

July 14, 1998

Mr. Oliver D. Kingsley
President, Nuclear Generation Group
Commonwealth Edison Company
ATTN: Regulatory Services
Executive Towers West III
1400 Opus Place, Suite 500
Downers Grove, IL 60515

SUBJECT: NRC OVERSIGHT PANEL MEETING SUMMARY

Dear Mr. Kingsley:

The NRC Oversight Panel met with Commonwealth Edison and LaSalle County Station management on June 18, 1998, and July 1, 1998. These management meetings were open to public observation. Enclosure 1 contains the associated meeting summaries. Enclosure 2 contains the handouts provided to the NRC Oversight Panel by Commonwealth Edison during the meetings.

In accordance with Section 2.790 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter and its enclosures will be placed in NRC's Public Document Room.

Sincerely,

Original signed by

Geoffrey E. Grant, Director
Division of Reactor Projects

Docket Nos.: 50-373; 50-374
License Nos.: NPF-11; NPF-18

Enclosures: 1. Meeting Summaries
2. Meeting Handouts

See Attached Distribution

IE45 11

DOCUMENT NAME: G:\lasa\metsum.1

To receive a copy of this document, indicate in the box "C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure
"N" = No copy

OFFICE	RIII	☒	RIII	☒	RIII	☐	☐
NAME	Hills:co	DEV	Lanksbury	RD	Grant	CEG	
DATE	07/9/98		07/13/98		07/14/98		

OFFICIAL RECORD COPY

9807210196 980714
PDR ADOCK 05000373
P PDR

cc w/encls: M. Wallace, Senior Vice President
D. Helwig, Senior Vice President
G. Stanley, PWR Vice President
J. Perry, BWR Vice President
D. Farrar, Regulatory
Services Manager
I. Johnson, Licensing Director
DCD - Licensing
F. Dacimo, Site Vice President
T. O'Connor, Station Manager
P. Barnes, Regulatory Assurance
Supervisor
R. Hubbard
N. Schloss, Economist
Office of the Attorney General
State Liaison Officer
Chairman, Illinois Commerce
Commission

Distribution:

T. Hiltz, OEDO w/encls
S. Collins, NRR w/encls
E. Adensam, NRR w/encls
B. Boger, NRR w/encls
F. Miraglia, NRR w/encls
L. Gerke, OCA w/encls
Project Mgr., NRR w/encls
C. Paperiello, RIII w/encls
J. Caldwell, RIII w/encls
B. Clayton, RIII w/encls
SRI LaSalle w/encls
DRP w/encls
TSS w/encls
DRS (2) w/encls
RIII PRR w/encls
PUBLIC IE-01 w/encls
Docket File w/encls
GREENS

200092

Enclosure 1
Public Meeting Summaries
NRC Oversight Panel for LaSalle County Station

June 18, 1998, Management Meeting

Summary:

The licensee provided the NRC Oversight Panel with a handout (Enclosure 2) and discussed the information contained in the handout during the meeting. The discussions centered around the status of the LaSalle Restart Plan and the various steps necessary for Unit 1 restart. The areas discussed also included the integrated schedule, system readiness reviews, corporate assessments, status of system testing, and actions taken to transition the site organization to support power operations.

The licensee indicated the following with regards to current plant status and readiness for restart:

- The licensee stated that physical work on the plant was expected to be complete on June 26, 1998. Extensive progress had been made on completing modifications on the control room ventilation system, and work had been completed on Division III equipment. Sustained error free personnel performance remained a challenge. The licensee planned to continue to apply management focus on improving human performance.
- The licensee presented an integrated schedule which indicated that Unit 1 plant testing and system turnover would be completed on July 28, 1998. In addition, the licensee presented an overview of the site readiness and corporate review process.
- The licensee presented the status of system readiness reviews of which 61 of 66 reviews were complete. The licensee discussed the outage activities and performance improvement initiatives that were completed on the electro-hydraulic control system and the service water system.
- The licensee presented the actions taken by operations, maintenance, engineering, and radiation protection department personnel to support a smooth transition to power operations. Some of the initiatives planned or implemented by the licensee included reductions in control room distractions, "just in time" training initiatives, increased management presence in the control room, the use of experienced crew advisors, human performance improvement initiatives, training on the online risk monitoring program, and the establishment of a high radiation area control plan.

