| ES-401 | | Record of Rejected K/As | Form ES-401-10 |
|--------------|-----------------------|---|----------------|
| Tier / Group | Randomly Selected K/A | Reason for Rejection | |
| 1/2 | 295012 AA2.02 | Per NRC revision. Replaced with 295024 EK3.01 | |
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| Facility: Vermont Y | ankee | | Dat | e of E | xam: | Aug | 12, 2 | 2002 | | Exan | n Lev | el: SF | RO |
|------------------------------|----------------|--------|--------|--------|--------|-----------|--------|-----------|--------|-----------|--------|--------|----------------|
| | | | | | K/ | A Cat | egory | Poin | ts | | | | D-:-4 |
| Tier | Group | K 1 | K 2 | K 3 | K 4 | K 5 | K 6 | A 1 | A 2 | A 3 | A 4 | G * | Point Total |
| 1. Emergency & | 1 | 5 | 4 | 6 | | | | 4 | 4 | | | 4 | 27** |
| Abnormal Plant Evolutions | 2 | 3 | 3 | 3 | | | | 2 | 2 | | | 3 | 16** |
| | Tier Totals | 8 | 7 | 8 | 100 | P. | | 6 | 7 | Ü | | 7 | 43 |
| 2. | 1 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 23 |
| Plant Systems | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 13 |
| | 3 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | . 1 | 4 |
| | Tier Totals | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 2 | 6 | 40 |
| 3. Generic l | Knowledge an | id Abi | lities | | | at 1 5 | | at 2 4 | | at 3 4 | 1 | at 4 | 17 |

Note: 1. Ensure that at least two topics from every K/A category are sampled within each tier (i.e., the "Tier Totals" in each K/A category shall not be less than two).

- 2.** The point total for each group and tier in the proposed outline must match that specified in the table. The final point total for each group and tier may deviate by ± 1 from that specified in the table based on NRC revisions. The final exam must total 100 points.
- 3. Select topics from many systems; avoid selecting more than two or three K/A topics from a given system unless they relate to plant-specific priorities.
- 4. Systems/evolutions within each group are identified on the associated outline.

5. The shaded areas are not applicable to the category/tier.

- 6.* The generic K/As in Tiers 1 and 2 shall be selected from Section 2 of the K/A Catalog, but the topics must be relevant to the applicable evolution or system.
- 7. On the following pages, enter the K/A numbers, a brief description of each topic, the topics' importance ratings for the RO license level, and the point totals for each system and category. K/As below 2.5 should be justified on the basis of plant-specific priorities. Enter the tier totals for each category in the table above.

ES - 401

Facility: Vermont Yankee

Emergency and Abnormal Plant Evolutions - Tier 1 / Group 1

Printed: 07/24/2002

| | | Emer gene | yand | ADI | iorm | al PI | ant | Evolutions - Tier 1 / Group 1 | Form | ES-401- |
|--------|---------------------------------------|-----------|------|-----|------|-------|-----|---|------|---------|
| E/APE# | E/APE Name / Safety Function | K1 | K2 | КЗ | A1 | A2 | G | KA Topic | Imp. | Points |
| 295006 | SCRAM/1 | | | | | | x | 2.4.29 - Knowledge of the emergency plan. | 4.0 | 1 |
| 295006 | SCRAM/1 | х | | | | | | AK1.02 - Shutdown margin | 3.7 | 1 |
| 295007 | High Reactor Pressure / 3 | X | | | | | | AK1.04 - Turbine load | 2.8 | 1 |
| 295007 | High Reactor Pressure / 3 | | | х | | | | AK3.05 - Low pressure system isolation | 3.2 | 1 1 |
| 295009 | Low Reactor Water Level / 2 | | | х | | | | AK3.01 - Recirculation pump run back: Plant-Specific | 3.3 | 1 |
| 295013 | High Suppression Pool Temperature / 5 | | х | | | | | AK2.01 - Suppression pool cooling | 3.7 | 1 |
| 295013 | High Suppression Pool Temperature / 5 | | | | х | | | AA1.01 - Suppression pool cooling | 3.9 | 1 |
| 295014 | Inadvertent Reactivity Addition / 1 | | | | | х | | AA2.04 - †Violation of fuel thermal limits | 4.4 | 1 |
| 295014 | Inadvertent Reactivity Addition / 1 | | | Х | | | | AK3.01 - Reactor SCRAM | 4.1 | 1 |
| 295016 | Control Room Abandonment / 7 | | | Х | | | | AK3.03 - Disabling control room controls | 3.7* | 1 |
| 295016 | Control Room Abandonment / 7 | | | | | х | | AA2.03 - Reactor pressure | 4.4* | 1 |
| 295017 | High Off-Site Release Rate / 9 | | | | | | х | 2.4.7 - Knowledge of event based EOP mitigation strategies. | 3.8 | 1 |
| 295017 | High Off-Site Release Rate / 9 | х | | | | | | AK1.02 - †Protection of the general public | 4.3* | 1 |
| 295023 | Refueling Accidents / 8 | х | | | | | | AK1.01 - Radiation exposure hazards | 4.1 | 1 |
| 95023 | Refueling Accidents / 8 | | х | | | | | AK2.04 - RMCS/Rod control and information system | 3.4 | 1 |

