



Donald C. Shelton
Vice President - Nuclear
Davis-Besse

300 Madison Avenue
Toledo, OH 43652-0001
(419) 249-2300

Docket Number 50-346

License Number NPF-3

Serial Number 1-1006

March 24, 1993

Mr. Mark A. Ring, Chief
Operations Branch
United States Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

Subject: Operator and Senior Operator Licensing Examinations Reference
Material for May 1993 Exam

Dear Mr. Ring:

As requested by the NRC in a letter dated January 20, 1993 (Log Number 1-2789), copies of the requested reference materials were submitted to Mr. J. R. Walker of Region III, and Mr. L. Sherfey of Battelle Pacific Northwest Labs, on March 12, 1993. This reference material concerns Operator and Senior Operator Licensing Examinations scheduled for the week of May 24, 1993, for the Davis-Besse Nuclear Power Station, Unit Number 1.

Attached is the listing of the materials that were submitted to the individuals above. Should you have any questions, please call Mr. R. W. Schrauder, Manager - Nuclear Licensing, at (419) 249-2366.

Sincerely yours,

GAB/dlc

Attachment

cc: A. B. Davis, Regional Administrator, NRC Region III w/o
J. B. Hopkins, NRC/NRR DB-1 Senior Project Manager w/o
S. Stasek, NRC Region III, DB-1 Senior Resident Inspector w/o
Utility Radiological Safety Board w/o
✓USNRC Document Control Desk

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Operating Companies:
Cleveland Electric Illuminating
Toledo Edison

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PDR ADOCK 05000346
V PDR

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Docket Number 50-346
License Number NPF-3
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Attachment

DAVIS-BESSE
OPERATOR AND SENIOR OPERATOR
LICENSING EXAMINATION REFERENCE MATERIAL
FOR
MAY 1993 EXAMINATION

MARCH 1993

Docket Number 50-346
License Number NPF-3
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Attachment

Listing of
Drawings

| <u>NUMBER</u> | <u>DOCUMENT NAME</u> | <u>BOOK NUMBER</u> |
|-----------------------------------|--|------------------------|
| <u>ABNORMAL PROCEDURES MANUAL</u> | | |
| DB-OP-02500 | Turbine Trip | 1 |
| DB-OP-02501 | Serious Station Fire | |
| DB-OP-02504 | Rapid Shutdown | |
| DB-OP-02505 | Loss of Neutron Flux Indication | |
| DB-OP-02506 | Condensate/Feedwater High Conductivity | |
| DB-OP-02507 | Traveling Screen Blockage | |
| DB-OP-02508 | Control Room Evacuation | |
| DB-OP-02510 | Loss of Reactor Coolant System Boron | |
| DB-OP-02511 | Loss of Service Water Pumps/Systems | |
| DB-OP-02512 | Loss of RCS Makeup Pump(s) | |
| DB-OP-02513 | Pressurizer Systems Abnormal Operation | |
| DB-OP-02514 | Loss of Turbine Plant Cooling Water Pump(s) | |
| DB-OP-02515 | Reactor Coolant Pump and Motor Abnormal Operation | |
| DB-OP-02516 | Control Rod Drive Malfunctions | |
| DB-OP-02517 | Circulating Water Pump Trip/Circulating Water System Ruptures | |
| DB-OP-02518 | High Condenser Pressure | |
| DB-OP-02519 | Serious Control Room Fire | |
| DB-OP-02520 | Load Rejection | |
| DB-OP-02521 | Loss of AC Bus Power Sources | |
| DB-OP-02522 | Small RCS Leaks | |
| DB-OP-02523 | Component Cooling Water System Malfunctions | |
| DB-OP-02525 | Steam Leaks | |

| <u>NUMBER</u> | <u>DOCUMENT NAME</u> | <u>BOOK NUMBER</u> |
|---------------|---|------------------------|
| DB-OP-02526 | Steam Generator Overfill | 1 |
| DB-OP-02527 | Loss of Decay Heat Removal System | |
| DB-OP-02528 | Loss of Instrument Air | |
| DB-OP-02529 | Fire Procedure | |
| DB-OP-02530 | Fuel Handling Accident | |
| DB-OP-02531 | Steam Generator Tube Leak | |
| DB-OP-02532 | Loss of NNI/ICS Power | |
| DB-OP-02533 | Control Room Emergency Ventilation Load Shedding | |
| DB-OP-02535 | High Activity in the Reactor Coolant System | |
| DB-OP-02537 | Loss of D1P and DAP | |
| DB-OP-02538 | Loss of D2P and DBP | |
| DB-OP-02539 | Loss of D1N and DAN | |
| DB-OP-02540 | Loss of D2N and DBN | |

