PSEG Nuclear LLC Nuclear Training Center 244 Chestnut Street, Salem, N.J. 08079 fax: 856.339.3997

NTD-03-3003



January 10, 2003

Mr. Todd Fish U.S. Nuclear Regulatory Commission 475 Allendale Road King of Prussia, PA 19406-1415

Dear Mr. Fish,

Enclosed please find the following 2 documents:

- 1. Permanent K/A suppression list for Salem Generating Station.
- 2. Salem Initial License Written Exam Outline for Jeffrey Scanish (SROU retake).

The K/A suppression list will become permanent upon your review and approval. The suppression list was derived from guidance provided on the NRC web site titled "K/A Supression".

The outline for Jeff Scanish's SROU written exam retake was requested to be sent to you by Alan Blamey, during a post exam review conversation of the Salem "G" Initial License Operator NRC exam conducted November 4-15, 2002. This outline <u>excludes</u> those K/A's noted on the Permanent Suppression List included in this package.

Mr. Scanish's docket # is 55-61969.

I will be the point of contact for this exam. I can be reached at 856-339-1554. Please contact me with any questions or concerns.

Sincerely,

Aud DA.

Gerald S. Gauding

GG:blm Attachments

C NBS Records (N64)



ES-401

PWR SRO Examination Outline

Printed: 01/09/2003

Facility: Salem Form ES-401-3

Exam Date: 05/21/2003

Exam Level: SRO

| Tier | Group | | | | K | JA Ca | tegory | Points | | | | | Point |
|----------------------------|----------------|-------------|-----------|----------|-----------|------------|----------|------------|------------|--------------|----------|------------|-------|
| 1 101 | Group | K1 | К2 | K3 | K4 | K5 | K6 | A1 | A2 | A3 | A4 | Ġ | Total |
| | 1 | 4 | 4 | 4 | | | | 4 | 4 | | 1 | 4 | 24 |
| 1. | 2 | 3 | 3 | 3 | | | | 3 | 2 | | | 2 | 16 |
| Emergency & Abnormal | 3 | 1 | 0 | 0 | | | | 0 | 1 | | | 1 | 3 |
| Plant Evolutions | Tier Totals | 8 | 7 | 7 | | | | 7 | 7 | | | 7 | 43 |
| | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 19 |
| 2. Plant | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 17 |
| Systems | 3 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 4 |
| | Tier Totals | 2 | 3 | 5 | 3 | 5 | 3 | 3 | 5 | 3 | 3 | 5 | 40 |
| 3. Gener | ic Know | ledge A | nd Abilit | ies | Ca | ıt 1 | Ca | it 2 | Ca | ıt 3 | C | Cat 4 | |
| | | | | | 4 | 4 | | 4 | | 4 | | 5 | 17 |
| Note: 1. Er | nsure that | at least to | wo topics | from eve | ry K/A ca | ategory ar | e sample | d within e | ach teir (| i.e., the "' | Tier Tot | als" in ea | ich |

K/A category shall not be less than two).

- 2. Actual point totals must match those specified in the table.
- 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 priorites. Enter the tier totals for each category in the table above.