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K/A Category Totals: 5 4

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| E/APE# | Zinci. | geney | , and | AU | uori | nai P | lant | Evolutions - Tier 1 / Group 1 | Form | ES-401- |
|--------|--|-------|-------|----|------|-------|------|--|------|----------|
| E/APE# | E/APE Name / Safety Function | K1 | K2 | КЗ | A1 | l A2 | G | KA Topic | Y | |
| 295024 | High Drywell Pressure / 5 | х | | | | | | EK1.01 - Drywell integrity: Plant-Specific | Imp. | Points |
| 295024 | High Drywell Pressure / 5 | | х | | | | | EK2.17 - Auxiliary building isolation logic: Plant-Specific | 3.3 | 1 |
| 295024 | High Drywell Pressure / 5 | | | х | | | | EK3.01 - Drywell spray operation: Mark-I&II | 10 | |
| 295025 | High Reactor Pressure / 3 | | | | Х | | | EA1.07 - ARI/RPT/ATWS: Plant-Specific | 4.0 | 1 |
| 95026 | Suppression Pool High Water Temperature / 5 | | х | | | | | | 4.1 | 1 |
| 95026 | Suppression Pool High Water Temperature / 5 | | | | | | х | EK2.03 - Suppression chamber pressure: Mark-I&II 2.1.33 - Ability to recognize indications for system operating parameters which are entry-level conditions for technical specifications. | 4.0 | 1 |
| 95031 | Reactor Low Water Level / 2 | | | | | Х | | EA2.02 - Reactor power | 4.04 | |
| 95031 | Reactor Low Water Level / 2 | | | x | | | | EK3.03 - Spray cooling | 4.2* | <u>l</u> |
| 95037 | SCRAM Condition Present and Reactor Power Above APRM Downscale or Unknown / 1 | | | | Х | | | EA1.06 - Neutron monitoring system | 4.4* | 1 |
| 95038 | High Off-Site Release Rate / 9 | | | | | | X | 2.4.7 - Knowledge of event based EOP mitigation strategies. | 3.8 | 1 |
| 00000 | High Containment Hydrogen Concentration / 5 | | | | | х | | EA2.02 - Oxygen monitoring system availability | 2.5 | |
| 00000 | High Containment Hydrogen Concentration / 5 | | | | х | | - 1 | EA1.06 - Drywell sprays | 3.5 | 1 |