ADMINISTRATIVE PROCEDURES

| | | |
|-------------|---|---|
| DB-CH-00004 | Radioactive Liquid Release | 2 |
| DB-CH-00006 | Radioactive Gaseous Release | |
| DB-DP-00013 | Surveillance and Periodic Test Program | |
| AD 1850.00 | Radwaste Management | |
| DB-OP-00000 | Conduct of Operations | |
| DB-OP-00002 | Operations Department Event/Incident Notifications and Actions | |
| DB-OP-00003 | Operations Department Monthly Activity Log | |
| DB-OP-00004 | Operator Aids Control | |
| DB-OP-00005 | Operating Logs and Reading Sheets | |

| <u>NUMBER</u> | <u>DOCUMENT NAME</u> | <u>BOOK NUMBER</u> |
|---------------|--|------------------------|
| DB-OP-00006 | Night Order/Standing Order Log | 2 |
| DB-OP-00008 | Operation and Control of Locked Valves | |
| DB-OP-00009 | Operation and Control of Capped Valves | |
| DB-OP-00010 | Operational Information Tags | |
| DB-OP-00015 | Safety Tagging Procedure | |
| DB-OP-00016 | Removal and Restoration of Station Equipment | |
| DB-OP-00018 | Inoperable Equipment Tracking Log | |
| DB-OP-00020 | Temporary Modifications | |
| DB-OP-00100 | Shift Turnover | |
| DB-OP-00200 | Shift Technical Advisor | |
| DB-PN-00007 | Control of Work (MWO) | |
| IS-DP-00506 | Lock and Key Procedure | |
| NG-HS-00507 | Confined Space Entry Program | |
| NG-PS-00115 | Control of Procedures | |
| NG-QA-00702 | Potential Conditions Adverse to Quality Reporting | |

ALARM PROCEDURES

| | | |
|-------------|--|---|
| DB-OP-02001 | Electrical Distribution Alarm Panel 1 | 3 |
| DB-OP-02002 | Letdown/Makeup Alarm Panel 2 Annunciators | |
| DB-OP-02003 | ECCS Alarm Panel 3 Annunciators | |
| DB-OP-02004 | Reactor Coolant Alarm Panel 4 Annunciators | |
| DB-OP-02005 | Primary Instruments Alarm Panel 5 Annunciators | |
| DB-OP-02006 | Reactor Coolant Pump Alarm Panel 6 Annunciators | |

| <u>NUMBER</u> | <u>DOCUMENT NAME</u> | <u>BOOK NUMBER</u> |
|---------------|--|------------------------|
| DB-OP-02007 | Radwaste Alarm Panel 7 Annunciators | 3 |
| DB-OP-02008 | Trips Alarm Panel 8 Annunciators | |
| DB-OP-02009 | Plant Services Alarm Panel 9 Annunciators | |
| DB-OP-02010 | Feedwater Alarm Panel 10 Annunciators | |
| DB-OP-02011 | Heat Sink Alarm Panel 11 Annunciators | |
| DB-OP-02012 | Steam Generator/SFRCS Alarm Panel 12 Annunciators | |
| DB-OP-02013 | Condensate Feedwater Alarm Panel 13 Annunciators | |
| DB-OP-02014 | MSR/ICS Alarm Panel 14 Annunciators | |
| DB-OP-02015 | Turbine Alarm Panel 15 Annunciators | |
| DB-OP-02016 | Generator Alarm Panel 16 Annunciators | |

EMERGENCY PLAN

4

This volume contains its own index. Refer to this volume for Table of Contents.

EMERGENCY PLAN, PUBLIC INFO., EMERG. RESPONSE IMPLEMENT. PROCEDURE

4

This volume contains its own index. Refer to this volume for Table of Contents.