During the discussions, the NRC staff communicated the following considerations:

- The NRC staff questioned the licensee on how work associated with plant systems is dispositioned, specifically licensee management of the "punch list." The licensee staff stated that the work scope is being managed and that the "punch list" items, required to be completed prior to start-up, have been scheduled and will be completed prior to restart.

- The NRC questioned whether the site probabilistic risk assessment evaluations have been affected by the many modifications performed during the extended outage. The licensee staff stated that they will review this question and provide an answer to the NRC staff at a later date.
- The NRC and the licensee concurred after extensive discussion that the NRC restart readiness team inspection will begin on July 6, 1998. The inspection will be an in-depth review of the licensee's readiness for restart.

Meeting Attendees:

Nuclear Regulatory Commission

C. Paperiello, Acting Regional Administrator, Region III
 J. Caldwell, Deputy Regional Administrator, Region III
 G. Grant, Director, Division of Reactor Projects, Region III
 M. Leach, Chief, Operating Licensing Branch, Division of Reactor Safety, Region III
 D. Hills, Acting Chief, Branch 2, Division of Reactor Projects, Region III
 M. Huber, Senior Resident Inspector, LaSalle
 A. Vogel, Project Engineer, Branch 2, Division of Reactor Projects, Region III
 D. Skay, Project Manager, Project Directorate III-2, Office of Nuclear Reactor Regulation

Commonwealth Edison

O. Kingsley, President, Nuclear Generation Group
 F. Dacimo, Site Vice-President, LaSalle
 T. O'Connor, Station Manager, LaSalle
 J. Benjamin, Vice-President, Nuclear Oversight
 D. Helwig, Senior Vice-President
 W. Riffer, Manager, Nuclear Oversight, LaSalle
 N. Hightower, Radiation Protection Manager, LaSalle
 R. Heisterman, Maintenance Manager, LaSalle
 D. Farr, Operations Manager, LaSalle
 G. Campbell, Site Engineering Manager, LaSalle
 B. McConnaughay, Restart Testing Manager, LaSalle
 J. Amould, System Readiness Review Manager, LaSalle
 M. Pavey, Licensing
 P. Barnes, Restart Program Manager, LaSalle
 H. Pontious, Regulatory Assurance Supervisor, LaSalle
 I. Johnson, Licensing Director
 G. Benes, Licensing/Regulatory Services
 M. Ferko, "A" Electrician, LaSalle
 L. Lehman, System Engineer, LaSalle
 P. Resler, Site Communications Coordinator, LaSalle
 D. Bowman, Chemistry Manager, LaSalle

Other Attendees

T. Poindexter, Winston & Strawn

July 1, 1998, Management Meeting

Summary:

The licensee provided the NRC Oversight Panel with a handout (Enclosure 2) and discussed the information contained in the handout during the meeting. The discussion centered around the status of the LaSalle Restart Plan and the various steps necessary for Unit 1 restart. The areas discussed also included the integrated schedule, the Integrated Operations Performance Review (IOPR) the status of system readiness reviews, and an overview of two regulatory programs, specifically the 10 CFR Part 50, Appendix R, Fire Protection program, and the Environmental Qualification (EQ) program. During the licensee's presentation, the licensee addressed NRC questions and comments.

The licensee indicated the following with regards to the effectiveness of improvement actions and current plant performance:

- Departmental Readiness Assessments were complete. Commonwealth Edison (ComEd) corporate personnel would convene a board to evaluate the readiness of LaSalle to restart. The corporate board, which will convene in July 1998, will review site reports, conduct its own independent assessment through discussions with plant staff, and provide a report and recommendations regarding the restart of LaSalle.
- The System Readiness Reviews were complete and progress was being made toward system turnover to the operations department. Regulatory program reviews were also complete.
- The licensee presented some findings from an evaluation of the Division I and II emergency core cooling system integrated response time tests conducted as part of the licensee's IOPR. The IOPR was intended to ensure the effectiveness of LaSalle Station to support restart of Unit 1. The preliminary overall assessment was that human performance was satisfactory with a few specific strengths and areas for improvement noted.
- The licensee stated that the LaSalle Restart Plan Action items were completed. However, the NRC expressed concern that some items had been assigned to other tracking systems and had not been actually completed. Also, Site Nuclear Oversight reviews of some items listed as complete had not been accomplished.