2

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Facility: Vermont Yankee

ES - 401

Emergency and Abnormal Plant Evolutions - Tier 1 / Group 2

Form ES-401-1

| E3 - 401 | LATE CONTRACTOR OF THE CONTRAC | er gency | anu | ADII | VI 1111 | 41 1 16 | ILL J | Evolutions - Tier 17 Group 2 | 1 01111 | 120-401-1 |
|----------|--|----------|-----|------|---------|---------|-------|---|---------|-----------|
| E/APE# | E/APE Name / Safety Function | K1 | К2 | КЗ | A1 | A2 | G | KA Topic | Imp. | Points |
| 295002 | Loss of Main Condenser Vacuum / 3 | | | | | | Х | 2.1.6 - Ability to supervise and assume a management role during plant transients and upset conditions. | 4.3 | 1 |
| 295004 | Partial or Complete Loss of D.C. Power / 6 | | | | | Х | | AA2.04 - System lineups | 3.3 | 1 |
| 295004 | Partial or Complete Loss of D.C. Power / 6 | | | х | | | | AK3.01 - †Load shedding: Plant-Specific | 3.1 | 1 |
| 295005 | Main Turbine Generator Trip / 3 | | | | | | x | 2.4.7 - Knowledge of event based EOP mitigation strategies. | 3.8 | 1 |
| 295005 | Main Turbine Generator Trip / 3 | | x | | | | | AK2.08 - A.C. electrical distribution.: | 3.3 | 1 |
| 295008 | High Reactor Water Level / 2 | | х | | | | | AK2.04 - PCIS/NSSSS: Plant-Specific | 3.3 | 1 |
| 295008 | High Reactor Water Level / 2 | | | x | | | | AK3.05 - HPCI turbine trip: Plant-Specific | 3.6 | 1 |
| 295012 | High Drywell Temperature / 5 | Х | | | | | | AK1.01 - Pressure/temperature relationship | 3.5 | 1 |
| 295018 | Partial or Complete Loss of Component Cooling Water / 8 | | | | х | | | AA1.03 - Affected systems so as to isolate damaged portions | 3.4 | 1 |
| 295021 | Loss of Shutdown Cooling / 4 | | | х | | | | AK3.04 - Maximizing reactor water cleanup flow | 3.4 | 1 |
| 295021 | Loss of Shutdown Cooling / 4 | | x | | | | | AK2.04 - Component cooling water systems: Plant-Specific | 3.1 | 1 |
| 295022 | Loss of CRD Pumps / 1 | х | | | | | | AK1.01 - Reactor pressure vs. rod insertion capability | 3.4 | 1 |
| 295028 | High Drywell Temperature / 5 | | | | х | | | EA1.01 - Drywell spray: Mark-I&II | 3.9 | 1 |
| 295029 | High Suppression Pool Water Level / 5 | | | | | х | | EA2.03 - Drywell/containment water level | 3.5 | 1 |

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ES - 401

Emergency and Abnormal Plant Evolutions - Tier 1 / Group 2

Form FS-401.1

Printed: 07/24/2002

| | | | | | | T | 1 | Evolutions - Her 17 Group 2 | Form. | ES-401-1 |
|--------|--|-------------|----|----|----|----|---|--|-------|----------|
| E/APE# | E/APE Name / Safety Function | K1 | K2 | КЗ | A1 | A2 | G | KA Topic | Imp. | Points |
| 295033 | High Secondary Containment Area Radiation Levels / 9 | х | | | | | | EK1.03 - †Radiation releases | 4.2* | 1 |
| 295034 | Secondary Containment Ventilation High Radiation / 9 | | | | | | | 2.2.15 - Ability to identify and utilize as-built design and configuration change documentation to ascertain expected current plant configuration and operate the plant. | 2.9 | 1 |

