06 Signed | ·Th | QA A | 1ANAGER | |
| | (authoriz | ed representative) | (title) | | |
| | | CERTIFICATE OF I | NSPECTION | | |
| 10, 2. | | | | 4 | |
| 1, Just sy | | | | | |
| sel Inspectors and der | • • | I by the jurisdiction of | Massachuset | | |
| | | | | | |
| have inspected the rep | pair, modification or replaces | ment described in this | report on $6-27-3$ | LOGG and state that | t to |
| the best of my knowle | edge and belief, this repair, r | modification or replace | ement activity has been compl | eted in accordance with | |
| Section XI of the ASI | ME Code and the National B | oard Inspection "NR" | rules. | | |
| By signing this certifi | icate, neither the undersigned | i nor my empioyer ma | ikes any warranty, expressed | or implied, concerning | |
| | _ | | · · · | | |
| | | | * * * | tion. | |
| Date June 201 | · - | Wife. | T 4 | | |
| 0 | (Ins | spector) | · · | National Board and jurisdictio | n no.) |
| | | • | | NITIAINS | |

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

| 1. | Owner E | Exelon Nuclear | • | | Date | 04/16/07 | | | |
|----------|---------------------------|-------------------------|-----------------------------------|--------------------------|---------|----------------------|---------------------|--|--|
| | | | Name | **** | | | | - 6 | |
| - | 4300 Winfi | eld Road, War | | ····· | Sheet | 1 | | of <u>1</u> | |
| 2. | Plant E | / Byron Nuclear | \ddress Power Station | | Unit | 00 | | | |
| | 4450 N. C. | Charab | Name | | D | O-d I | N= 0044 | 7714 Day 4 | |
| - | 4450 N. Ge | | Road, Byron, II Address | | Purch | | | 7714 Rev. 4 P.O. No., Job No., | etc. |
| | | | | | | | | | |
| 3. | Work Perfo | ormed by And Cro | lerson Greenw sby | ood | Туре (| Code Symbo | ol Stamp | NR | |
| | | | Name | | Author | ization No. | NR-6 | sa | |
| | 43 Kendrid | ck St., Wrentha | m, MA 02093 | | Expira | tion Date | 12/11/0 |)9 | |
| • | | | Address | | · | | | | |
| 4. | Identification | on of System | Spare Valve | (Essential Se | rvice W | ater-SX) | | | |
| 5. 6. | (b) Applic (c) Section | | e(s) None | | | | | nda, <u>None</u> dition/2003 Add | Code Case lenda |
| 0. | Identification | | 110 | | · | | | | |
| | Name of omponent | Name of Manufacturer | Manufacturer Serial No. | National Board No. | 1 | Other ntification | Year Built | Corrected, Removed, or Installed | ASME Code Stamped (Yes or No) |
| | alve Body | Anderson Greenwood | NO4-2348-001 28712-3 | N/A | | I A-3485 | 1978 | Corrected | Yes |
| | linge Pin ushing (2) | Anderson Greenwood | NO4-2353-002 | N/A | S/N | A-3485 | 1978 | Removed | No |
| | linge Pin ushing (2) | Anderson Greenwood | HT 33443 B693 | N/A | S/N | I A-3485 | 1997 | Installed | No |
| Drille | d Shank Bolt | Anderson Greenwood | NO4-2309-035 | N/A | S/N | I A-3485 | 1978 | Removed | No |
| Drille | d Shank Bolt | Anderson Greenwood | HT 8887666 HG21 | N/A | S/N | I A-3485 | 1985 | Installed | No |
| 5/8" | Slotted Hex Nut | Anderson Greenwood | NO5-2107-003 | N/A | S/N | I A-3485 | 1978 | Removed | No |
| 5/8" | Slotted Hex Nut | Anderson Greenwood | HT: D41073 _ Code AM59 | N/A | S/N | A-3485 | 1985 | Installed | No |
| Va | alve Disc | Anderson Greenwood | NO4-2407-010 | N/A | S/N | A-3485 | 1978 | Removed | No |
| V | alve Disc | Anderson Greenwood | B721-3 / HT 7438304 | N/A | S/N | A-3485 | 1997 | Installed | No |
| | | | | | | | | | |
| 7. | Description | | achine and Wel " Slotted Hex N | | | nd Seat Are | a. Repla | ce Hinge Pin Bu | ıshiings, |
| 8. | Test Cond | ucted: Hydro Other | | Pneumatic re 425 | | ninal Opera Test | ting Press Temp. | | empt □ °F |

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is $8\frac{1}{2}$ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

| 9. | Remarks | Purchase Order No. | | | |
|-----|----------------|---------------------------|--------------------------|-------------|--|
| | | | • • | | ata Reports to be attached |
| | Final valve | body face dimensions | were out of tolerance. | Valve | e body face to be re-worked per Purchase Order |
| | 00421825 | | | | |
| | | | | | |
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| | | | | | |
| | | | | | |
| | | • | CERTIFICATE OF C | COMF | PLIANCE |
| l | certify that t | he statements made in t | the report are correct a | and th | is conforms to the requirements of the ASME |
| Co | de, Section | KI. | | | |
| Тур | oe Code Syn | nbol Stamp | | No | t Applicable |
| Ce | rtificate of A | uthorization No. | | | Not Applicable |
| Sig | ned | & SAA | RRR Cope | | Date <u>5/3/07</u> , 20 <u>07</u> |
| | | Qwne | Owner's Designee, Title | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | CERT | TFICATE OF INSER | VICE | INSPECTION |
| | I, the unders | igned, holding a valid co | ommission issued by t | he Na | tional Board of Boiler and Pressure |
| | Vessel Inspe | ectors and the State or F | Province of | ois | and employed by HSB CT |
| | of Hartfo | d, CT have inspected | the components desc | cribed | in this Owner's Report during the period |
| | 1/14/01 | to 5/4/07 | , and state that to | the b | est of my knowledge and belief, |
| _ | the Owner h | | | | easures described in this Owner's |
| | | cordance with the requir | | | |
| | • | • | | | makes any warranty, expressed or |
| | | | · | - | described in this Owner's Report. |
| | • | • | | | ple in any manner for any personal |
| l | | • | • • | | onnected with this inspection. |
| | Au | Yuller | Commissi | | 126-1254 |
| | Frederica | Inspector's Signature | | | National Board, State Province, and Endorsements |
| | Date: | May 4 ,20 | 07 | | , |
| | Jaic | //F , 20 | <u> </u> | | |