During the discussion, the NRC staff communicated the following considerations:

- Referring to poor performance of a crew during a recent NRC observed licensed operator requalification examination, the NRC staff questioned whether licensed operator performance was sufficient to support restart. The licensee pointed out that this crew failure consisted of personnel who were not assigned shift duties (i.e., staff personnel in the operations support area).
- Noting a recent licensee identified deficiency in which a few components were found to not be included in the EQ program as required, the NRC questioned the effectiveness of the licensee's review of this area. The licensee stated that a 100 percent review had not been conducted; however, a sampling of systems was performed by Nuclear Oversight

personnel which did not indicate additional instances of failure to include required components in the EQ program.

Meeting Attendees:

Nuclear Regulatory Commission

C. Paperiello, Acting Regional Administrator, Region III
S. Richards, Director, Project Directorate III-2, Office of Nuclear Reactor Regulation
M. Dapas, Deputy Director, Division of Reactor Projects, Region III
M. Leach, Chief, Operating Licensing Branch, Division of Reactor Safety, Region III
R. Lanksbury, Chief, Branch 2 and 5, Division of Reactor Projects, Region III
R. Crane, Resident Inspector, LaSalle, Division of Reactor Projects, Region III
A. Vegei, Project Engineer, Branch 2, Division of Reactor Projects, Region III
E. Duncan, Engineering Inspector, Division of Reactor Safety, Region III

Commonwealth Edison

O. Kingsley, President, Nuclear Generating Group
D. Helwig, Senior Vice-President
S. Perry, Vice-President of Boiling Water Reactor Operations
J. Benjamin, Vice-President, Nuclear Oversight
F. Dacimo, Site Vice-President, LaSalle
T. O'Connor, Station Manager, LaSalle
G. Campbell, Site Engineering Manager, LaSalle
G. Heisterman, Maintenance Manager, LaSalle
W. Riffer, Manager, Nuclear Oversight, LaSalle
J. Arnould, System Readiness Review Manager, LaSalle
H. Pontious, Regulatory Assurance Supervisor, LaSalle
P. Barnes, Restart Program Manager, LaSalle

Other Attendees

C. Dellimore, Reporter, WBBM Newsradio 78

Enclosure 2

Commonwealth Edison
Management Meeting Handouts



LaSalle County Restart Meeting

June 18, 1998

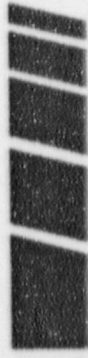
LaSalle





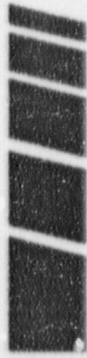
Agenda

• Opening Remarks	F. Dacimo
• Integrated Schedule/Plant Status	T. O'Connor
• Corporate Assessments	J. Benjamin
• System Readiness Reviews	J. Arnould
• System Testing	R. McConnaughay
• Transition to Operations	D. Farr
	G. Heisterman
	G. Campbell
	N. Hightower
	T. O'Connor