K/A Category Totals: 3 3 3 2 2 3

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ES - 401

Plant Systems - Tier 2 / Group 1

Form ES-401-1

| E3 - 401 | | | | | | | , | lant | Systi | ciii2 - | Tiel | 21 | Group 1 | roini. | ES-401-1 |
|----------|---|----|----|----|----|----|----|------|-------|---------|------|----|--|--------|----------|
| Sys/Ev # | System / Evolution Name | K1 | К2 | кз | K4 | K5 | K6 | A1 | A2 | A3 | A4 | G | KA Topic | Imp. | Points |
| 202002 | Recirculation Flow Control System / 1 | x | | · | | | | | | | | | K1.10 - Rod pattern | 2.6 | 1 |
| 203000 | RHR/LPCI: Injection Mode (Plant Specific) / 2 | x | | | | | | | | | | | K1.16 - Component cooling water systems | 3.2 | 1 |
| 203000 | RHR/LPCI: Injection Mode (Plant Specific) / 2 | | | | | | х | | | | | | K6.01 - A.C. electrical power | 3.7 | 1 |
| 209001 | Low Pressure Core Spray System / 2 | | | | x | | | | | | | | K4.05 - Pump minimum flow | 2.6 | 1 |
| 209001 | Low Pressure Core Spray System / 2 | | | | | х | | | | | = | | K5.04 - Heat removal (transfer) mechanisms | 2.9 | 1 |
| 211000 | Standby Liquid Control System / 1 | | | | | | | | | | | х | 2.4.16 - Knowledge of EOP implementation hierarchy and coordination with other support procedures. | 4.0 | 1 |
| 211000 | Standby Liquid Control System / 1 | | x | | | | | | | | | | K2.02 - Explosive valves | 3.2* | 1 |
| 215005 | Average Power Range Monitor/Local Power Range Monitor System / 7 | | | | | | | | | x | | | A3.06 - Maximum disagreement between flow comparator channels: Plant-Specific | 3.1 | 1 |
| 215005 | Average Power Range Monitor/Local Power Range Monitor System / 7 | | | | | | | | | | x | | A4.04 - LPRM back panel switches, meters and indicating lights | 3.2 | 1 |
| 217000 | Reactor Core Isolation Cooling System (RCIC) / 2 | | | | | | | | | | | х | 2.2.10 - Knowledge of the process for determining if the margin of safety, as defined in the basis of any technical specification is reduced by a proposed change, test or experiment. | 3.3 | 1 |
| 218000 | Automatic Depressurization System / 3 | | | | | | | | x | | | | A2.02 - Large break LOCA | 3.6* | 1 |

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Facility: Vermont Yankee

ES - 401

Plant Systems - Tier 2 / Group 1

Form ES-401-1

| Sys/Ev# | System / Evolution Name | K1 | K2 | КЗ | K4 | K5 | K6 | A1 | A2 | A3 | A4 | G | KA Topic | Imp. | Points |
|---------|--|----|----|----|----|----|----|----|----|----|----|---|--|------|--------|
| 223001 | Primary Containment System and Auxiliaries / 5 | | х | | | | | | | | | | K2.08 - Containment cooling air handling units: Plant-Specific | 3.0* | 1 |
| 223001 | Primary Containment System and Auxiliaries / 5 | | | | | | х | | | | | | K6.08 - Containment atmospheric control | 3.4 | 1 |
| 223002 | Primary Containment Isolation System/Nuclear Steam Supply Shut-Off / 5 | х | | | | | | | | | | | K1.06 - Recirculation system | 3.2 | 1 |
| 223002 | Primary Containment Isolation System/Nuclear Steam Supply Shut-Off / 5 | | | | | | | х | | · | | | A1.03 - SPDS/ERIS/CRIDS/GDS: Plant-Specific | 2.8* | 1 |
| 226001 | RHR/LPCI: Containment Spray System Mode / 5 | | | | | | | | | | | Х | 2.3.2 - Knowledge of facility ALARA program. | 2.9 | 1 |
| 241000 | Reactor/Turbine Pressure Regulating System / 3 | | | х | | | | | | | | | K3.01 - Reactor power | 4.1 | 1 |
| 261000 | Standby Gas Treatment System / 9 | | | | | | | x | | | | | A1.04 - Secondary containment differential pressure | 3.3 | 1 |
| 261000 | Standby Gas Treatment System / 9 | | | | | | | | | x | | | A3.03 - Valve operation | 2.9 | 1 |
| 262001 | A.C. Electrical Distribution / 6 | | | х | | | | | | | | | K3.03 - D.C. electrical distribution | 3.2 | 1 |
| 262001 | A.C. Electrical Distribution / 6 | | | | | x | | | | | | | K5.02 - Breaker control | 2.9 | 1 |