| ES - 401 | Emer | gency | Evolutions - Tier 1 / Group 1 | Form | ES-401-3 | | | | | |
|----------|---|-------|-------------------------------|------|----------|----|---|--|------|--------|
| E/APE # | E/APE Name / Safety Function | K1 | К2 | КЗ | A1 | A2 | G | КА Торіс | Imp. | Points |
| 001 | Continuous Rod Withdrawal / 1 | | | x | | | | AK3.01 - Manually driving rods into position that existed before start of casualty | 3.6 | 1 |
| 005 | Inoperable/Stuck Control Rod / 1 | | | | | | X | 2.1.33 - Ability to recognize indications for system operating parameters which are entry-level conditions for technical specifications. | 4.0 | 1 |
| 011 | Large Break LOCA / 3 | | | | | | X | 2.2.22 - Knowledge of limiting conditions for operations and safety limits. | 4.1 | 1 |
| 015 | Reactor Coolant Pump (RCP) Malfunctions / 4 | | | x | | | | AK3.02 - CCW lineup and flow paths to RCP oil coolers | 3.1 | 1 |
| 017 | Reactor Coolant Pump (RCP) Malfunctions (Loss of RC Flow) / 4 | | X | | | | | AK2.07 - RCP seals | 2.9 | 1 |
| 024 | Emergency Boration / 1 | | | | | x | | AA2.04 - Availability of BWST | 4.2 | 1 |
| 026 | Loss of Component Cooling Water (CCW) / 8 | | | | | | X | 2.4.31 - Knowledge of annunciators alarms and indications, and use of the response instructions. | 3.4 | 1 |
| 029 | Anticipated Transient Without Scram (ATWS) / 1 | | | | Х | | | EA1.03 - Charging pump suction valves from VCT operating switch | 3.2 | 1 |
| 040 | Steam Line Rupture / 4 | X | | | | | | AK1.05 - Reactivity effects of cooldown | 4.4 | 1 |

| ES - 401 | Emer | gency | Evolutions - Tier 1 / Group 1 | Form | ES-401-3 | | | | | |
|----------|--|-------|-------------------------------|------|----------|----|---|---|------|--------|
| E/APE # | E/APE Name / Safety Function | кı | К2 | К3 | A1 | A2 | G | КА Торіс | Imp. | Points |
| 051 | Loss of Condenser Vacuum / 4 | | | x | | | | AK3.01 - Loss of steam dump capability upon loss of condenser vacuum | 3.1* | 1 |
| 055 | Loss of Offsite and Onsite Power (Station Blackout) / 6 | | | x | | | | EK3.02 - Actions contained in EOP for loss of offsite and onsite power | 4.6 | 1 |
| 057 | Loss of Vital AC Electrical Instrument Bus / 6 | | | | | | X | 2.1.32 - Ability to explain and apply all system limits and precautions. | 3.8 | 1 |
| 059 | Accidental Liquid Radwaste Release / 9 | | x | | | | | AK2.01 - Radioactive-liquid monitors | 2.8 | 1 |
| 062 | Loss of Nuclear Service Water / 4 | | | | x | | | AA1.07 - Flow rates to the components and systems that are serviced by the SWS; interactions among the components | 3.0 | 1 |
| 067 | Plant Fire on Site / 9 | | | | | x | | AA2.09 - That a failed fire alarm detector exists - | 2.7 | 1 |
| 068 | Control Room Evacuation / 8 | | | | X | | | AA1.08 - Local boric acid flow | 4.2* | 1 |
| 074 | Inadequate Core Cooling / 4 | | x | | | | | EK2.09 - Controllers and positioners | 2.6* | 1 |
| 076 | High Reactor Coolant Activity / 9 | x | | - | | | | AK1.06 - Chemical shock and crud burst | 2.6 | 1 |

Facility: Salem

| ES - 401 | ······································ | Emergency | Evolutions - Tier 1 / Group 1 | Form | ES-401-3 | | | | | |
|----------|--|-----------|-------------------------------|------|----------|----|---|---|------|--------|
| E/APE # | E/APE Name / Safety Function | . К1 | К2 | КЗ | A1 | A2 | G | КА Торіс | Imp. | Points |
| E02 | SI Termination / 3 | X | | | | | | EK1.2 - Normal, abnormal and emergency operating procedures associated with SI Termination | 3.9 | 1 |
| E04 | LOCA Outside Containment / 3 | | | | | X | | EA2.1 - Facility conditions and selection of appropriate procedures during abnormal and emergency operations | 4.3 | 1 |
| E06 | Degraded Core Cooling / 4 | | | | | x | | EA2.1 - Facility conditions and selection of appropriate procedures during abnormal and emergency operations | 4.2 | 1 |
| E07 | Saturated Core Cooling / 4 | | | | X | | | EA1.3 - Desired operating results during abnormal and emergency situations | 3.9 | 1 |
| E09 | Natural Circulation Operations / 4 | | X | | | | | EK2.2 - Facility's heat removal systems, including primary coolant, emergency coolant, the decay heat removal systems, and relations between the proper operation of these systems to the operation of the facility | 3.9 | 1 |
| Ě14 | High Containment Pressure / 5 | X | | | | | | EK1.2 - Normal, abnormal and emergency operating procedures associated with High Containment Pressure | 3.7 | 1 |