Current Plant Status

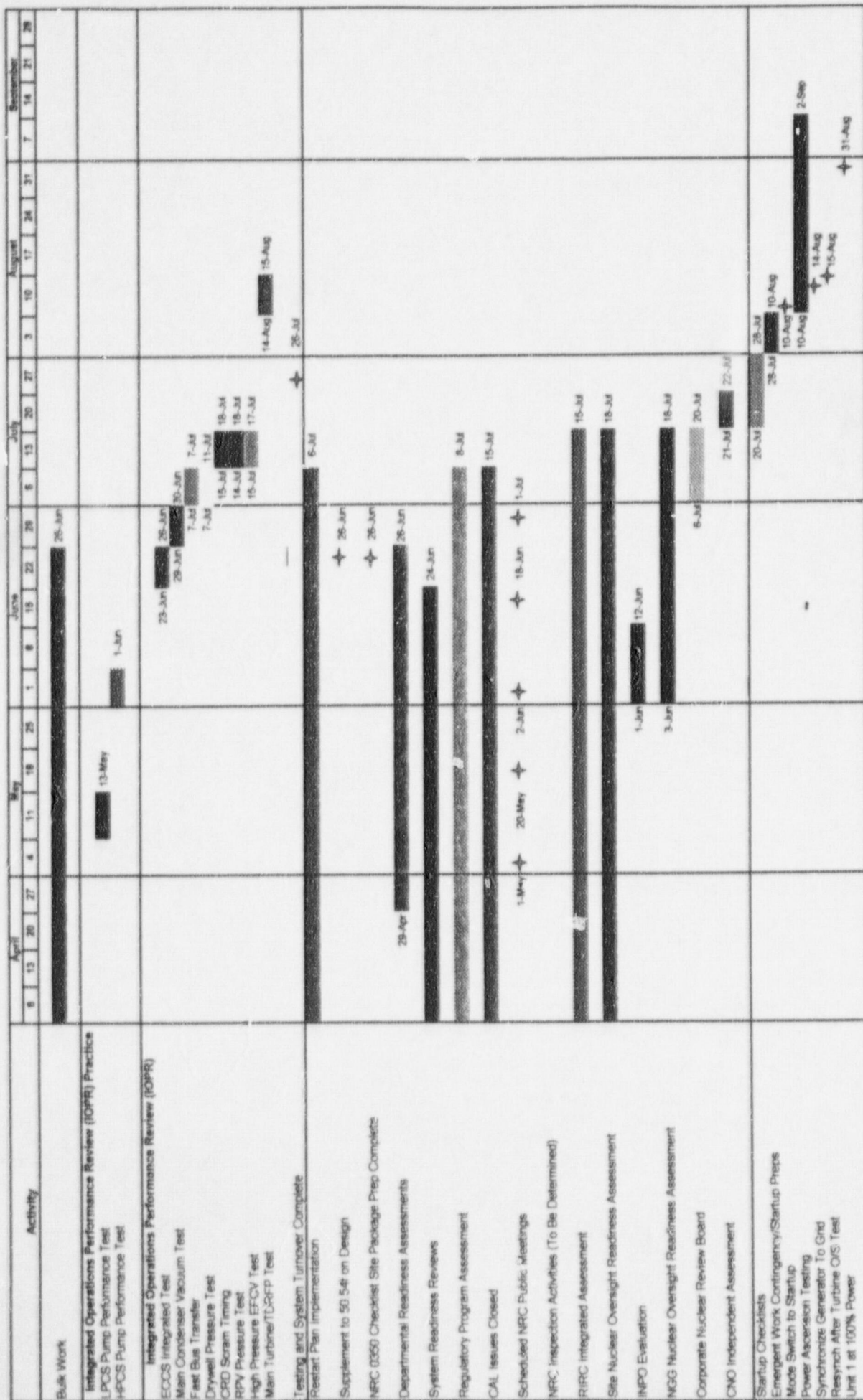
- **Significant activities since last meeting (6/2/98)**
 - Div III declared operable
 - VC/VE flow balancing
 - Turbine bypass valve testing
 - Primary containment expansion tank modification
 - Systems Status
 - 101 of 133: physical work complete
 - 22 of 91: testing complete
 - 57 of 133: turned over to Operations



Current Plant Status

- **Physical work completion on 6/26/98**
- **Plant Testing/System Turnover 7/28/98**
 - Discovery phase complete except for testing
 - L1F35 scope adds from June 1 to June 15 included:
 - 129 Support Detail
 - 51 Testing - Broke/Fix
 - 36 Broke/Fix
 - 24 Tasks
 - 5 Management Decision
 - 3 Program Growth

Lasalle County Station Major Milestone and Restart Assessment





Overview of Site Readiness & Corporate Oversight Process

- Site Readiness Reviews
- Corporate Nuclear Review Board
- Nuclear Oversight Assessments
- Nuclear Safety Review Board