290001 Secondary Containment / 5

Х

K4.02 - Protection against over pressurization: Plant-System

3.5

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ES - 401

| 25-401 | | | | | | , | <u> </u> | 'lant | Syst | ems - | Tie | 2/ | Group 1 | Form ! | ES-401-1 | |
|---------|---------------------------|----|----|-------------|----|----|----------|-------|------|-------|-----|----|---------------------------------|--------|----------|--|
| Sys/Ev# | System / Evolution Name | K1 | K2 | КЗ | K4 | K5 | K6 | A1 | A2 | A3 | A4 | G | KA Topic | Imp. | Points | |
| 290001 | Secondary Containment / 5 | | | | | | | | v | | | | | | TOMES | |
| | Secondary Contaminent, 5 | 1 | 1 | 1 | 1 | 1 | 1 | ľ | ^ | | | 1 | A2.04 - High airborne radiation | 3.7 | 1 1 | |

K/A Category Totals: 3 2 2 2 2 2 2 2 1 3

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| ES - 401 | | | | | | , | F | Plant | Syste | ems - | Tier | 2/ | Group 2 | Form | ES-401- |
|----------|--|----|-------------|----|----|----|----|-------|-------|-------|------|----|---|------|---------|
| Sys/Ev# | System / Evolution Name | K1 | K2 | КЗ | K4 | K5 | K6 | A1 | A2 | A3 | A4 | G | KA Topic | Imp. | Points |
| 201001 | Control Rod Drive Hydraulic System / | | | | | | | | | | | x | 2.2.33 - Knowledge of control rod programming. | 2.9 | 1 |
| 214000 | Rod Position Information System / 7 | | | | | х | | | | | | | K5.01 - Reed switches | 2.8 | 1 |
| 219000 | RHR/LPCI: Torus/Suppression Pool Cooling Mode / 5 | | | | х | | | | | | | | K4.05 - Pump minimum flow protection | 3.2 | 1 |
| 234000 | Fuel Handling Equipment / 8 | | | | | | | | | | | x | 2.1.11 - Knowledge of less than one hour technical specification action statements for systems. | 3.8 | 1 |
| 259001 | Reactor Feedwater System / 2 | | | | | | | | x | | | | A2.06 - Loss of A.C. electrical power | 3.2 | 1 |
| 259001 | Reactor Feedwater System / 2 | | | | | | | | | х | | | A3.07 - FWRV position | 3.2 | 1 |
| 263000 | D.C. Electrical Distribution / 6 | | | х | | | | | | | | | K3.03 - Systems with D.C. components (i.e. valves, motors, solenoids, etc.) | 3.8 | 1 |
| 271000 | Offgas System / 9 | | | | | | | | | | x | | A4.05 - Station radioactive release rate | 3.9 | 1 |
| 272000 | Radiation Monitoring System / 7 | | x | | | | | | | | į | | K2.03 - Stack gas radiation monitoring system | 2.8 | 1 |
| 272000 | Radiation Monitoring System / 7 | | | | | | х | | | | | | K6.03 - A.C. power | 3.0 | 1 |
| 286000 | Fire Protection System / 8 | х | | | | | | | | | | | K1.05 - Main generator hydrogen system: Plant-Specific | 3.1 | 1 |
| 286000 | Fire Protection System / 8 | | | | | x | | | | | | | K5.05 - Diesel operations | 3.1* | 1 |

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ES - 401

Plant Systems - Tier 2 / Group 2

Form ES-401-1

| | | | | | | | | | | | | | | | |
|---------|-------------------------|----|----|----|----|----|----|----|-------------|----|----|---|-------------------------------|------|--------|
| Sys/Ev# | System / Evolution Name | K1 | К2 | КЗ | K4 | K5 | K6 | A1 | A2 | A3 | A4 | G | KA Topic | Imp. | Points |
| 290003 | Control Room HVAC / 9 | | | | | | | х | | | | | A1.04 - Control room pressure | 2.8 | 1 |