K/A Category Totals: 4 4 4 4 4 4

| Facility: | Salem |
|-----------|-------|
|-----------|-------|

| ES - 401 | Emer | Emergency and Abnormal Plant Evolutions - Tier 1 / Group 2 | | | | | | | | | | | | | |
|----------|---|--|----|----|----|----|---|--|------|--------|--|--|--|--|--|
| E/APE # | E/APE Name / Safety Function | К1 | K2 | К3 | A1 | A2 | G | КА Торіс | Imp. | Points | | | | | |
| 008 | Pressurizer (PZR) Vapor Space Accident (Relief Valve Stuck Open) / 3 | | X | | | | | AK2.02 - Sensors and detectors | 2.7 | 1 | | | | | |
| 009 | Small Break LOCA / 3 | | x | | | | | EK2.03 - S/Gs | 3.3* | 1 | | | | | |
| 022 | Loss of Reactor Coolant Makeup / 2 | | | | | | x | 2.1.33 - Ability to recognize indications for system operating parameters which are entry-level conditions for technical specifications. | 4.0 | 1 | | | | | |
| 025 | Loss of Residual Heat Removal System (RHRS) / 4 | | | | | x | | AA2.04 - Location and isolability of leaks | 3.6 | 1 | | | | | |
| 037 | Steam Generator (S/G) Tube Leak / 3 | | | | | | x | 2.1.32 - Ability to explain and apply all system limits and precautions. | 3.8 | 1 | | | | | |
| 037 | Steam Generator (S/G) Tube Leak / 3 | | | x | | | | AK3.10 - Automatic actions associated with high radioactivity in S/G sample lines | 3.7* | 1 | | | | | |
| 038 | Steam Generator Tube Rupture (SGTR) / 3 | | | x | | | | EK3.01 - Equalizing pressure on primary and secondary sides of ruptured S/G | 4.3 | 1 | | | | | |
| 054 | Loss of Main Feedwater (MFW) / 4 | | | x | | | | AK3.03 - Manual control of AFW flow control valves | 4.1 | 1 | | | | | |
| 058 | Loss of DC Power / 6 | | | | | x | | AA2.03 - DC loads lost; impact on to operate and monitor plant systems | 3.9 | 1 | | | | | |

Facility: Salem

ES - 401

Emergency and Abnormal Plant Evolutions - Tier 1 / Group 2

Form ES-401-3

| | | Ī | | | | | | | Τ_ | |
|---------|--|----|----|----|----|----|---|--|------|--------|
| E/APE # | E/APE Name / Safety Function | K1 | K2 | K3 | A1 | A2 | G | КА Торіс | Imp. | Points |
| 060 | Accidental Gaseous Radwaste Release / 9 | X | | | | | | AK1.02 - Biological effects on humans of the various types of radiation, exposure levels that are acceptable for personnel in a nuclear reactor power plant; the units used for radiation intensity measurements and for radiation exposure levels | 3.1* | 1 |
| 061 | Area Radiation Monitoring (ARM) System Alarms / 7 | x | | | | | | AK1.01 - Detector limitations | 2.9? | 1 |
| 065 | Loss of Instrument Air / 8 | | | | x | | | AA1.02 - Components served by instrument air to minimize drain on system | 2.8 | 1 |
| E03 | LOCA Cooldown and Depressurization / 4 | | | | x | | | EA1.3 - Desired operating results during abnormal and emergency situations | 4.1 | 1 |
| E05 | Loss of Secondary Heat Sink / 4 | | | | x | | | EA1.1 - Components, and functions of control and safety systems, including instrumentation, signals, interlocks, failure modes, and automatic and manual features | 4.0 | 1 |
| Ell | Loss of Emergency Coolant Recirculation / 4 | | X | | | | | EK2.1 - Components, and functions of control and safety systems, including instrumentation, signals, interlocks, failure modes, and automatic and manual features | 3.9 | 1 |
| E16 | High Containment Radiation / 9 | X | | | | | | EK1.2 - Normal, abnormal and emergency operating procedures associated with High Containment Radiation | 3.2 | 1 |