EMERGENCY PLAN ADMINISTRATIVE PROCEDURES, VOLUME A

4

This volume contains its own index. Refer to this volume for Table of Contents.

EMERGENCY PLAN ADMINISTRATIVE PROCEDURES, VOLUME B

4

This volume contains its own index. Refer to this volume for Table of Contents.

| <u>NUMBER</u> | <u>DOCUMENT NAME</u> | <u>BOOK NUMBER</u> |
|---------------|--|------------------------|
| | <u>EMERGENCY PLAN IMPLEMENTING PROCEDURES, VOLUME A</u> | 5 |
| | This volume contains its own index. Refer to this volume for Table of Contents. | |
| | <u>EMERGENCY PLAN IMPLEMENTING PROCEDURES, VOLUME B</u> | 5 |
| | This volume contains its own index. Refer to this volume for Table of Contents. | |
| | <u>EMERGENCY PLAN IMPLEMENTING PROCEDURES, VOLUME C</u> | 5 |
| | This volume contains its own index. Refer to this volume for Table of Contents. | |
| | <u>EMERGENCY PLAN - OFF NORMAL OCCURRENCE</u> | 5 |
| | This volume contains its own index. Refer to this volume for Table of Contents. | |
| | <u>EMERGENCY PROCEDURE</u> | 6 |
| DB-OP-02000 | Emergency Procedure (RPS, SFAS, SFRCS Trip, or SG Tube Rupture) | |
| | <u>FUEL HANDLING PROCEDURES</u> | 7 |
| DB-PF-03292 | Core Alteration Prerequisites and Periodic Checks | |
| DB-NE-06101 | Fuel/Control Component Shuffle | |
| DB-NE-06300 | Fuel Loading and Refueling Limits and Precautions | |
| | <u>GENERAL ORIENTATION AND RADIOLOGICAL CONTROLS TRAINING INFORMATION HANDBOOK</u> | 8 |
| | <u>HEALTH PHYSICS PROCEDURES</u> | 7 |
| DB-HP-01100 | Radiation, Contamination, and Airborne Radioactivity Areas | |

| <u>NUMBER</u> | <u>DOCUMENT NAME</u> | <u>BOOK NUMBER</u> |
|---------------|--|------------------------|
| DB-HP-01101 | Containment Entry | 7 |
| DB-HP-01201 | External Dosimetry Administrative Guides and Limits | |
| DB-HP-01901 | Radiation Work Permits | |

INDUSTRIAL SAFETY GUIDELINES

9

This volume contains its own index. Refer to this volume for Table of Contents.

JOB PERFORMANCE MEASURES (JPM)

| <u>JPM No.</u> | <u>JPM Title</u> | <u>Book Number</u> |
|----------------|---|------------------------|
| 01 | Lineup and Start the Backup Service Water Pump During a Loss of All Service Water | 10 |
| 02 | Initiate Long Term Boron Dilution Flowpath | |
| 03 | Serious Control Room Fire, Primary Side Reactor Operator Actions Inside RCA | |
| 04 | Control Room Evacuation, Secondary Side Reactor Operator Actions | |
| 05 | Control Room Evacuation, Assistant Shift Supervisor Actions | |
| 06 | Control Room Evacuation, Zone 3 and 4 Equipment Operator Actions (Local Start of MU Pump) | |
| 07 | Serious Control Room Fire, Primary Side Reactor Operator Actions Step 1a - c (Outside RCA Actions) | |
| 08 | Serious Control Room Fire, Secondary Side Reactor Operator Actions | |
| 09 | Serious Control Room Fire, Shift Supervisor Actions per Attachment 1, Steps 1 and 2 | |
| 10 | Serious Control Room Fire, Assistant Shift Supervisor Actions per Attachment 1, Steps 1 and 2 (Protect the EDG) | |