K/A Category Totals: 1 1 1 1 2 1 1 1 1 2

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| LS - 401 | | | | | | · | <u> </u> | lant | Syst | ems - | Tier | 2 / | Group 3 | Form | ES-401-1 |
|----------|------------------------------------|----|----|----|----|----|----------|------|------|-------|------|-----|--|------|----------|
| Sys/Ev# | System / Evolution Name | K1 | К2 | КЗ | K4 | K5 | K6 | A1 | A2 | A3 | A4 | G | KA Topic | Imp. | Points |
| 215001 | Traversing In-Core Probe / 7 | | | | | | х | | | | | | K6.04 - Primary containment isolation system: Mark-I&II(Not-BWR1) | 3.4 | 1 |
| 233000 | Fuel Pool Cooling and Clean-up / 9 | | | | х | | | | | | | | K4.07 - Supplemental heat removal capability | 2.9 | 1 |
| 239001 | Main and Reheat Steam System / 3 | | | | | | | | | | | x | 2.2.17 - Knowledge of the process for managing maintenance activities during power operations. | 3.5 | 1 |
| 256000 | Reactor Condensate System / 2 | | | | | | | x | | | | | A1.10 - Condenser vacuum | 3.1 | 1 |

K/A Category Totals: 0 0 0 1 0 1 1 0 0 0 1

Generic Knowledge and Abilities Outline (Tier 3)