Sheet 1 of 2

| **** | F | ORM N | √R-1 RE | | T OF REI | | | ODIFIC S AND | | | | | | | ATION O | | LAC | CEMEN | т | |
|-------------|--|------------------|-------------------|----------|----------------|--------------------|-----------------------|--|--|-----------|-------|---------------------------------------|-------------|-------------|--------------------|---------|----------|-------------------|-------------|-------------|
| 1. | Worl | k perfor | med by | | (name of | NR cert | DERSON ificate hol | der) | | | | | | - | | | | 714 Rev Job No | | |
| | | (addres | 13) | | | 43 | KENDRI | CK ST. | , WR | EN | THAM | , MA | 02093 | <u> </u> | | | | | | |
| 2. | Own | æ | | | | | | E | XELO | <u>NC</u> | GENE | RATIC | N | | | | | | | |
| | | (n | ame) | | | | 4450 NOF | TH GE | RM. | AN | CHUR | CH RO | AD | | | | | | | |
| | | (addres | | | | | | | | | | | | ~~* | \D.CT C. | B 200 | | | | |
| 3. | Nam | e, addin | ESS 8.000 1 | юст | fication of | | 4450 NOI | | RM. | N. | CHUR | CH RC | AD | אכ | NUCLEA | R POV | A ET | K PLAN | 1 | |
| 4. | Syste | em <u>C</u> | OOLIN | G W | ATER | | | | | | | | | | | | | | | |
| 5a. | Item | s Which | Requir | ed R | epair, Mod | lification | n, or Repl | acemen | t Acti | iviti | es | | | | | | | | | |
| | · | | | | Identif | ication | | · · · · · · | | | | | | C | onstructio | n Code | | | | ivity |
| 1 | T. | ype of | Mfg | | Mfg. Serial | | Nat'l Bd. | Juris. | | | Year | Name Section | | Ed | lition/ | Code | ١ | Code | Rep | |
| No. | | :m | Nam | | No. | | No. | No. | Oth | er | Built | Divis | | 1 | idenda | Case(s | - 1 | Class | | lace |
| 1 | 8. CF | . Valve | AG | | A3485 | | N/A | N/A | N/A | 닉 | 1978 | ASME | SBC III | 197 | 4 51976 | N/A | | 3 | REP. | AIR |
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| 12 | <u> </u> | | | | | | L | <u> </u> | | | | <u> </u> | | <u> </u> | | | l | | L | |
| 5b. | Item | s Install | ed Duri | ng Re | eplacement | Activit Identif | | | | | | | | · | | | | | | |
| | | Installe | d or | Γ | | IOCOLL | CAUGH | Γ | | T | | | T | + | Name/ | Cons | crux | zion Co | ae | T |
| Туре | of | Replac | ed | Mfg | | Mfg. | _ | Nat'l E | 3 d . | 1 - | ris. | | Year | - 1 | Section/ | Bdit | | 1 | | Code |
| Item | 7 720 | 5a Iten | i No. Lrepaire | Nam | ie . | Serial I 28712- | | No. | | No N/ | | ther /A | Buik N/A | | Division ASME SEC. | Add | | | se(s) A | Class 3 |
| Bush | ing | Replac | ed | AG | | N04-23 | | N/A | | N/ | | | N/A | | ASME SEC. | | | | | 3 |
| Bush | ing | Replac | | AG | | | 53-002 | N/A | | N/ | | /A | N/A | | ASME SEC. | | | | | 3 |
| Bokt Nut | | Replac Replac | | AG AG | | 3306 21 | 09-035 07-003 | N/A N/A | | N/. | | / <u>A</u> /A | N/A N/A | | ASME SEC. | | _ | | | 3 |
| Link | | Replac | | ΑG | 20418 | D0000 | 2-0004 ≯ | N/A | | N/. | | | N/A | | Dedicated | 1974 | | | | DED |
| Pia | | Replac | | AG | | D00940 | | N/A | | N/ | | | N/A | _ | Dedicated | 1974 | | | | DED |
| Disc | | Replac | ea . | AG | 1100 | N04-24 | 07-010 | N/A | | N/ | A N | <u> </u> | N/A | ť | ASME SBC.I | 1119/4 | 3/ | 6 N/ | <u> </u> | 3 |
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| <u> </u> | | <u> </u> | | <u> </u> | | | | L | | <u></u> | | | | 1 | | | | | | |
| 6. | ASN | (E Code | e Section | ı XI | ppplicable | for ins | ervice insp | ection: | | | | | - | | - ' | | | | | _ |
| 7. | ASM | IE Code | e Section | ı XI t | ised for re | pairs, m | odification | a, or r e p | olacer | nen | ts: | | 2 | 200 | 1 | : | 200: | <u> </u> | | |
| 8. | Cons | struction | a Code u | ised f | or repairs, | modific | cations, or | replaco | nents: | : | | · · · · · · · · · · · · · · · · · · · | 197 | 4 | S1976 | <u></u> | | | | |
| 9. | Desi | gn resp | onsibilit | ies | ANDERS | on Gr | EENWOO | D | | | | | | | | | | | | |
| 10. | Test | s condu | cted: | Xhy | drostatic | □pn | eumatic | desig | m pre | :SSU: | re [| pres | sure | 4 | 25 g | sig | Cod | ie Caso(| s) _ | |

| 11. Description of work | | | |
|---|---|--|---|
| (use of properly The valve was received and visually inspected and | the body was found to be i | _ | |
| and the interior. A complete set of replacement parts minimum overall dimension and the seat was cut out still had corrosion inboard of the gasket sealing area, completely weld repaired and the seat area was also | t for weld repairing and re- but this was unacceptable | machining, Following re-machining to the customer. At this point, the | ng, the hody faces e hody faces were |
| All weld repair and re-machined areas were magnetic were lapped and the valve was re-assembled using the performed. An NR/VR tag was attached to the valve | ic particle inspected before the customer supplied parts and it was packaged for re | weld repairing and after re-maching the property of the proper | ning. The seats |
| National Board approved NR/VR program, QC-110 | Supplement 4. | | |
| | | | |
| 12. Remarks None | | · · · · · · · · · · · · · · · · · · · | |
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| | | | |
| I, DAV D TOTTLE certify the | | ledge and belief the statements made | • |
| correct and the repair, modification or replacementhe National Board Inspection Code "NR" rules. National Board Certificate of Authorization No. | | | , <u>1</u> |
| National Board Certificate of Authorization No. NR Certificate Holder | NR-68 ANDERSON | _ to use the "NR" stamp expires GREENWOOD CROSBY | December 11, 2009 |
| 11 April 2007 (name) +/ | Mes | × ST QA ENG | 1~A.R.K |
| Date 4-APR-07 Signed D. E. | ETWO | aa mana | |
| RIV-APR-07 DIFFIDE (authoriz | zed representative) | (title) | |
| | CERTIFICATE OF INSPI | ECTION | |
| | | by The National Board of Boiler as | |
| sel Inspectors and certificate of competency issued | d by the jurisdiction of | Massachusetts | and employed by |
| HSB - CT | | 4 | lartford, CT |
| have inspected the repair, modification or replacer | - | | and state that to |
| the best of my knowledge and belief, this repair, r | • | • | cordance with |
| Section XI of the ASME Code and the National B | - | | - |
| By signing this certificate, neither the undersigned | | • | |
| any personal injury, property damage or a loss of | _ | onnected with this inspection. | |
| Date $9-9-07$ Signed 9 | 70/4 /VV | Commissions <u>MA (CA 12</u> | 1 (ANF M4 /2>7 |