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

3

1

| ES - 401 | Eme | rgency | and | Abn | orm | al Pla | ant | Evolutions - Tier 1 / Group 3 | Form | ES-401-3 |
|----------|---|--------|-----|-----|-----|--------|-----|--|------|----------|
| E/APE # | E/APE Name / Safety Function | K1 | K2 | КЗ | A1 | A2 | G | КА Торіс | Imp. | Points |
| 028 | Pressurizer (PZR) Level Control Malfunction / 2 | X | | | | | | AK1.01 - PZR reference leak abnormalities | 3.1* | 1 |
| 036 | Fuel Handling Incidents / 8 | | | | | X | | AA2.03 - Magnitude of potential radioactive release | 4.2* | 1 |
| 056 | Loss of Offsite Power / 6 | | | | | | X | 2.4.6 - Knowledge symptom based EOP mitigation strategies. | 4.0 | 1 |

K/A Category Totals:10011Group Point Total:

Facility: Salem

| ES - 401 | | | | | | | P | lant | Syste | ems – | Tier | 2/ | Group 1 | Form] | ES-401-3 |
|----------|--|----|----|----|----|----|----|------|-------|-------|------|----|--|--------|----------|
| Sys/Ev # | System / Evolution Name | K1 | К2 | КЗ | K4 | K5 | K6 | A1 | A2 | A3 | A4 | G | КА Торіс | Imp. | Points |
| 001 | Control Rod Drive System / 1 | | X | | | | | | | | | | K2.05 - M/G sets | 3.5 | 1 |
| 003 | Reactor Coolant Pump System (RCPS) / 4 | | | | | | | | | X | | | A3.01 - Seal injection flow | 3.2 | 1 |
| 004 | Chemical and Volume Control System (CVCS) / 1 | | | | | | | | | X | | | A3.10 - PZR level and pressure | 3.9 | 1 |
| 004 | Chemical and Volume Control System (CVCS) / 1 | | | | | | | | | | x | | A4.15 - Boron concentration | 3.7 | 1 |
| 013 | Engineered Safety Features Actuation System (ESFAS) / 2 | | | | | | | X | | | | | A1.08 - Containment sump level | 3.8 | 1 |
| 014 | Rod Position Indication System (RPIS) / 1 | | | | | X | | | | | | | K5.02 - RPIS independent of demand position | 3.3 | 1 |
| 015 | Nuclear Instrumentation System / 7 | | | | | | | | | | | x | 2.4.6 - Knowledge symptom based EOP mitigation strategies. | 4.0 | 1 |
| 015 | Nuclear Instrumentation System / 7 | | | | | | X | | | | | | K6.04 - Bistables and logic circuits | 3.2 | 1 |
| 026 | Containment Spray System (CSS) / 5 | | | x | | | | | | | | | K3.01 - CCS | 4.1 | 1 |
| 056 | Condensate System / 4 | | | | | | | | X | | | | A2.04 - Loss of condensate pumps | 2.8* | 1 |