APPROACH CONSISTENT WITH RESTART PLAN



Site Readiness Reviews

- **Restart Issue Review Committee**
 - Evaluation and disposition of INPO Assessment
 - Restart Strategy Action Plans
 - Department Readiness Assessments
 - System Readiness Reviews
 - Regulatory Program Reviews
 - Confirmatory Action Letter Issue Resolution
 - Integrated Operational Performance Reviews
- **Results in Restart Recommendation to SVP**

Corporate Nuclear Review Board

- **Chaired by Vice President - BWRs**
- **Review Charter includes:**
 - Site Vice President's Affirmation
 - Evaluation and disposition of INPO Assessment
 - Readiness to transition to operating plant
 - Select System Readiness Reviews
 - Review of Restart Strategy Closure
- **Criteria consistent with site process**
- **Scheduled to follow site reviews**

Nuclear Oversight Assessments

- **Verify appropriate Oversight Organization**
- **Perform assessments of site readiness reviews - Site Nuclear Oversight**
- **Corporate Assessment of Restart Readiness utilizing outside expertise**
- **Perform additional assessments as determined by Senior Management**
- **Result is Restart Recommendation to Nuclear Oversight VP**



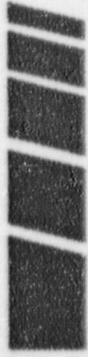
Nuclear Safety Review Board

- **Chartered by Chief Nuclear Officer**
- **Review conducted near end of Site/Corporate reviews**
- **Focus includes:**
 - Overall plant readiness for restart
 - Readiness to transition to operating plant
 - Overall effectiveness in identifying and correcting problems
 - Other issues determined by CNO
- **Provide recommendation directly to CNO**



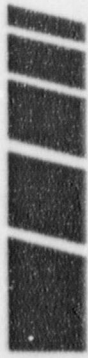
Nuclear Safety Review Board

- Chartered by Chief Nuclear Officer
- Review conducted near end of Site/Corporate reviews
- Focus includes:
 - Overall plant readiness for restart
 - Readiness to transition to operating plant
 - Overall effectiveness in identifying and correcting problems
 - Other issues determined by CNO
- **Provide recommendation directly to CNO**



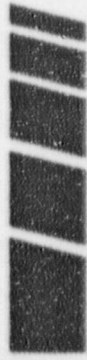
Schedule

- **Department Readiness Assessments**
 - Complete by 6/26
- **Nuclear Oversight**
 - Complete by 7/18
- **Corporate Nuclear Review Board**
 - Complete by 7/20
- **Nuclear Safety Review Board**
 - Convenes 7/21-22
- **NRC Team Inspection to be scheduled**



System Readiness Reviews & Turnovers To Operations

System Walkdowns	Complete
System Readiness Reviews (5 remaining associated with VC/VE)	61 of 66
Systems Turned Over To Operations	57 of 133



Electro-Hydraulic Control (EH)

• L1F35 Activities

- Modified EHC oil trip logic to allow time for mechanical trip valve to reset
- Relocated pressure switch sensing line to minimize flow interactions during testing
- Installed interposing relay to prevent drop-out of relay during testing
- Relocated air vent line of EHC pumps to minimize vibration
- Insulated heat sources in the heater bay to minimize heat induced damage

• Aggregate Evaluation

- Material condition improvements ensure EH system will support full power operation

LaSalle

Non-Safety-Related Service Water (WS)

- **L1F35 Activities**

- Replaced numerous valves with ones better suited for the service required
- Overhauled service water strainer due to excessive wearing
- Overhauled jockey pumps due to coupling lubrication failure
- Replaced sections of strainer backwash piping due to leaking pipe

- **Aggregate Evaluation**

- Material condition improvements ensure WS system will support full power operation



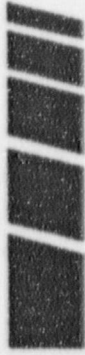
System Testing & Paper Close-out Schedule

Complete
In Progress

Complete	In Progress
LL Bakas	GD Parker
CF Wilhelmsen	WG Wilhelmsen
HT Jose	
Date	6/7/98