| | | | - | | REPAIR/REPLA of the ASME Co | | | |
|----|-------------------|-----------------------------------|--|--------------------------|-------------------------------------|---------------|--|--|
| 1. | Owner _ | Exelon Nuclear | | | Date _05/3/07 | | Δ | |
| | 4300 Wint | field Road, War | Name renville, IL Address | | Sheet 1 | | of <u>1</u> | |
| 2. | Plant _ | Byron Nuclear | Power Station | | Unit 00 | | | |
| | 4450 N. G | erman Church | Name Road, Byron, I Address | <u>L</u> | Purchase Order Repair O | | 21825 P.O. No., Job No., e | etc. |
| 3. | Work Perf | ormed by And | derson Greenw | rood | Type Code Symb | | NR | |
| | | | Name | | Authorization No. | NR-6 | | |
| | 43 Kendri | ck St., Wrentha | Address | | Expiration Date | 12/11/0 | 09 | |
| 4. | Identificati | on of System | Spare Valve | (Essential Se | vice Water-SX) | | | |
| 5. | (a) Applic | cable Construction of | on Code <u>ASI</u> Section XI Used | ME Section III | 19 74 Edition, Solacement Activity: | | | Code Case lenda |
| 6. | , , | on XI Code Case ion of Compone | • • — — — | | | ····· | | |
| C | Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Corrected, Removed, or Installed | ASME Code Stamped (Yes or No) |
| ٧ | alve Body | Anderson Greenwood | NO4-2348-001 28712-3 | N/A | S/N A-3485 | 1978 | Corrected | Yes |
| | | | | | | | | |
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| 7. | Descriptio | n of Work M | achine and Wel | d Valve Body F | aces to Within Dra | awina Tol | erances | |
| | | | | | | | | |
| 8. | Test Cond | lucted: Hydro Other | | Pneumatic re 425 | • | • | | empt □ ºF |

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

| Remarks P | urchase Order No | | |
|---------------------|--|--------------------------------|--|
| Re-Work from | n Purchase Order 0 | • • | Data Reports to be attached |
| TIE-VOIR IIOI | Truichase Order d | 70411/14 HeV. 4. | |
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| | | | water the state of |
| · · · · · · | ANALYSIS CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CO | CERTIFICATE OF COM | MPLIANCE |
| certify that the | statements made i | | this conforms to the requirements of the AS |
| de, Section XI. | otatornomo mado n | Trans report and correct and t | and comonne to the requirements of the rice |
| pe Code Symbo | al Stamp | | Not Applicable |
| • | * ************************************* | | |
| rtificate of Author | orization ivo. | | Not Applicable |
| ned |) Sma | RRR Coord. | Date <u>5/3</u> , 20 <u>0</u> |
| V | Owner | or Owner's Designee, Title | |
| | | | |
| | | | |
| | | RTIFICATE OF INSERVIC | |
| I, the undersign | ned, holding a valid | commission issued by the N | National Board of Boiler and Pressure |
| Vessel Inspecto | ors and the State o | r Province ofIllinois | and employed by HSB CT |
| of Hartford, | CT have inspect | ted the components describe | ed in this Owner's Report during the period |
| 5/1/17 | to 5/4/07 | , and state that to the | e best of my knowledge and belief, |
| the Owner has | performed examina | | measures described in this Owner's |
| Report in accor | rdance with the req | uirements of the ASME Code | le. Section XI. |
| • | · | | er makes any warranty, expressed or |
| | | • | s described in this Owner's Report. |
| • | - | | iable in any manner for any personal |
| | • | • • | connected with this inspection. |
| Can so propor | ., | Commissions | · |
| In | nspector's Signature | | National Board, State Province, and Endorseme |
| Date: 72 | | | |
| | | 20 07 | |

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| | | (addres | <u></u> | | | 43 | KENDRI | CK ST. | , WR | ENT | HAM | , MA | 12093 | | | | | | | |
| • | Own | er | · | | | | | _ E | XELC | N G | ENE | RATIO | 4 | | | | | | | |
| | | n) | ame) | | | | 4450 NOR | TH GE | DMA | NC | ur in | CH BU | 4 TD | | | | | - | | |
| | | (addres | | | | | | | | <u>., .</u> | | | | | | | | • | | |
| • | Nam | e, addre | ess and i | identi | fication of | | r power pla 4450 NOR | | RMA | NC | | | |)N I | NUCLEA | R POWE | R PL | ANT | | |
| | Syste | -m C | OOLIN | G W | ATER | | | | | | | | | | | - | | | | |
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| <u>l. </u> | Item | s Which | Requir | ed Ro | | ication | n, or Repla | cemen | ACU | vities | | <u> </u> | | Co | nstructio | n Code | | | Acti | vity |
| <u> </u> | | | | | Mfg. | | I | | | | | Name/ | | Γ | | | | | Rep | air/ |
| ło. | | ype of | Mfg. Nam | | Serial No. | | Nat'l Bd. No. | Juris. No. | Othe | ar B | | Section Division | - : | | ition/ denda | Code Case(s) | Code | | Mod Rep | |
| | | Valve | AG | | A3485 | | N/A | N/A | N/A | | 978 | ASME S | | | | N/A | 3 | | REP/ | _ |
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| уре | n.e | Installe Replac | | Mfg. | | Mfg. | | Nat'l I | ra Ta | Juri | . | | Year | | Name/ Section/ | Edition | | Code | | Cod |
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| | ASM | 1E Code | e Section | χI | ised for re | pairs, n | odification | ı, or rej | placen | nents | : | | | 2001 | <u> </u> | 20 | <u>03</u> | | ···· | |
| • | Ċons | struction | Code u | sed f | or repairs. | modifi | cations, or | replace | nents: | | | | 197 | 74 | <u>\$1976</u> | · | | | | |
| | Desi | gn resp | onsibiliti | ies | ANDERS | ON GR | EENWOO | D | | | | | | | | | | | | |

| 11. Description of work | | | | ···· | |
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| | (use of property ide | ntified additional shee | t(s) or sketch(es) is acc | eptable) | |
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| 12. Remarks REFERENCE | NR-1 FORM FOR P.O. 00 | 417714 REV. 004 | | | |
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| | CEI | RTIFICATE OF COM | PLIANCE | | |
| I DAVID TUT | TTLF certify that | to the best of my know | ledge and belief the st | stements made in | this report are |
| | dification or replacement a | | | | |
| the National Board Inspec | | | | | |
| National Board Certificate | e of Authorization No. | NR-68 | _to use the "NR" stan | up expires | December 11, 2009 |
| NR Certificate Holder | | ANDERSON | GREENWOOD CRO | SBY | |
| . | (name) | | • | | - • |
| Date 3-MAY-07 | Signed | ./ 0 | | MANAGR | <u> </u> |
| | (authorized | representative) | (title) | • | |
| , | ÇE | RTIFICATE OF INSP | ECTION | | |
| · Van lives | halding a re | ilid gamminalan ibmad | he The Matienal Decar | e of Dollar and D | |
| 1, VISH 1961C | | | by The National Board | | |
| sel inspectors and certifica | ate of competency issued by | the jurisdiction of | Massachus | , | nd employed by |
| | HSB - CT | | of | Hartfo | ord, CT |
| | modification or replacemen | _ | | | and state that to |
| the best of my knowledge | and belief, this repair, mod | lification or replaceme | nt activity has been con | npleted in accord | ance with |
| Section XI of the ASME (| Code and the National Boan | d Inspection "NR" rul | ca. | | |
| By signing this certificate. | , neither the undersigned no | r my employer makes | any warranty, expresse | ed or implied, con | cerning |
| | report. Purthermore, neith | | | - | - · · · · · · · · · · · · · · · · · · · |
| | erty damage or a loss of any | | | | |
| Date 14443, 200 |) Signed | gaz- | | B 7883, | MA 1420 |
| | (Inspec | tor) | | | d and jurisdiction no.) |

| DOCUMENT NO.: 3.3 | REV. NO.: | 0 |
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|-------------------|-----------|---|