BWR SRO Examination Outline

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Form ES-401-5

| Conduct of Operations 2.1.11 Knowledge of less than one hour technical specification action statements for systems. 2.1.33 Ability to recognize indications for system operating parameters which are entry-level conditions for technical specifications. 2.1.28 Knowledge of the purpose and function of major system components and controls. 2.1.29 Knowledge of how to conduct and verify valve lineups. 3.3 1 2.1.20 Ability to perform specific system and integrated plant procedures during different modes of plant operation. Category Total: 5. Equipment Control 2.2.22 Knowledge of bases in technical specifications for operations and safety limits. 2.2.25 Knowledge of bases in technical specifications for limiting conditions for operations and safety limits. 2.2.2.27 Knowledge of the refueling process. 3.4 1 4.1 1 4.1 1 4.1 1 4.2 2.2.2 Knowledge of the process for controlling temporary changes. 3.4 2 4.1 1 4.1 1 4.2 2.2.2 Knowledge of the process for controlling temporary changes. 3.4 2 4.1 1 4.1 | | | | | |
|--|-----------------------|--------|---|-----------|--------|
| Ability to recognize indications for system operating parameters which are entry-level conditions for technical specifications. Knowledge of the purpose and function of major system components and controls. 2.1.28 Knowledge of how to conduct and verify valve lineups. 2.1.29 Knowledge of how to conduct and verify valve lineups. Ability to perform specific system and integrated plant procedures during different modes of plant operation. Category Total: 5 Equipment Control 2.2.22 Knowledge of limiting conditions for operations and safety limits. 2.2.25 Knowledge of bases in technical specifications for limiting conditions for operations and safety limits. Knowledge of the refueling process. 2.2.11 Knowledge of the refueling process. 3.4* 1 Radiation Control 2.3.10 Ability to perform procedures to reduce excessive levels of radiation and guard against personnel exposure. Knowledge of the requirements for reviewing and approving release permits. 3.0 1 Knowledge of the requirements for reviewing and approving release permits. 3.1 1 3.2 1 3.3 1 4.0 1 5.0 1 | Generic Category | KA | KA Topic | Imp. | Points |
| 2.1.28 Knowledge of the purpose and function of major system components and controls. 2.1.29 Knowledge of how to conduct and verify valve lineups. 2.1.23 Ability to perform specific system and integrated plant procedures during different modes of plant operation. Category Total: 5 Equipment Control 2.2.22 Knowledge of limiting conditions for operations and safety limits. 2.2.25 Knowledge of bases in technical specifications for limiting conditions for operations and safety limits. 2.2.27 Knowledge of the refueling process. 2.2.11 Knowledge of the process for controlling temporary changes. 3.3 1 1 1 2.3.10 Ability to perform procedures to reduce excessive levels of radiation and guard against personnel exposure. Knowledge of the requirements for reviewing and approving release permits. 3.3 1 2.3.10 Knowledge of the requirements for reviewing and approving release permits. 3.3 1 2.3.10 Knowledge of the process for controlling temporary changes. 3.3 1 2.3.10 Knowledge of the requirements for reviewing and approving release permits. 3.1 1 3.2 1 3.3 1 4.0 1 4. | Conduct of Operations | 2.1.11 | Knowledge of less than one hour technical specification action statements for systems. | 3.8 | l |
| 2.1.28 Knowledge of the purpose and function of major system components and controls. 3.3 1 | | 2.1.33 | conditions for technical specifications. | 4.0 | 1 |
| Ability to perform specific system and integrated plant procedures during different modes of plant operation. Category Total: 5 Equipment Control 2.2.22 Knowledge of limiting conditions for operations and safety limits. 2.2.25 Knowledge of bases in technical specifications for limiting conditions for operations and safety limits. 2.2.27 Knowledge of the refueling process. 3.5 1 2.2.11 Knowledge of the process for controlling temporary changes. Category Total: 4 Radiation Control 2.3.10 Ability to perform procedures to reduce excessive levels of radiation and guard against personnel exposure. Knowledge of the requirements for reviewing and approving release permits. 3.1 1 2.3.16 Knowledge of 10 CFR 20 and related facility radiation control requirements. 3.0 1 | | 2.1.28 | Knowledge of the purpose and function of major system components and controls. | 3.3 | 1 |
| Equipment Control 2.2.22 Knowledge of limiting conditions for operations and safety limits. 2.2.25 Knowledge of bases in technical specifications for limiting conditions for operations and safety limits. 2.2.27 Knowledge of the refueling process. 3.5 1 2.2.11 Knowledge of the process for controlling temporary changes. 3.4* 1 Radiation Control 2.3.10 Ability to perform procedures to reduce excessive levels of radiation and guard against personnel exposure. Knowledge of the requirements for reviewing and approving release permits. 3.1 1 2.3.1 Knowledge of 10 CFR 20 and related facility radiation control requirements. 3.0 1 | | 2.1.29 | Knowledge of how to conduct and verify valve lineups. | 3.3 | 1 |