HS Alberico	PS Cooper	GS Alberico	VS Pande	VD Naughton	VX Stoll	VW Gutierrez	06/14/98
LP Cooper	SH Gutierrez	SW McLain	ZN McLain	AR Dausin	RI Garmchuk	DV Leimkuehler	06/21/98
IA Delap	CM Naughton	CQ Jose	MC McLain	RG Pande	RT Kats	HP Cooper	06/21/98
CB McLain	CP Falkreddline	VY Garber	RH Damron	VC Pande	DG Dockrel	PR Dausin	06/28/98
ES Leimkuehler	FP Vickers	GA Parker	IN Delap	TO Alberico	VO Stoll	VP Jablonski	06/28/98
AR Dausin	SY Simonds	PI Raebl	NT Garber	RX Garmchuk	SC Cooper	EH Alberico	06/28/98
HD Leimkuehler	TS Craig	CD McLain	HY Parker	RE Kats	RP Jose	RE Kats	06/28/98
CY McLain	VC Pande	OG Latimer	NR Pfister	WT Lehman	VR Garber	CS Garber	7/5/98
MB Simonds	RD Raebl	VQ Diaz	EM Dausin	LD Garmchuk	TG Alberico	FW Wilhelmsen	7/12/98
FC Kats	GC Parker	RL Wilhelmsen	AP Bakas	WS Wilhelmsen	WL Latimer	LM Damron	7/19/98
CW McLain	CN McLain	SA Delap	PC Jose	DC Parker			
HG Latimer							

LaSalle



System Testing

- HELB Modification Test
- LPCS Pump Motor Cooler Data Acquisition Test
- Diesel Generator Room Cooling Restoration Test



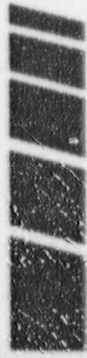
Transition To Operations - Unit 1

- **Operations will lead the Station**

- Reductions in control room distractions, temporary alterations, and Operator workarounds
- Training on startup, shutdown and online risk management
- Management presence in the Control Room
- Experienced Crew Advisors
- LaSalle Operators visit Dresden and Quad Cities Stations
- Power Ascension Plan with appropriate hold points

- **Continue to *closely* monitor human performance in Operations**

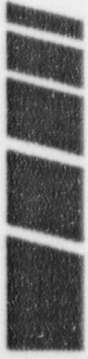
LaSalle



Transition To Operations - Unit 1

● **Maintenance**

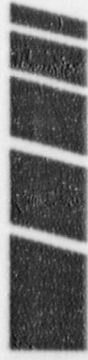
- Restoring plant to clean, operating condition
- Implemented Strategic Initiative NGG-3 Material Condition Improvement Strategy
 - Developed 1- year plan; Developing 3-year plan
- IM Techs to use valving simulator for surveillance practice
- IM Techs working with Dresden during power operation
- Human performance initiatives (e.g., Leadership & Standards Book, Rework Teams, skills and subject area training, Scorecard)



Transition To Operations - Unit 1

- **Work Control**

- 12-Week Rolling Work Management System
- Training on online risk management
- Focus during power ascension on surveillances, PMs and non-outage backlog
- Outage Execution Center (OEC) will be used through power ascension
- FIN Team addressing emergent work to minimize schedule impacts
- Human performance initiatives (Work Analyst training, Scorecard)



Transition To Operations - Unit 1

- **Engineering**

- Major material condition improvements have been made
- Readiness reviews and 1-year material condition plan will pave way for continuing improvements
- Support implementation of Material Condition Improvement Plan - Strategic Initiative NGG3
- Maintenance Rule/System Health Indicator Programs to monitor system performance
- Human performance initiatives to address low threshold issues such as attention to detail and administrative procedure adherence



Transition To Operations - Unit 1

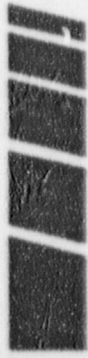
- **Radiation Protection**

- High radiation area control plan established
- Training given on plant modifications
- New Rad Worker training
- Configuration control being addressed in procedures
- RP and Chemistry Human performance initiatives (e.g., clarified and reinforcing expectations, in-plant observations to verify expectations being met, accountability for Human Performance events)