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Facility: Salem

| ES - 401 | | | | | | | F | Plant | Syst | ems - | Tie | : 2 / | Group 1 | Form] | ES-401-3 |
|----------|---|----|----|----|----|----|----|-------|------|-------|-----|-------|--|--------|----------|
| Sys/Ev # | System / Evolution Name | K1 | К2 | КЗ | K4 | К5 | K6 | A1 | A2 | A3 | A4 | G | КА Торіс | Imp. | Points |
| 059 | Main Feedwater (MFW) System / 4 | | | | | | | | 2 | | | x | 2.4.4 - Ability to recognize abnormal indications for system operating parameters which are entry-level conditions for emergency and abnormal operating procedures. | 4.3 | 1 |
| 061 | Auxiliary / Emergency Feedwater (AFW) System / 4 | | x | | | | | | | | | | K2.02 - AFW electric driven pumps | 3.7 | 1 |
| 061 | Auxiliary / Emergency Feedwater (AFW) System / 4 | | | | | x | | | | | | | K5.02 - Decay heat sources and magnitude | 3.6 | 1 |
| 063 | D.C. Electrical Distribution System / 6 | | | | x | | | | | | | | K4.01 - Manual/automatic transfers of control | 3.0* | 1 |
| 068 | Liquid Radwaste System (LRS) / 9 | x | | | | | | | | | | | K1.07 - Sources of liquid wastes for LRS | 2.9 | 1 |
| 068 | Liquid Radwaste System (LRS) / 9 | | | | | | | | X | | | | A2.02 - Lack of tank recirculation prior to release | 2.8* | 1 |
| 071 | Waste Gas Disposal System (WGDS) / 9 | | | | x | | | | | | | | K4.05 - Point of release | 3.0 | 1 |
| 071 | Waste Gas Disposal System (WGDS) / 9 | | | | | | | X | | | | | A1.06 - Ventilation system | 2.8 | 1 |
| 072 | Area Radiation Monitoring (ARM) System / 7 | | | X | | | | | | | | | K3.02 - Fuel handling operations | 3.5 | 1 |

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

Facility: Salem

| ES - 401 | | | | | | | F | lant | Syste | ems - | Tier | 2/ | Group 2 | Form] | ES-401-3 |
|----------|--|----|----|----|----|----|------|------|-------|-------|------|----|--|--------|----------|
| Sys/Ev # | System / Evolution Name | K1 | К2 | КЗ | K4 | К5 | K6 | A1 | A2 | A3 | A4 | G | КА Торіс | Imp. | Points |
| 002 | Reactor Coolant System (RCS) / 2 | | | x | | | | | | | | | K3.03 - Containment | 4.6 | 1 |
| 002 | Reactor Coolant System (RCS) / 2 | | | | | X | | | | | | | K5.13 - Causes of circulation | 3.9 | 1 |
| 006 | Emergency Core Cooling System (ECCS) / 2 | | | | | X | | | | | | | K5.02 - Relationship between accumulator volume and pressure | 2.9 | 1 |
| 010 | Pressurizer Pressure Control System (PZR PCS) / 3 | | | | | | | | | | | X | 2.2.25 - Knowledge of bases in technical specifications for limiting conditions for operations and safety limits. | 3.7 | 1 |
| 011 | Pressurizer Level Control System (PZR LCS)/2 | | | | | | x | | | | | | K6.03 - Relationship between PZR level and PZR heater control circuit | 3.3 | 1 |
| 011 | Pressurizer Level Control System (PZR LCS) / 2 | | | | | | | | x | | | | A2.08 - Loss of level compensation | 2.8 | 1. |
| 012 | Reactor Protection System / 7 | | x | | | | | | | | | | K2.01 - RPS channels, components, and interconnections | 3.7 | 1 |
| 016 | Non-Nuclear Instrumentation System (NNIS) / 7 | x | | | | | | | | | | | K1.07 - ECCS | 3.7* | 1 |
| 028 | Hydrogen Recombiner and Purge Control System (HRPS) / 5 | | | | | | | | | | X | | A4.03 - Location and operation of hydrogen sampling and analysis of containment atmosphere, including alarms and indications | 3.3 | 1 |
| 029 | Containment Purge System (CPS) / 8 | | | | | | | | | | X | | A4.04 - Containment evacuation signal | 3.6 | 1 |