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

| 1. | Owner Exelon Nuclear | Date <u>4/17/07</u> |
|----|---|--|
| 2. | Name 4300 Winfield Road, Warrenville, IL Address Plant Byron Nuclear Power Station | Sheet 1 of 3 Unit 02 |
| ۷. | Name 4450 N. German Church Road, Byron, IL | Work Order No. 00850352-01 |
| | Address | Repair Organization, P.O. No., Job No., etc. |
| 3. | Work Performed by Shaw/Stone & Webster Name | Type Code Symbol Stamp Not Applicable |
| | 36400 S. Essex Road, Wilmington, IL 60481 Address | Authorization No. Not Applicable Expiration Date Not Applicable |
| 4. | Identification of System PRIMARY CONTAINM | IENT VENTILATION (VP) |
| 5. | | n III 19 74 Edition, S76 Addenda, 1695-1 Code Case ir/Replacement Activity 2001 Edition / 2003 Addenda |
| 6. | Identification of Components | |
| | | ASME Corrected, Code |

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Corrected, Removed, or Installed | ASME Code Stamped (Yes or No) |
|--|-------------------------|----------------------------|--------------------------|-------------------------|---------------|--|--|
| Channel Head - Designation SX-RH-1 | CARRIER | 7865418-1 | 138735 | 2VP01AD | 1978 | Removed | YES |
| Channel Head - Designation SX-RH-1 | AEROFIN | 070251 | 2176 | 2VP01AD | 2007 | Installed | YES |
| Channel Head - Designation SX-RH-2 | CARRIER | 7865420-1 | 138739 | 2VP01AD | 1978 | Removed | YES |
| Channel Head - Designation SX-RH-2 | AEROFIN | 070250 | 2175 | 2VP01AD | 2007 | Installed | YES |
| Channel Head - Designation SX-RH-3 | CARRIER | 7865420-2 | 138740 | 2VP01AD | 1978 | Removed | YES |
| Channel Head - Designation SX-RH-3 | AEROFIN | 070249 | 2174 | 2VP01AD | 2007 | Installed | YES |

| 7. | Description of World | | | | | | I STAINLESS STE | | S PER | |
|----|----------------------|-------------|----------|----------|------|--------|--------------------|-------|--------|--|
| _ | EC 343537. HEAD | S ARE ALSO | UPGRAD | ED FROM | IASM | E CLAS | S 3 TO ASME CLA | SS 2. | | |
| 8. | Test Conducted: | Hydrostatic | ☐ Pr | neumatic | | Nomina | l Operating Pressu | ıre 🛚 | Exempt | |
| | | Other 🗌 | Pressure | | 90 | _psi | Test Temp. | 64 | °F | |

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is $8\frac{1}{2}$ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

| | Applicable Manufacturer's Data Reports to be attached |
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| | CERTIFICATE OF COMPLIANCE |
| certify that the statements made | in the report are correct and this conforms to the requirements of the ASME |
| ode, Section XI. | |
| pe Code Symbol Stamp | Not Applicable |
| rtificate of Authorization No. | Not Applicable |
| aned A SWA | RRR Cooch Date 6/11 , 20 07 |
| Owne | or Owner's Designee, Title |
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| CE | RTIFICATE OF INSERVICE INSPECTION |
| | RTIFICATE OF INSERVICE INSPECTION d commission issued by the National Board of Boiler and Pressure |
| | d commission issued by the National Board of Boiler and Pressure |
| I, the undersigned, holding a valid Vessel Inspectors and the State of | d commission issued by the National Board of Boiler and Pressure |
| I, the undersigned, holding a valid Vessel Inspectors and the State of | d commission issued by the National Board of Boiler and Pressure or Province of and employed by HSB CT |
| I, the undersigned, holding a valid Vessel Inspectors and the State of Hartford, CT have inspected holding a valid by the holding a valid vessel Inspectors and the State of Hartford, CT have inspected holding a valid vessel in the holding in the | d commission issued by the National Board of Boiler and Pressure or Province of Illinois and employed by HSB CT eted the components described in this Owner's Report during the period |
| I, the undersigned, holding a valid Vessel Inspectors and the State of Hartford, CT have inspect to have inspect to have inspect to have inspected to have i | d commission issued by the National Board of Boiler and Pressure or Province of Illinois and employed by HSB CT sted the components described in this Owner's Report during the period , and state that to the best of my knowledge and belief, |
| I, the undersigned, holding a valid Vessel Inspectors and the State of Hartford, CT have inspect the Owner has performed examin Report in accordance with the recommendation. | d commission issued by the National Board of Boiler and Pressure or Province of Illinois and employed by HSB CT sted the components described in this Owner's Report during the period , and state that to the best of my knowledge and belief, nations and taken corrective measures described in this Owner's quirements of the ASME Code, Section XI. |
| I, the undersigned, holding a valid Vessel Inspectors and the State of Hartford, CT have inspect to have inspect to have inspect to have inspect the Owner has performed examing Report in accordance with the red by signing this certificate neither. | d commission issued by the National Board of Boiler and Pressure or Province of Illinois and employed by HSB CT eted the components described in this Owner's Report during the period , and state that to the best of my knowledge and belief, nations and taken corrective measures described in this Owner's quirements of the ASME Code, Section XI. the Inspector nor his employer makes any warranty, expressed or |
| I, the undersigned, holding a valid Vessel Inspectors and the State of Hartford, CT have inspect the Owner has performed examing Report in accordance with the recent by signing this certificate neither implied, concerning the examinat | d commission issued by the National Board of Boiler and Pressure or Province of Illinois and employed by HSB CT eted the components described in this Owner's Report during the period , and state that to the best of my knowledge and belief, nations and taken corrective measures described in this Owner's quirements of the ASME Code, Section XI. the Inspector nor his employer makes any warranty, expressed or itions and corrective measures described in this Owner's Report. |
| I, the undersigned, holding a valid Vessel Inspectors and the State of Hartford, CT have inspect the Owner has performed examinated Report in accordance with the recent By signing this certificate neither implied, concerning the examinated Furthermore, neither the Inspectors | d commission issued by the National Board of Boiler and Pressure or Province of Illinois and employed by HSB CT eted the components described in this Owner's Report during the period , and state that to the best of my knowledge and belief, nations and taken corrective measures described in this Owner's quirements of the ASME Code, Section XI. the Inspector nor his employer makes any warranty, expressed or tions and corrective measures described in this Owner's Report. For nor his employer shall be liable in any manner for any personal |
| I, the undersigned, holding a valid Vessel Inspectors and the State of Hartford, CT have inspect to Hartford, CT have inspect the Owner has performed examing Report in accordance with the red By signing this certificate neither implied, concerning the examinat Furthermore, neither the Inspector injury or property damage or a loss | d commission issued by the National Board of Boiler and Pressure or Province of Illinois and employed by HSB CT eted the components described in this Owner's Report during the period , and state that to the best of my knowledge and belief, nations and taken corrective measures described in this Owner's quirements of the ASME Code, Section XI. The Inspector nor his employer makes any warranty, expressed or ions and corrective measures described in this Owner's Report. For nor his employer shall be liable in any manner for any personal ass of any kind arising from or connected with this inspection. |
| I, the undersigned, holding a valid Vessel Inspectors and the State of Hartford, CT have inspect the Owner has performed examin Report in accordance with the red By signing this certificate neither implied, concerning the examinat Furthermore, neither the Inspector | d commission issued by the National Board of Boiler and Pressure or Province of Illinois and employed by HSB CT eted the components described in this Owner's Report during the period , and state that to the best of my knowledge and belief, nations and taken corrective measures described in this Owner's quirements of the ASME Code, Section XI. the Inspector nor his employer makes any warranty, expressed or tions and corrective measures described in this Owner's Report. For nor his employer shall be liable in any manner for any personal |