Transition To Operations - Unit 1

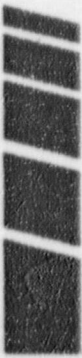
- **Management Actions**

- Focus will be on Unit 1
- “Stand downs” to focus on transition
- Transfer of Lessons Learned from Quad Cities
- Review of INPO Operating Experience Manual
- “Problems Experienced During Start-up from Long Term Shutdown”
- Scram reduction initiative
- Continue daily and Weekly Unit 1 Status Meetings
- Continue routine review of Nuclear Oversight observations/findings



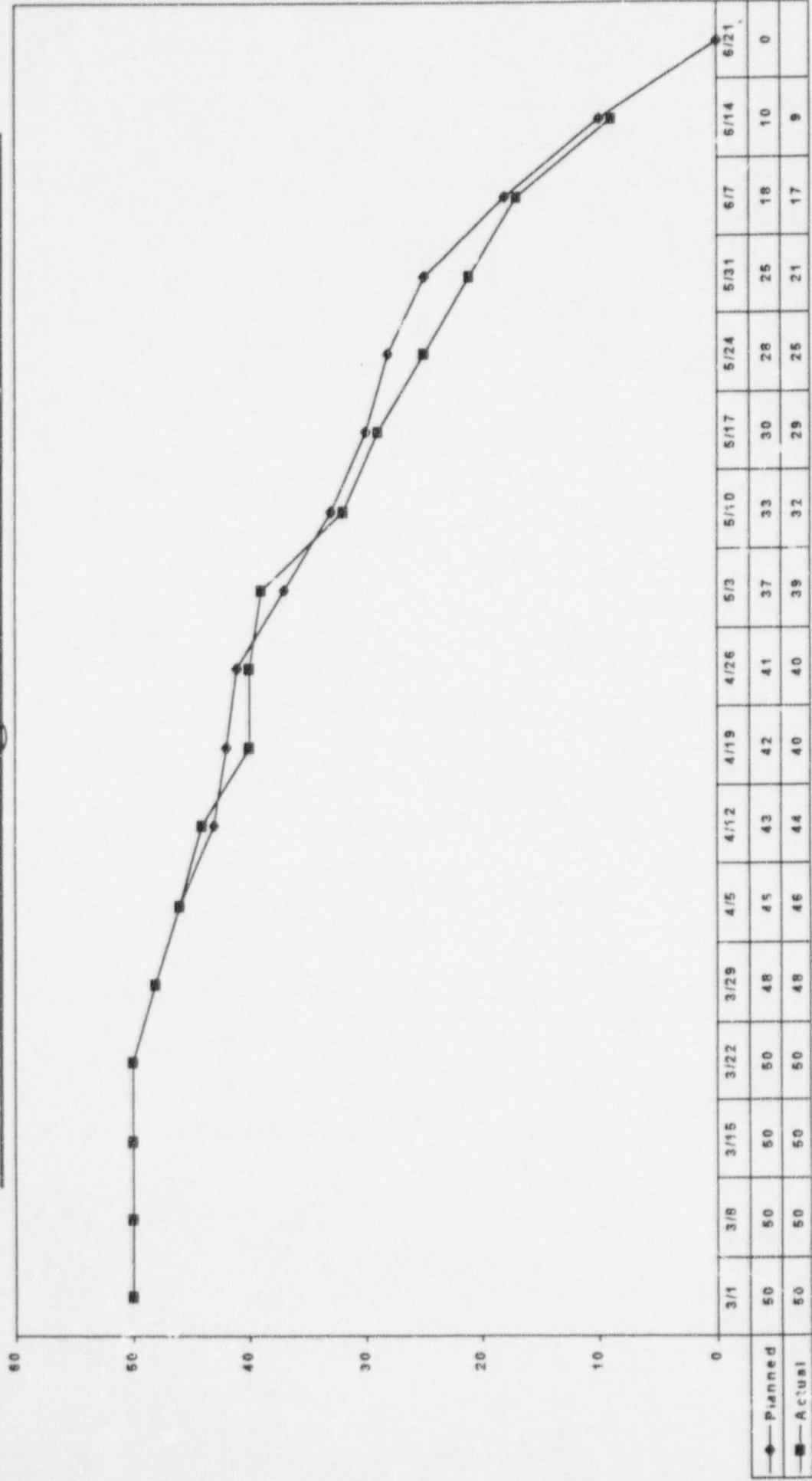
Transition To Operations - Unit 1

- **Management Actions** (continued)
 - Strategic Initiative NGG-1 Performance Indicators monitor performance
 - Human performance initiatives (e.g., Pocket Book training, Supervisor scorecard training, Site accountability)
 - Unit 2
 - Station direction will be to reinforce safe, reliable Unit 1 operation
 - Physically separate from Unit 1
 - Separate funding and accounting



0350 Checklist Items

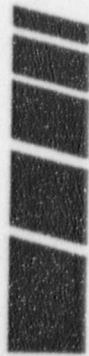
LaSalle Package Workdown Status



LaSalle

NRC 0350 Checklist Status

NRC Inspection	0350 Item	Site Package Status	NRC Review Status
Training – IR 97014 (6/25/97 – 8/16/97)	C.3.3.c	NA	Closed
Residents – IR 98009 (3/11/98 – 4/22/98)	C.2.3.a C.2.3.d	Complete Complete	Closed Closed
E&TS – IR 98005 (3/9/98-4/21/98)	C.2.3.c C.3.4.a C.4.e C.4.k C.7.a C.7.b	Complete Complete Complete Complete Complete Complete	Ongoing – To C/A Closed Ongoing – To RRAT Closed Closed Closed
Residents - IR 98010 (4/22/98-6/5/98)	C.2.2.d C.2.2.e C.2.2.f C.2.2.g C.4.h C.4.i	Complete Complete Complete Complete Complete Complete	To Panel For Review To Panel For Review To Panel For Review Ongoing – To SRI 6/98 To Panel For Review To Panel For Review