| <u>JPM No.</u> | <u>JPM Title</u> | <u>Book Number</u> |
|----------------|---|------------------------|
| 11 | Serious Control Room Fire, Assistant Shift Supervisor Actions per Attachment 2 After EDG 1 is Protected (AFW OPs) | 10 |
| 13 | Replacing the Service Water Pump Supplying Primary Loads with Service Water Pump 1-3 | |
| 14 | Loss of Service Water Loop 1 to Primary Loads | |
| 15 | Loss of Makeup Pumps | |
| 16 | Operate the EVS During a Fuel Handling Accident in the Fuel Handling Area | |
| 17 | Recover from Letdown Isolation | |
| 18 | Component Cooling Water Pump Rotation (from CCW Pump 2 in Standby and CCW Pump 1 Running to CCW Pump 2 Running and CCW Pump 1 in Standby) | |
| 19 | Classify an Event and Perform Notifications (SRO) | |
| 20 | Perform Actions During Low Component Cooling Water Surge Tank Level | |
| 21 | Bypass Variable Trips During Plant Shutdown and Cooldown Using the Shutdown Bypass Switch | |
| 22 | Startup of the Containment Air Cooler 3 Aligned as Containment Air Cooler 1 | |
| 23 | Loss of Both Station Annunciator Power Supplies | |
| 24 | Operation of AV's After an SFRCS | |
| 25 | Dropped Rod | |
| 26 | MDFP Supplying AFW System | |
| 27 | Use Circ Water to Supply Service Water Primary Loads | |
| 29 | Piggyback Operation | |
| 30 | HPI Operation | |
| 31 | Fire Protection Impairment and Fire Watch | |

| <u>JPM No.</u> | <u>JPM Title</u> | <u>Book Number</u> |
|----------------|---|------------------------|
| 32 | Identify and Resolve Steam Binding in AFPT #2 | 10 |
| 33 | Perform Post Accident Recirc | |
| 34 | Exercising AFPT 2 Trip Throttle Valve (TTV) | |
| 35 | AFPT 2 Manual Control at the Trip Throttle Valve (TTV) | |
| 36 | Simulate Battery Load Shed | |
| 37 | Loss of Both Component Cooling Water Pumps | |
| 38 | Balance HPI Flow with 1 Pump Failed | |
| 39 | Energize D2 Bus from C1 Bus and Start MDFP While Keeping EDG1 Within Limits | |
| 40 | Perform Attachment 4 of OTSG Tube Leak Procedure | |
| 41 | Control Room EVS Load Shedding | |
| 42 | Trip the Reactor from No. 2 Low Voltage Switchgear | |
| 43 | Manual Operations of the Diesel Generator from DG Room 1 Relay and Control Panel C3615 | |
| 44 | Loss of Instrument Air Actions from the Control Room | |
| 45 | Loss of Instrument Air Actions, In Plant | |
| 46 | Perform Actions During Low Component Cooling Water Surge Tank Level | |
| 47 | Manually Trip an RPS Channel | |
| 48 | Energizing the NNI-X Cabinets | |
| 49 | Loss of NNI "Y" DC Power | |
| 50 | Transfer Essential Panels Y2/Y2A from Normal to Alternate Power Supplies | |
| 51 | Energize SFRCS | |
| 52 | Operate the Control Room EVS in Abnormal Mode | |

| <u>JPM No.</u> | <u>JPM Title</u> | <u>Book Number</u> |
|----------------|---|------------------------|
| 53 | Remove SASS Instrument String for Maintenance and Restore to Automatic Control | 10 |
| 54 | Perform Actions to Stabilize the Plant During a Loss of All AC | |
| 55 | Perform Recovery of Essential AC Buses Following a Loss of AC Bus Power | 11 |
| 56 | Start Decay Heat Removal for RCS Cooldown and Adjust Flow | |
| 57 | Borate from Outside the Control Room | |
| 58 | Calculate a Shutdown Margin | |
| 59 | Calculate Estimated Critical Boron Concentration | |
| 60 | Clearing an Asymmetry Fault | |
| 61 | Perform Actions for a Serious Station Fire, Fire Area Y | |
| 62 | Perform Decay Heat Pump Pre-Startup and Standby Check-Off List for DH Pump 1 | |
| 63 | Prepare for and Initiate MU/HPI Cooling | |
| 64 | Start the MDFP and Feed Steam Generator Upon Loss of All MFW and AFW | |
| 65 | Operate the Kaman Monitors | |
| 66 | Jumper RCP Start Interlocks During Inadequate Core Cooling | |
| 67 | Batch Add to the Makeup Tank | |
| 68 | Perform a Live Manual Transfer from the Auxiliary to Startup Transformer | |
| 69 | Swap to a Swing Battery Charger | |
| 70 | Emergency Boration | |
| 71 | Operate the Hydrogen Dilution and Purge System | |
| 72 | Perform an Offsite Dose Assessment | |