Facility: Salem

| ES - 401 | | | | | | | F | <u>Plant</u> | Syste | ems - | - Tier | r 2 / | Group 2 | Form | ES-401-3 |
|----------|---|----|----|----|----|----|----|--------------|-------|-------|--------|-------|---|------|----------|
| Sys/Ev # | System / Evolution Name | К1 | К2 | КЗ | K4 | К5 | K6 | A1 | A2 | A3 | A4 | G | КА Торіс | Imp. | Points |
| 033 | Spent Fuel Pool Cooling System (SFPCS) / 8 | | | | | | | x | | | | | A1.01 - Spent fuel pool water level | 3.3 | 1 |
| 034 | Fuel Handling Equipment System (FHES) / 8 | | | | | | | | x | | | | A2.01 - Dropped fuel element | 4.4 | 1 |
| 035 | Steam Generator System (S/GS) / 4 | | | X | | | | | | | | | K3.02 - ECCS | 4.3 | 1 |
| 064 | Emergency Diesel Generator (ED/G) System / 6 | | | | | | | | | | | X | 2.2.22 - Knowledge of limiting conditions for operations and safety limits. | 4.1 | 1 |
| 064 | Emergency Diesel Generator (ED/G) System / 6 | | | | | | | | | x | | | A3.04 - Number of starts available with an air compressor | 3.5 | 1 |
| 086 | Fire Protection System (FPS) / 8 | | | | | | X | | | | | | K6.04 - Fire, smoke, and heat detectors | 2.9 | 1 |
| 103 | Containment System / 5 | | | | X | | | | | | | | K4.04 - Personnel access hatch and emergency access hatch | 3.2 | 1 |

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

Facility: Salem

| ES - 401 | | Plant Systems - Tier 2 / Group 3 | | | | | | | | | | Form ES-401-3 | | | |
|----------|---|----------------------------------|----|----|----|----|----|----|----|----|----|---------------|---|--------|--------|
| Sys/Ev # | System / Evolution Name | К1 | K2 | КЗ | K4 | К5 | K6 | A1 | A2 | A3 | A4 | G | КА Торіс | Imp. | Points |
| 005 | Residual Heat Removal System (RHRS) / 4 | | | x | | | | | | | | | K3.06 - CSS | 3.2* | 1 |
| 008 | Component Cooling Water System (CCWS) / 8 | | | | | | | | | | | X | 2.2.22 - Knowledge of limiting conditions for operations and safety limits. | 4.1 | 1 |
| 041 | Steam Dump System (SDS) and Turbine Bypass Control / 4 | | | | | x | | | | | | | K5.07 - Reactivity feedback effects | 3.6 | 1 |
| 045 | Main Turbine Generator (MT/G) System / 4 | | | | | | | | X | | | | A2.17 - Malfunction of electrohydraulic control | 1 2.9* | 1 |

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

Group Point Total: 4

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1

Generic Knowledge and Abilities Outline (Tier 3)

Printed: 01/09/2003

PWR SRO Examination Outline

Facility: Salem

Form ES-401-5

| Generic Category | KA | KA Topic | Imp. | Points |
|-----------------------|--------|--|------|--------|
| Conduct of Operations | 2.1.10 | Knowledge of conditions and limitations in the facility license. | 3.9 | 1 |
| | 2.1.18 | Ability to make accurate, clear and concise logs, records, status boards, and reports. | 3.0 | 1 |
| | 2.1.19 | Ability to use plant computer to obtain and evaluate parametric information on system or component status. | 3.0 | 1 |
| | 2.1.20 | Ability to execute procedure steps. | 4.2 | 1 |

Category Total: 4

| Equipment Control | 2.2.1 | Ability to perform pre-startup procedures for the facility, including operating those controls associated with plant equipment that could affect reactivity. | 3.6 | 1 |
|-------------------|--------|--|-----|---|
| | 2.2.6 | Knowledge of the process for making changes in procedures as described in the safety analysis report. | | 1 |
| | 2.2.21 | Knowledge of pre- and post-maintenance operability requirements. | 3.5 | 1 |
| | 2.2.25 | Knowledge of bases in technical specifications for limiting conditions for operations and safety limits. | 3.7 | 1 |

Category Total: 4

| Radiation Control | 2.3.1 | Knowledge of 10 CFR: 20 and related facility radiation control requirements. | | 1 |
|-------------------|-------|--|-----|---|
| | 2.3.2 | Knowledge of facility ALARA program. | 2.9 | 1 |
| | 2.3.3 | Knowledge of SRO responsibilities for auxiliary systems that are outside the control room (e.g., waste disposal and handling systems). | 2.9 | 1 |
| | 2.3.8 | Knowledge of the process for performing a planned gaseous radioactive release. | 3.2 | 1 |