FORM NIS-2 SUPPLEMENTAL SHEET

| 1. | Owner | Exelon N | luclear | | Date | 4/17 | /07 | | | | |
|----|--------------|--------------|-----------------------|------------------------------------|--------|---------|------------|---------------|----------------|-----------|--|
| | | | Name | | | | | | | | |
| | 4300 Winf | ield Road, | Warrenville, I | <u>L</u> | Shee | t | 2 | of | | 3 | |
| | | | Address | | | | | | | | |
| 2. | Plant | Byron N | uclear Power | Station | Unit | 02 | | | | | |
| | | | Name | | | | | | | | |
| | 4450 N. G | erman Chu | rch Road, By | ron, IL | Work | Order | No. 00 | 850352-0 | 1 | | |
| | | | Address | | | Re | pair Orgar | nization, P.C |). No., Job 1 | No., etc. | |
| 3. | Work Perfe | ormed by | Shaw/Ston | e & Webster | | Code S | Symbol S | | Not Applicable | plicable | |
| | 26400 € 5 | Enney Boos | Name I, Wilmington | 11 60401 | | ation D | | Not Appl | | | |
| | 30400 S. E | ISSEX HOAD | · | , IL 0040 I | Expii | allon D | ale _ | NOT Appl | icable | | |
| | | | Address | | | | | | | | |
| 4. | Identificati | on of Syster | n PRIMAI | RY CONTAINMEN | T VENT | TILATIC | N (VP) | | | | |
| 5. | | | | ASME Section III Used for Repair/R | | | | | | | |
| | (c) Section | on XI Code | Case(s) NO | NE | | | | | | | |
| 6. | Identificati | on of Comp | onents | | | | | | | | |

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Corrected, Removed, or Installed | ASME Code Stamped (Yes or No) |
|--|-------------------------|----------------------------|--------------------------|-------------------------|---------------|--|--|
| Channel Head - Designation SX-RH-4 | CARRIER | 7865419-2 | 138738 | 2VP01AD | 1978 | Removed | YES |
| Channel Head - Designation SX-RH-4 | AEROFIN | 070248 | 2173 | 2VP01AD | 2007 | Installed | YES |
| Channel Head - Designation SX-RH-5 | CARRIER | 7865416-1 | 138731 | 2VP01AD | 1978 | Removed | YES |
| Channel Head - Designation SX-RH-5 | AEROFIN | 070247 | 2172 | 2VP01AD | 2007 | Installed | YES |
| Channel Head - Designation SX-LH-1 | CARRIER | 7865419-1 | 138737 | 2VP01AD | 1978 | Removed | YES |
| Channel Head - Designation SX-LH-1 | AEROFIN | 070246 | 2171 | 2VP01AD | 2007 | installed | YES |
| Channel Head - Designation SX-LH-2 | CARRIER | 7865417-2 | 138734 | 2VP01AD | 1978 | Removed | YES |
| Channel Head - Designation SX-LH-2 | AEROFIN | 070245 | 2170 | 2VP01AD | 2007 | installed | YES |
| Channel Head - Designation SX-LH-3 | CARRIER | 7865418-2 | 138736 | 2VP01AD | 1978 | Removed | YES |
| Channel Head - Designation SX-LH-3 | AEROFIN | 070244 | 2169 | 2VP01AD | 2007 | Installed | YES |

FORM NIS-2 SUPPLEMENTAL SHEET

| 1. | Owner | Exelon | Nuclear | Date | 4/17/07 | | | |
|----------|--|--------------|---|----------|---|------------------|----------------------------------|--------|
| | | | Name | | | | | |
| | 4300 Winfield Road, Warrenville, IL | | Sheet | 3 | of | 3 | | |
| | | | Address | | | | | |
| 2. | Plant | Byron N | uclear Power Station | Unit | 02 | | | |
| | | | Name | - | | | | |
| | 4450 N. G | ierman Chu | rch Road, Byron, IL | Work | Order No. | 00850352-0 |)1 | |
| | | | Address | | Repair O | rganization, P.0 | O. No., Job No., | , etc. |
| 3. | Work Perf | • | Shaw/Stone & Webster Name I, Wilmington, IL 60481 | Autho | Code Symb rization No. ation Date | • | Not Appli plicable licable | cable |
| | | | Address | · | | | | |
| 4. | Identificati | ion of Syste | m PRIMARY CONTAINME | ENT VENT | ILATION (V | 'P) | | |
| 5. 6. | (a) Applicable Construction Code ASME Section III 19 74 Edition, S76 Addenda, 1695-1 Code Case (b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition / 2003 Addenda (c) Section XI Code Case(s) NONE Identification of Components | | | | | | | |
| υ. | ideilillicati | ion or comp | Ollents | | | | | |