| <u>JPM No.</u> | <u>JPM Title</u> | <u>Book Number</u> |
|----------------|---|------------------------|
| 73 | Energize SFRCS | 11 |
| 74 | Restoration of Makeup Following a Loss of Makeup Pumps | |
| 75 | Exercising the AFPT Overspeed Trip Mechanism | |
| 76 | Restoration of Containment Cooling During a Serious Control Room Fire | |
| 77 | Transfer Essential Panels Y1/Y1A from Normal to Alternate Power Supplies | |
| 78 | Instrument Air Dryer Switching Failure | |
| 79 | Restore EDG 2 After Loss of Essential DC Panel D2P | |
| 80 | Perform Supplementary Actions for a Serious Control Room Fire | |
| 81 | Switching Makeup Pumps | |
| 82 | Loss of Normal RCS Makeup Flowpath | |
| 83 | Service Water Non-Seismic Line Rupture | |
| 84 | 4160 Volt Bus Manual Transfers | |
| 85 | Purge Containment in Mode 3 | |
| 86 | Perform a Batch Addition to the Makeup Tank | |
| 87 | Swap Decay Heat Pumps During Decay Heat Removal | |
| 89 | Emergency Closure of Core Flood Tank 2 Isolation Valve CF1A | |
| 90 | Add Borated Water to the RCS From the BWST | |
| 91 | Loss of Decay Heat Pump | |
| 92 | Low CCW Surge Tank Level Actions | |
| 93 | Return Decay Heat Train 1 to LPI Mode | |
| 94 | Overriding an SFRCS Hi Level Trip | |

| <u>JPM No.</u> | <u>JPM Title</u> | <u>Book Number</u> |
|----------------|--|------------------------|
| 95 | Re-establish Sampling and Letdown Capability Post LOCA | 11 |
| 96 | Restore Main Feedwater to the SGs Following an SFRCS Actuation | |
| 97 | Manually Initiate SFAS | |
| 98 | SFRCS Initiation Recovery Guideline | |
| 99 | Control Room EVS and CTRM HVAC Operation | |
| 100 | Reset SFAS Level 1 Actuation | |
| 101 | Classify an Event and Perform Notifications | |
| 102 | Classify an Event and Perform Notifications | |
| 103 | Classify an Event and Perform Notifications | |
| 104 | Classify an Event and Perform Notifications | |
| 105 | Classify an Event and Perform Notifications | |
| 106 | Perform Actions to Restore Power Following a Partial Loss of AC Power | |
| 107 | Manually Initiate SFRCS | |
| 108 | Respond to a High Component Cooling Water Surge Tank Level | |
| 109 | Perform Control Rod Exercising | |
| 110 | Place SFAS in Shutdown Bypass | |

LESSON PLANS

| <u>Lesson No.</u> | <u>Lesson Title</u> | <u>Book Number</u> |
|-------------------------------------|--|------------------------|
| <u>General Operating Procedures</u> | | |
| OLC-GOP-I101 | Turbine Trip | 13 |
| OLC-GOP-I102 | Serious Station Fire | |
| OLC-GOP-I107 | Rapid Shutdown | |
| OLC-GOP-I108 | Loss of Neutron Flux Indication | |
| OLC-GOP-I110 | Condensate/Feedwater High Conductivity | |
| OLC-GOP-I111 | Traveling Screen Blockage | |
| OLC-GOP-I112 | Control Room Evacuation | |
| OLC-GOP-I116 | Loss of Reactor Coolant System Boron | |
| OLC-GOP-I117 | Loss of Service Water Pumps/Systems | |
| OLC-GOP-I118 | Loss of RCS Makeup Pump(s) | |
| OLC-GOP-I119 | Pressurizer Systems Abnormal Operation | |
| OLC-GOP-I120 | Loss of Turbine Plant Cooling Water Pump(s) | |
| OLC-GOP-I121 | Reactor Coolant Pump and Motor Abnormal Operation | |
| OLC-GOP-I123 | Control Rod Drive Malfunctions | |
| OLC-GOP-I124 | Circulating Water Pump Trip/Circulating Water System Ruptures | |
| OLC-GOP-I125 | High Condenser Pressure | |
| OLC-GOP-I126 | Serious Control Room Fire | |
| OLC-GOP-I127 | Load Rejection | |
| OLC-GOP-I128 | Loss of AC Bus Power Sources | |
| OLC-GOP-I129 | Small RCS Leaks | |