| Equipment Control 2.2.22 Knowledge of limiting conditions for operations and safety limits. 2.2.25 Knowledge of bases in technical specifications for limiting conditions for operations and safety limits. 2.2.27 Knowledge of the refueling process. 3.5 1 2.2.11 Knowledge of the process for controlling temporary changes. 3.4* 1 Radiation Control 2.3.10 Ability to perform procedures to reduce excessive levels of radiation and guard against personnel exposure. Knowledge of the requirements for reviewing and approving release permits. 3.1 1 Knowledge of 10 CFR 20 and related facility radiation control requirements. 3.0 1 | | 2.1.23 | Ability to perform specific system and integrated plant procedures during different modes of plant operation. | 4.0 | 1 |
| Radiation Control 2.2.25 Knowledge of bases in technical specifications for limiting conditions for operations and safety limits. 2.2.27 Knowledge of the refueling process. 2.2.11 Knowledge of the process for controlling temporary changes. 3.5 1 2.2.11 Knowledge of the process for controlling temporary changes. Category Total: 4 Radiation Control 2.3.10 Ability to perform procedures to reduce excessive levels of radiation and guard against personnel exposure. 2.3.6 Knowledge of the requirements for reviewing and approving release permits. 3.1 1 2.3.1 Knowledge of 10 CFR 20 and related facility radiation control requirements. 3.0 1 | | | | ry Total: | 5 |
| 2.2.27 Knowledge of the refueling process. 2.2.11 Knowledge of the process for controlling temporary changes. 3.5 1 2.2.11 Knowledge of the process for controlling temporary changes. Category Total: 4 Radiation Control 2.3.10 Ability to perform procedures to reduce excessive levels of radiation and guard against personnel exposure. 2.3.6 Knowledge of the requirements for reviewing and approving release permits. 3.1 1 2.3.1 Knowledge of 10 CFR 20 and related facility radiation control requirements. 3.5 1 1.7 1 2.4 2.5 1 3.5 1 3.6 1 3.7 1 3.8 1 3.9 1 3.9 1 3.9 1 4.0 | Equipment Control | 2.2.22 | Knowledge of limiting conditions for operations and safety limits. | 4.1 | 1 |
| 2.2.11 Knowledge of the process for controlling temporary changes. Category Total: 4 Radiation Control 2.3.10 Ability to perform procedures to reduce excessive levels of radiation and guard against personnel exposure. 2.3.6 Knowledge of the requirements for reviewing and approving release permits. 3.5 1 3.4* 1 2.3.1 Knowledge of the process for controlling temporary changes. 3.4* 1 2.3.1 Knowledge of the process for controlling temporary changes. 3.4* 1 2.3.1 Knowledge of the process for controlling temporary changes. 3.4* 1 2.3.1 Knowledge of the process for controlling temporary changes. 3.4* 1 3.5 1 3.6* 1 3.7* 1 3.8* 1 4.8* 1 4.9* | | 2.2.25 | Knowledge of bases in technical specifications for limiting conditions for operations and safety limits. | 3.7 | 1 |
| Radiation Control 2.3.10 Ability to perform procedures to reduce excessive levels of radiation and guard against personnel exposure. 2.3.6 Knowledge of the requirements for reviewing and approving release permits. 3.4* 1 4 2.3.10 Ability to perform procedures to reduce excessive levels of radiation and guard against personnel exposure. 3.3 1 3.1 1 3.3 1 3.3 1 3.3 1 3.3 1 3.3 1 3.3 1 3.3 1 4 4 5 6 7 7 8 8 8 9 9 9 9 9 | | 2.2.27 | Knowledge of the refueling process. | 3.5 | 1 |
| Radiation Control 2.3.10 Ability to perform procedures to reduce excessive levels of radiation and guard against personnel exposure. 2.3.6 Knowledge of the requirements for reviewing and approving release permits. 3.3 1 2.3.1 Knowledge of 10 CFR 20 and related facility radiation control requirements. 3.3 1 3.3 1 3.3 1 | | 2.2.11 | Knowledge of the process for controlling temporary changes. | 3.4* | 1 |
| 2.3.6 Knowledge of the requirements for reviewing and approving release permits. 3.3 1 3.3 1 3.3 1 Knowledge of the requirements for reviewing and approving release permits. 3.1 1 3.2 3.1 1 | | | Categor | y Total: | 4 |
| 2.3.6 Knowledge of the requirements for reviewing and approving release permits. 3.1 1 2.3.1 Knowledge of 10 CFR 20 and related facility radiation control requirements. 3.0 1 | Radiation Control | 2.3.10 | Ability to perform procedures to reduce excessive levels of radiation and guard against personnel exposure. | 3.3 | 1 |
| 3.0 1 | | 2.3.6 | | 3.1 | 1 |
| | | 2.3.1 | Knowledge of 10 CFR 20 and related facility radiation control requirements. | 3.0 | 1 |
| 2.3.2 Knowledge of facility ALARA program. 2.9 1 | | 2.3.2 | Knowledge of facility ALARA program. | 2.9 | 1 |

Category Total: 4

Generic Knowledge and Abilities Outline (Tier 3)

BWR SRO Examination Outline

Printed: 07/24/2002

Facility: Vermont Yankee

Form ES-401-5

| Generic Category | KA | KA Topic | Imp. | Points |
|------------------|--------|--|------|--------|
| Emergency Plan | | Knowledge of how the event-based emergency/abnormal operating procedures are used in conjunction with the symptom-based EOPs. Knowledge of abnormal condition procedures. | 3.7 | 1 |
| | | Knowledge of communications procedures associated with EOP implementation. | 3.5 | 1 |
| | 2.4.46 | Ability to verify that the alarms are consistent with the plant conditions. | 3.6 | 1 |

Category Total: 4

Generic Total: 17