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Corrected, Removed, or Installed | ASME Code Stamped (Yes or No) |
|--|-------------------------|----------------------------|--------------------------|-------------------------|---------------|--|--|
| Channel Head - Designation SX-LH-4 | CARRIER | 7865417-1 | 138733 | 2VP01AD | 1978 | Removed | YES |
| Channel Head - Designation SX-LH-4 | AEROFIN | 070243 | 2168 | 2VP01AD | 2007 | Installed | YES |
| Channel Head - Designation SX-LH-5 | CARRIER | 7865416-2 | 138732 | 2VP01AD | 1978 | Removed | YES |
| Channel Head - Designation SX-LH-5 | AEROFIN | 070242 | 2167 | 2VP01AD | 2007 | Installed | YES |

| DOCUMENT NO.: | 3.1 | | REV. NO.: 0 |
|---------------|-----|--|--------------------|

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

| 1. | Owner Exe | lon Nuclear | a by the riothe | .oo o | Date 4/17/07 | | | | | | |
|--|--|--------------------------------|--|-------------------|------------------------------------|--|---------------------------------------|-------------------------|--|--|--|
| ١. | | Nan | | | | ······································ | · · · · · · · · · · · · · · · · · · · | | | | |
| | 4300 Winfield Road, Warrenville, IL Address | | | | eet1 | | f1 | | | | |
| 2. | Plant Byron Nuclear Power Station | | | | it 02 | | | | | | |
| | 4450 N Germ | Nar an Church Roa | | \// | ork Order No. | 00850353- | 01/10 | | | | |
| | 4450 N. Gellii | Addr | | | | | O. No., Job No., etc. | | | | |
| 3. Work Performed by Shaw/Stone & Webster Type C | | | | | | ol Stamp | Not Applicab | le | | | |
| | 00400 C Fare | | ame | | thorization No. | | plicable | | | | |
| | 36400 S. ESS6 | ex Road, Wilmir Addr | | Ex | piration Date | Not App | licable | | | | |
| 4. | Identification o | of System Pl | RIMARY CONTAIL | VMENT VE | NTILATION (VE | P) | | | | | |
| 5. 6. | (b) Applicable (c) Section X | | ode ASME Sec ion XI Used for Re NONE | | | | | | | | |
| | Name of | Name of | Manufacturer | National Board | Other | Year | Corrected, Removed, or | ASME Code Stamped | | | |
| | Component | Manufacturer | Serial No. | No. | Identification | Built | Installed | (Yes or No | | | |
| | AD BOLT, ½" x 4 , SA449 (12 ea.) | CARRIER | 7865416-2 | 138732 | 2VP01AD SX-LH-5 | 1978 | Removed | NO | | | |
| | rew, Hex, ½" x 4 ½", SA193/B7 (12 ea.) | Nova Machine Products | HT# USY06420 LOT# 50002893 | N/A | 2VP01AD SX-LH-5 CID# 46596-1 | 2004 | installed | NO | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | 777 | | 7217.24 | | | |
| | | | | | | | | | | | |
| 7. | Description of Bolt Numbers: | | ce RCFC Head Bo 22, 23, 32, 33, 46 | | | | | | | | |
| 8. | Test Conducte | ed: Hydrostati Other 🗌 | c Pneum Pressure | atic 🗌 | Nominal Opera _psi Test | ting Pressu Temp. | | • | | | |

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

| €. | Remarks | WO# 00850352-01 | | |
|-----------|--|--|--|---|
| | | | Applicable Manufacturer's Data Re | ports to be attached |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | CERTIFICATE OF COMPLIANCE | CE |
| 1 | certify that t | he statements made | | orms to the requirements of the ASME |
| | de, Section 2 | | | |
| | e Code Syn | | Not Appli | icable |
| • | • | uthorization No. | | plicable |
| | ned | 1. Swor | RRR God. | Date <u>L///</u> , 20 <u>07</u> |
| 9 | | Owne | nor Owner's Designee, Title | |
| | | | J | |
| | | | | |
| | | | | |
| | | CE | RTIFICATE OF INSERVICE INSP | ECTION |
| ĺ | I, the unders | signed, holding a valid | d commission issued by the National E | Board of Boiler and Pressure |
| , | Vessel Inspe | ectors and the State o | or Province of <u>Illinois</u> an | d employed by HSB CT |
| (| | | | |
| | of <u>Hartfo</u> | r d, CT have inspec | ted the components described in this | Owner's Report during the period |
| | of Hartfor | to 6/19/0 | , | , , , |
| _ | 1/8/07 | to | , and state that to the best of r | my knowledge and belief, |
| | 18/07 the Owner h | to <u>6/19/6</u> has performed examin | • | my knowledge and belief, s described in this Owner's |
| ļ | the Owner h Report in ac | toto las performed examinated accordance with the rec | , and state that to the best of r nations and taken corrective measures | my knowledge and belief, s described in this Owner's n XI. |
| 1 | the Owner h Report in ac By signing the | to <u>6/19/6</u> has performed examinated and the received his certificate neither | , and state that to the best of r nations and taken corrective measures quirements of the ASME Code, Sectio the Inspector nor his employer makes | my knowledge and belief, s described in this Owner's n XI. s any warranty, expressed or |
| ! ! | the Owner h Report in ac By signing th implied, con | to description to the secondaries with the received restriction of the examination of the | , and state that to the best of r nations and taken corrective measures quirements of the ASME Code, Sectio the Inspector nor his employer makes tions and corrective measures describe | my knowledge and belief, s described in this Owner's n XI. s any warranty, expressed or ed in this Owner's Report. |
| | the Owner had By signing to implied, con Furthermore | to das performed examinated and the recordance with the recordance matter than the recordance matter than the recordance and the recordance at the recordanc | , and state that to the best of relations and taken corrective measures quirements of the ASME Code, Section the Inspector nor his employer makes ions and corrective measures describer nor his employer shall be liable in an | my knowledge and belief, s described in this Owner's n XI. s any warranty, expressed or ed in this Owner's Report. ny manner for any personal |
| | the Owner had By signing to implied, con Furthermore | to das performed examinated and the recordance with the recordance matter than the recordance matter than the recordance and the recordance at the recordanc | , and state that to the best of relations and taken corrective measures quirements of the ASME Code, Section the Inspector nor his employer makes and corrective measures describer nor his employer shall be liable in ares of any kind arising from or connected. | my knowledge and belief, s described in this Owner's n XI. s any warranty, expressed or ed in this Owner's Report. ny manner for any personal |
| | the Owner had By signing to implied, con Furthermore | to das performed examinated and the recordance with the recordance matter than the recordance matter than the recordance and the recordance at the recordanc | , and state that to the best of relations and taken corrective measures quirements of the ASME Code, Section the Inspector nor his employer makes it is and corrective measures describer nor his employer shall be liable in are so of any kind arising from or connected Commissions | my knowledge and belief, s described in this Owner's n XI. s any warranty, expressed or ed in this Owner's Report. ny manner for any personal |

EVALUATE CONDITIONS THAT DID NOT MEET THE ACCEPTANCE CRITERIA DURING THE 2nd IWL 5-YEAR CONTAINMENT CONCRETE SURVEILLANCE

Reason for Evaluation/Scope:

This evaluation is being performed to address all conditions that exceeded the acceptance criteria established by the Owner in surveillance packages for the conduct of the 2nd IWL containment concrete surveillance (per Ref.'s 2 & 3) at Byron. These conditions were documented individually in the following IR's:

- 1) IR #515883: CORROSION LEVELS FOR TENDON H01EF-F CAN IN U-2 FAILS AC (the acceptance criteria is no active corrosion).
- 2) IR #515877: CORROSION LEVELS FOR TENDON H01AC-C CAN IN U-1 FAILS AC (the acceptance criteria is no active corrosion).