Category Total: 4

Generic Knowledge and Abilities Outline (Tier 3)

Printed: 01/09/2003

PWR SRO Examination Outline

Facility: Salem

Form ES-401-5

| Generic Category | KA | KA Topic | Imp. | Points |
|---------------------------|--------|---|----------|--------|
| Emergency Procedures/Plan | 2.4.8 | Knowledge of how the event-based emergency/abnormal operating procedures are used in conjunction with the symptom-based EOPs. | 3.7 | 1 |
| | 2.4.12 | Knowledge of general operating crew responsibilities during emergency operations. | 3.9 | 1 |
| | 2.4.25 | Knowledge of fire protection procedures. | 3.4 | 1 |
| | 2.4.27 | Knowledge of fire in the plant procedure. | 3.5 | 1 |
| | 2.4.28 | Knowledge of procedures relating to emergency response to sabotage. | 3.3 | 1 |
| | I, | Catego | ory Tota | 1: 5 |

Generic Total: 17

ES-401

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| Tier/Group | Randomly Selected K/A | Reason for Rejection |
|------------|-----------------------|---|
| 1/1 | 003 AK 1.20 | Several K/A's related to control rods and rod control. Increase breadth of examination |
| | | coverage by manually selecting 040 AK 1.05 (unselected topic, same K/A category). |
| | | |
| 1/1 | 015 G2.4.49 | Several K/A's related to RCP's and Loss of RC Flow. Also, no immediate actions for this topic |
| | | Increase breadth of examination coverage by manually selecting 026 G 2.4.31 (unselected topic, |
| | | same K/A category). |
| | | O DE |
| 1/1 | 017 AK 1.04 | Several K/A's related to RCP's and Loss of RC Flow. Increase breadth of examination |
| | | coverage by manually selecting 076 AK 1.06 (unselected topic, same K/A category). |
| | 024 412 201 | Soveral K/A's related to Emergency Paration Also this K/A relates to control rods and rod control |
| | 024 AN 3.01 | Jerenase breadth of examination coverage by manually selecting 026 G 2.4.31 (unselected topic |
| | | same K/A category) |
| ļ <u></u> | <u> </u> | |
| 1/2 | 008 AA 1 01 | Several K/A's related to PZR vapor space accident. Increase breadth of examination |
| | | coverage by manually selecting F03 FA 1.3 (unselected topic, same K/A category). |
| | | |
| 1/2 | 038 EA 1.33 | Several K/A's related to SGTR and Tube leak. Also this K/A relates to Natural Circulation. |
| | | Increase breadth of examination coverage by manually selecting E05 EA 1.1 (unselected topic, |
| | | same K/A category). |
| | | |
| 173 | 056 AK1.04 | Several K/A's related to Loss of Offsite Power. Increase breadth of examination |
| | | coverage by manually selecting 028 AK 1.01 (unselected topic, same K/A category). |
| | | |
| 2/1 | 001 K 3.02 | Several K/A's related to control rods and rod control. Increase breadth of examination |
| | | coverage by manually selecting 072 K 3.02 (unselected topic, same K/A category). |
| | | |
| 2/1 | 014 K 3.02 | Several K/A's related to RPIS. Increase breadth of examination |
| | | coverage by manually selecting U26 K 3.01 (Unselected topic, same K/A category). |
| | 050 0 2 4 20 | K/A selected has no relevance to system. Manually selected G.2.4.4 (same K/A estadory for system) |
| 2/1 | 059 G 2.4.30 | NA selected has no relevance to system. Manually selected G 2.4.4 (same NA category for system) |
| 2/2 | 005 8 5 03 | Several K/A's related to RHR Increase breadth of examination coverage by manually |
| | 000 K 0.00 | selecting 0/1 K 5 07 (unselected tonic same K/A category) |
| | 1 | selecting 041 N 3.07 (unselected topic, same NA category). |