| <u>Lesson No.</u> | <u>Lesson Title</u> | <u>Book Number</u> |
|-------------------|--|------------------------|
| OLC-GOP-I130 | High Activity in the Reactor Coolant System | 13 |
| OLC-GOP-I131 | Component Cooling Water System Malfunctions | |
| OLC-GOP-I133 | Steam Leaks | |
| OLC-GOP-I134 | Steam Generator Overfill | |
| OLC-GOP-I135 | Loss of Decay Heat Removal System | |
| OLC-GOP-I136 | Loss of Instrument Air | |
| OLC-GOP-I137 | Fire Procedure | |
| OLC-GOP-I138 | Fuel Handling Accident | |
| OLC-GOP-I140 | Steam Generator Tube Leak | |
| OLC-GOP-I141 | Loss of NNI/ICS Power | |
| OLC-GOP-I142 | Control Room Emergency Ventilation Load Shedding | |
| OLC-GOP-I143 | Loss of DC Busses | |
| OLC-GOP-I201 | Mode Checklists | |
| OLC-GOP-I202 | Operator Curve Books | |
| OLC-GOP-I203 | Plant Heatup | |
| OLC-GOP-I204 | Plant Startup | |
| OLC-GOP-I205 | Power Operations | |
| OLC-GOP-I206 | Plant Shutdown and Cooldown | |
| OLC-GOP-I207 | Trip Recovery | |
| OLC-GOP-I301 | Specific Rules | |
| OLC-GOP-I302 | Symptoms/Automatic/Immediate Actions | |
| OLC-GOP-I303 | Supplemental Actions | |
| OLC-GOP-I304 | Lack of Subcooling | |

| <u>Lesson No.</u> | <u>Lesson Title</u> | <u>Book Number</u> |
|-------------------|--|------------------------|
| OLC-GOP-I305 | Lack of Heat Transfer | 13 |
| OLC-GOP-I306 | Excessive Heat Transfer | |
| OLC-GOP-I307 | SG Tube Rupture | |
| OLC-GOP-I308 | Inadequate Core Cooling | |
| OLC-GOP-I309 | LOCA | |
| OLC-GOP-I310 | RCS SAT SG Remounting Heat | |
| OLC-GOP-I311 | MV/HPI Cooling | |
| OLC-GOP-I312 | Solid C/D or PZR Recovery | |
| OLC-GOP-I501 | Conduct of Operations | |
| OLC-GOP-I502 | Shift Turnover | |
| OLC-GOP-I503 | Safety Tagging Procedure | |
| OLC-GOP-I504 | Temporary Modifications | |
| OLC-GOP-I505 | Operation and Control of Locked Valves | |
| OLC-GOP-I506 | Operation and Control of Capped Valves | |
| OLC-GOP-I507 | Operational Information Tags | |
| OLC-GOP-I508 | Fire Protection Admin. | |
| ONL-FBT-I011 | Fire Protection Impairment and Fire Watch Procedure | |
| OLC-GOP-I510 | Fuel Handling Procedures | |
| OLC-GOP-I601 | Emergency Plan Overview | |
| OLC-GOP-I602 | Classification and Emergency Action Levels | |
| OLC-GOP-I603 | Classification Implementation | |
| OLC-GOP-I604 | Dose Assessment | |
| OLC-GOP-I605 | Emergency Plan Off-Normal Procedures | |