The above conditions are evaluated as acceptable since adequate design margins exist and therefore, no repair/replacement is required until the 25th-yr tendon surveillance (scheduled in 2009) where these cans will be replaced like for like.

This evaluation includes the requirements of the "Evaluation Report" section of Ref.1. As such, the following items have been addressed in this evaluation report:

- 1) The cause of the condition that does not meet the acceptance criteria,
- 2) The applicability of condition to the opposite unit,
- 3) The acceptability of the concrete containment and hence, the acceptability of the condition,
- 4) Whether or not repair/replacement activity is required and,
- 5) Extent, nature and frequency of additional examinations.

In the Detailed Evaluation portion of this document, both conditions described in the IR's above are addressed.

Detailed Evaluation:

1) The Unit-2 tendon grease can H01EF-F and Unit-1 tendon grease can H01AC-C exhibited active corrosion as indicated by the presence of a reddish layer of corrosion on the outer surface of the cans. This condition was observed during the conduct of the 2nd IWL 5-yr containment structure concrete surfaces and exceeded the acceptance criteria established by the Owner (provided in Ref's. 3 & 2 respectively and given here as Attachment 1). The grease cans are located at the base of the containment structures in enclosed buttresses with moisture present on the floor of the buttresses. It is the presence of this moisture in this environment that had contributed to the corrosion on the cans. The moisture has since been removed and no source of new moisture has been identified.

Upon close examination of the corrosion condition of the tendon grease cans, it was noted that the corrosion is not in the form of delamination and only as a thin layer of dust. Based upon the freshness of the color of the corrosion products and the fact that these grease cans were not identified as having corrosion in the 1st IWL 5-yr containment concrete surfaces examination

Section 6.0.1 Page 1 of 5

Byron Station Unit 2 Refueling Outage 13 Inservice Inspection Report

EC 363076 Rev. 0

EVALUATE CONDITIONS THAT DID NOT MEET THE ACCEPTANCE CRITERIA DURING THE 2nd IWL 5-YEAR CONTAINMENT CONCRETE SURVEILLANCE

(Ref's 4 & 5), it was determined that active corrosion is taking place. However, it was also determined that only superficial metal loss on the can surfaces had taken place. No corrosion was taking place on the can bolts and the welds also were unaffected.

The tendon grease cans only hold grease and do not serve any other structural function. The grease cans are made out of a 1/8" steel sheet rolled into a tube and welded to two ¾" thick plates (lid and flange) to complete a cylinder (Ref. 8).

The amount of metal loss due to the observed corrosion is minimal and considering the length of time it has taken for the corrosion to develop, it is acceptable and it will not challenge the structural integrity of the grease cans and the cans will retain their ability to hold grease. The grease can replacement is required during the 25th-yr tendon surveillance (scheduled in 2009 per Ref's 6 & 7). Instructions have been added to the work orders (Ref's 6 & 7) to ensure replacement cans are procured and installed.

These grease cans will also be inspected one additional time prior to the 3rd 5-yr containment concrete examination surveillance to monitor the condition of the corrosion. This is tracked by ATI's 515883-03 and 515877-03 for Units 2 and 1 respectively. Therefore, although the observed condition exceeded the acceptance criteria established in Ref's 2 & 3, it met the acceptance criteria for the external grease can examinations of section 4.3.1 of Ref. 9.

During the conduct of this surveillance, all tendon grease cans at both Units were examined and no active corrosion was observed on any of the remaining grease cans.

The frequency of the containment concrete surfaces examination remains at 5 years with the additional examination scheduled once prior to the 3rd 5-yr surveillance.

Conclusion:

The active corrosion on tendon grease cans H01EF-F (Unit-2) and H01AC-C (Unit-1) as documented in this evaluation is acceptable (does not challenge the ability of the tendon grease cans to hold grease) without additional corrective actions until they are replaced in 2009 (per Ref's 6 & 7).

The existing frequency of concrete surfaces examination surveillance (every 5 years) is therefore, considered adequate per the current Concrete ISI Program requirements. The additional examinations are tracked by ATI's 515883-03 and 515877-03 for Units 2 and 1 respectively.

References:

- 1) 2001 Edition with the 2003 Addenda of ASME Section XI, Subsection IWL, Paragraph IWL-3310
- 2) WO #713045-01 (Unit-1)
- 3) WO #713046-01 (Unit-2)
- 4) WO #99238605-01 (Unit-2)

Section 6.0.1 Page 2 of 5

EVALUATE CONDITIONS THAT DID NOT MEET THE ACCEPTANCE CRITERIA DURING THE 2nd IWL 5-YEAR CONTAINMENT CONCRETE SURVEILLANCE

- 5) WO #99238606-01 (Unit-1)
- 6) WO #943328-01 (Unit-1)
- 7) WO #943330-01 (Unit-2)
- 8) Inland Ryerson drawing No. 170W18R (Attachment 2).
- 9) ER-AA-330-006 procedure (Rev.03)

Answers to applicable DAR questions:

Question 4.1.4.1:

The containment structures are designed to contain radioactive material that may be released from the reactor core following a design basis Loss Of Coolant Accident.

Additionally, they provide shielding from the fission products that may be present in the containment atmosphere following accident conditions. The tendon grease cans function to hold tendon sheathing protection medium.

Question 4.1.4.2:

The containment structures are Safety-Related.

Question 4.1.4.3:

The containment structures are seismically qualified.

Question 4.1.39:

The tendon grease cans only serve to retain grease and therefore, must only be able to support self weight and any applicable weight of grease (primarily only the grease inside the can). They are not subject to any other civil or structural loading requirements.

Question 4.1.40:

The grease cans are not safety-related and are not seismically qualified.

| Preparer: | Nader Vakili | Date: <u>10/20/06</u> |
|-----------|---------------------|-------------------------|
| | | |
| Reviewer: | Ron Janowiak | Date: _10/25/06 |
| | | |
| Approved: | Ken Kovar | Date: _10/26/06 |
| pp.o.ou | | |
| | loff Handricks | Data: 10/21/06 |
| - | Jeff Hendricks | _ Date: <u>10/31/06</u> |
| | ANII Representative | |

Section 6.0.1 Page 3 of 5

EVALUATE CONDITIONS THAT DID NOT MEET THE ACCEPTANCE CRITERIA DURING THE 2nd IWL 5-YEAR CONTAINMENT CONCRETE SURVEILLANCE

Attachment 1:

Recordable indications:

Cracks, exposed rebars or other metallic items, grease leakage, moisture, leaching, settlement, deflections, popouts, voids, spalls, honeycombs, bug holes, corrosion, scaling, coating deteriorations (including damage, flaking, blistering, peeling or missing coating), abrasions, wear, efflorescence, deviations from design drawings, and other irregularities.

Acceptance Criteria per IWL 3211 for components subject to the examination Category L-A requirements of IWL subsection (there are no augmented examinations) shall be as follows:

General conditions:

- a) No evidence of unusual contamination, foreign material or debris.
- b) No abrasion, erosion, cavitation, wear or any other degradation mechanism resulting in significant loss of concrete material.
- c) No unusual bulges on containment vessel structure.
- d) No deviation from the design drawings.
- e) No other conditions specified or not specified in the "Recordable Indication Type Codes" table of Attachment 6 of ER-AA-335-018 procedure that may violate the containment leak-tight integrity.

Tendon anchorage grease cans:

- a) No deformed or sheared threads in the zone of thread engagement of bolts, studs or nuts.
- b) No localized general corrosion that reduces the bolt or stud cross-sectional area.
- c) No bending, twisting or deformation of bolts or studs to the extent that assembly or disassembly is impaired.
- d) No fractured bolts, studs or nuts.
- e) No evidence of damage or discontinuities that may prevent an acceptable gasket seal between the bearing plate and the grease can.
- f) No bolting conditions that do not meet design/material specifications/drawings.
- g) No evidence of active corrosion.
- h) No evidence of grease leakage exceeding 10% of duct volume of the associate tendon.

Coated and uncoated concrete surfaces:

- a) No evidence of flaking, peeling, blistering, discoloration or other signs of distress other than caused by mechanical damage.
- b) No evidence of active coating wear or erosion.
- c) No appearance of leaching or concrete attack.
- d) No evidence of missing required coating.
- e) No harsh environments that may reduce the life of the coating.
- f) No popouts, scaling, spalls and bug holes of any shape and size that breach the concrete cover.
- g) No corrosion staining of undefined source on the concrete surfaces.
- h) No cracks greater than .04" in maximum width.
- i) No settlement or deflection visible to the unaided eye.
- j) No occurrence of exposed reinforcing steel other than nonstructural exposed rebars, embedded metallic or nonmetallic items that do not adversely impact the structural function of the components.
- k) No apparent patch or repair on the concrete surface.
- I) No wetness other than temporary moisture.
- m) No surface Efflorescence other than those from adjacent non-IWL components.

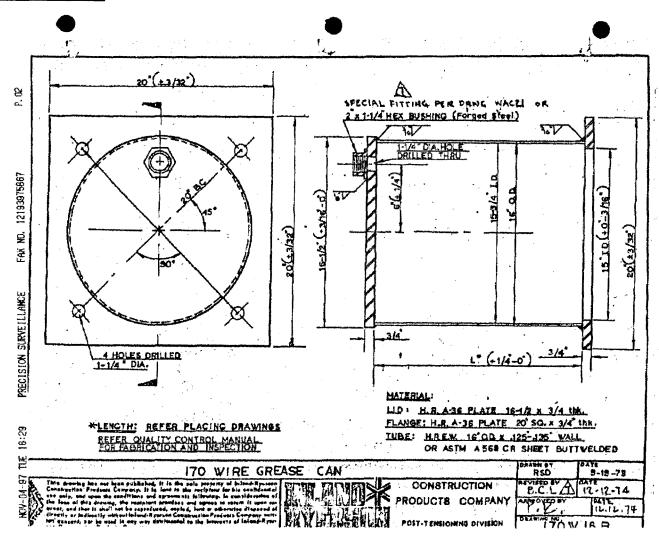
Items exceeding the acceptance criteria shall be considered **suspect areas** and would require introduction into the plant's Corrective Action Program and, resolution in accordance with IWL section 3000 (and applicable parts of section 4.7 of ER-AA-335-018). If a documented resolution, either complete or ongoing, exists that adequately addresses the as-found observed condition, it need not be considered a suspect area and should be recorded for information only.

Recordable Indications that are not classified as suspect areas do not require documentation in the plant's CAP.

Section 6.0.1 Page 4 of 5

EVALUATE CONDITIONS THAT DID NOT MEET THE ACCEPTANCE CRITERIA DURING THE 2nd IWL 5-YEAR CONTAINMENT CONCRETE SURVEILLANCE

Attachment 2:



Section 6.0.1 Page 5 of 5

CONDITIONS FOUND DURING THE INSPECTION OF PENETRATION 2PC064M

Reason for Evaluation/Scope:

The visual inspection (VT-3) of the U-2 spare penetration #64 bolting per the requirements of IWE subsection and Byron CISI program identified 2 of the 16 bolting as having damaged threads (Recordable Indication) thus not meeting the Acceptance Standards (Recordable Indications did not meet Acceptance Criteria established prior to the inspection).

Byron station is using the 2001 Edition of ASME Code Section XI, Subsection IWE with 2003 Addenda.

This condition is documented in IR #61167 thus meeting section 4.10.1 of ER-AA-330-007, Rev. 5.

An Engineering Evaluation per Section 4.10.2 of ER-AA-330-007 is not required as the defective studs are replaced.

No supplemental examination per Section 4.10.3 of ER-AA-330-007 is required other than the new studs being inspected prior to installation since no Engineering Evaluation is required.

No additional examinations per Section 4.10.4 of ER-AA-330-007, Rev. 5 are required as the examination was conducted to the later than 1998 Edition of the ASME Code, Section XI. The only other required examination is the re-inspection of the new studs prior to installation.

Since the defective studs are replaced, no re-examination is required in the next refueling outage (Examination Cat E-C is not applicable). However, if this connection is scheduled for disassembly during B2R14, it will then be inspected. This meets the intent of the requirements of Section 4.10.5 of ER-AA-330-007.

The conditions discovered with this connection do not indicate the presence of similar condition in other connections that are not disassembled (considered inaccessible areas) during this outage. Penetration #74 was also disassembled and the examination results met the Acceptance Standards. Therefore, the Evaluation as required per 10CFR50.55a (and hence, Section 4.11 of ER-AA-330-007) is not applicable.

Conclusion:

Per Section 4.12 of ER-AA-330-007, the following information is provided to be included in the ISI Summary Report:

- 1) A few threads on the shank of two studs out of 16 on spare Penetration #64 were noted per VT-3 visual examination method to be damaged (prevented rotation through nuts) when the connection was disassembled. This condition did not meet the acceptance Criteria (no damaged threads) established by the Owner prior to the examination. The degradation is attributed to the mishandling of the studs during the disassembly phase.
- 2) No evaluation was required of the inaccessible areas (remaining assembled connections) as a similar disassembled connection (Penetration #74) did not exhibit any signs of degradation.
- 3) The studs were replaced like-for-like prior to the start of the Unit-2 operation.

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CONDITIONS FOUND DURING THE INSPECTION OF PENETRATION 2PC064M

The pressure testing requirements of IWE-5000 (specifically, IWE-5221, leakage test) are met when this connection was local leak rate tested at the end of B2R13 per 2BOSR 6.1.1-25.

References:

- 1) 2001 Edition with the 2003 Addenda of ASME Section XI, Subsection IWL and IWE
- 2) Exelon procedure ER-AA-330-007 Revision 5, Visual Examination of Section XI Class MC Surfaces and Class CC Liners
- 3) Byron procedure 2BOSR 6.1.1-25 Revision 6, *Unit Two Primary Containment Type B Local Leakage Rate Test of Spare Containment Penetrations*

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