| <u>Lesson No.</u> | <u>Lesson Title</u> | <u>Book Number</u> |
|---|-----------------------------------|------------------------|
| <u>Pressurized Water Reactor Training</u> | | |
| OLC-PWR-I001 | Nitrogen System | 14 |
| OLC-PWR-I002 | Fuel Oil | |
| OLC-PWR-I003 | Fire Protection/Detection | |
| ONL-FBT-I013 | Fire Protection | |
| ONL-FBT-I014 | Fire Detection | |
| OLC-PWR-I004 | Gaseous Radwaste | |
| OLC-PWR-I005 | Miscellaneous Radwaste | |
| OLC-PWR-I006 | Clean Liquid Radwaste | |
| OLC-PWR-I007 | Spent Fuel Pool/Cooling | |
| OLC-PWR-I008 | Containment Vessel/Integrity | |
| OLC-PWR-I009 | Control Room Ventilation | |
| OLC-PWR-I010 | Radwaste Ventilation | |
| OLC-PWR-I011 | Non-Radwaste Ventilation | |
| OLC-PWR-I012 | Traveling Screens and Screen Wash | |
| OLC-PWR-I014 | Circulating Water System | |
| OLC-PWR-I015 | Vacuum System | |
| OLC-PWR-I016 | Turbine Plant Cooling Water | |
| OLC-PWR-I017 | Auxiliary Steam/Heating | |
| OLC-PWR-I018 | Plant Air System | |
| OLC-PWR-I019 | Service Water | |
| OLC-PWR-I020 | Component Cooling Water | |
| OLC-PWR-I021 | Condensate System | |
| OLC-PWR-I022 | Low Pressure Feedwater Heaters | |
| OLC-PWR-I023 | Feedwater | |

| <u>Lesson No.</u> | <u>Lesson Title</u> | <u>Book Number</u> |
|-------------------|---|------------------------|
| OLC-PWR-I024 | MFPT/Pump Control | 14 |
| OLC-PWR-I025 | H. P. Feedwater Heaters and Deaerator | |
| OLC-PWR-I026 | Once Through Steam Generator (OTSG) | |
| OLC-PWR-I027 | Main Steam | |
| OLC-PWR-I028 | Moisture Separator Reheaters | |
| OLC-PWR-I029 | Auxiliary Feedwater | |
| OLC-PWR-I030 | SFRCS | |
| OLC-PWR-I031 | Reactor Vessel and Internals | |
| OLC-PWR-I032 | Pressurizer | |
| OLC-PWR-I033 | Reactor Coolant Pumps and Motors | |
| OLC-PWR-I034 | Reactor Coolant System | |
| OLC-PWR-I035 | Non-Nuclear Instrumentation | |
| OLC-PWR-I036 | Control Rod Drive (Electrical) | |
| OLC-PWR-I037 | Nuclear Instrumentation | |
| OLC-PWR-I038 | Nuclear Instrumentation (Incores) | |
| OLC-PWR-I039 | Reactor Protection System | |
| OLC-PWR-I040 | Anticipatory Reactor Trip System | |
| OLC-PWR-I041 | Core Flood System | 15 |
| OLC-PWR-I042 | High Pressure Injection/BWST | |
| OLC-PWR-I043 | Decay Heat Removal/Low Pressure Injection | |
| OLC-PWR-I044 | Makeup and Purification | |
| OLC-PWR-I045 | Chemical Addition/Sampling | |
| OLC-PWR-I046 | CTMT Heat Removal | |
| OLC-PWR-I047 | Containment Hydrogen Systems | |
| OLC-PWR-I048 | Containment Ventilation | |
| OLC-PWR-I049 | CTMT Air Sampling | |

| <u>Lesson No.</u> | <u>Lesson Title</u> | <u>Book Number</u> |
|-------------------|--|------------------------|
| OLC-PWR-I050 | CTMT Vent/Drain | 15 |
| OLC-PWR-I051 | Safety Features Actuation System | |
| OLC-PWR-I052 | 345KV | |
| OLC-PWR-I053 | 13.8KV | |
| OLC-PWR-I054 | 4160 Volt | |
| OLC-PWR-I055 | Diesel Generator | |
| OLC-PWR-I056 | 480 Volt | |
| OLC-PWR-I057 | Instrument AC/DC | |
| OLC-PWR-I058 | Main Exciter | |
| OLC-PWR-I059 | Main Turbine Lube Oil | |
| OLC-PWR-I060 | Generator Seal Oil | |
| OLC-PWR-I061 | Generator Hydrogen/CO ₂ | |
| OLC-PWR-I062 | Stator Cooling Water | |
| OLC-PWR-I064 | Makeup Water Treatment/Demineralized Water | |
| OLC-PWR-I065 | ICS Big Picture | |
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