C/A – IR 98012 (5/11/98-6/5/98)	C.2.1.a C.2.1.d C.2.1.g C.2.2.c C.2.2.h C.2.3.c C.3.4.b	Complete Complete Complete Complete Complete Complete Complete	To Panel For Review To Panel For Review To Panel For Review To Panel For Review To Panel For Review Ongoing – To RIII Engrg To Panel For Review
Fill Engineering – IR 98014 (5/27/98 – 6/26/98)	C.2.3.c	Complete	Ongoing
Requal Exam (6/15/98-6/25/98)	C.3.3.a	Complete	
Residents (6/6/98 – 7/15/98)	C.2.2.a C.2.2.b C.2.2.g C.3.1.c C.3.1.d C.3.1.k C.4.c C.4.f C.4.i	Working - 6/21/98 Working - 6/21/98 Complete Working - 6/21/98 Working - 6/21/98 Working - 6/21/98 Complete Complete Complete	Ongoing Ongoing Ongoing Ongoing
Restart Readiness Assessment Team (Current Schedule is 7/6/98 to 7/17/98; depends on NOD/NGG Assessment Schedule)	C.3.3.b C.3.3.d C.3.3.e C.3.3.f C.3.3.g C.4.a C.4.b C.4.d C.4.e C.4.g	Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete	
Restart Panel Review (TBD – July)	C.3.1.a C.3.1.b C.5.a C.5.b C.5.c C.5.e C.5.f C.5.g C.6.a C.6.e C.6.f C.6.g	Working - 6/21/98 Working - 6/21/98 Complete Complete Complete Working - 6/21/98 Complete Complete Complete Complete Complete Complete	



LaSalle County Restart Meeting

July 1, 1998

LaSalle



07/1/98

JUL 07 1998



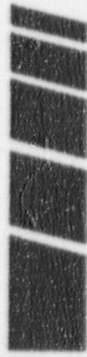
Agenda

- Opening Remarks F. Dacimo
- Integrated Schedule/Plant Status T. O'Connor
 - Integrated Operations Performance Review
- System Readiness Review G. Campbell
- Regulatory Program Review G. Campbell
- Department Readiness Review T. O'Connor
- Closing Remarks F. Dacimo



Current Plant Status

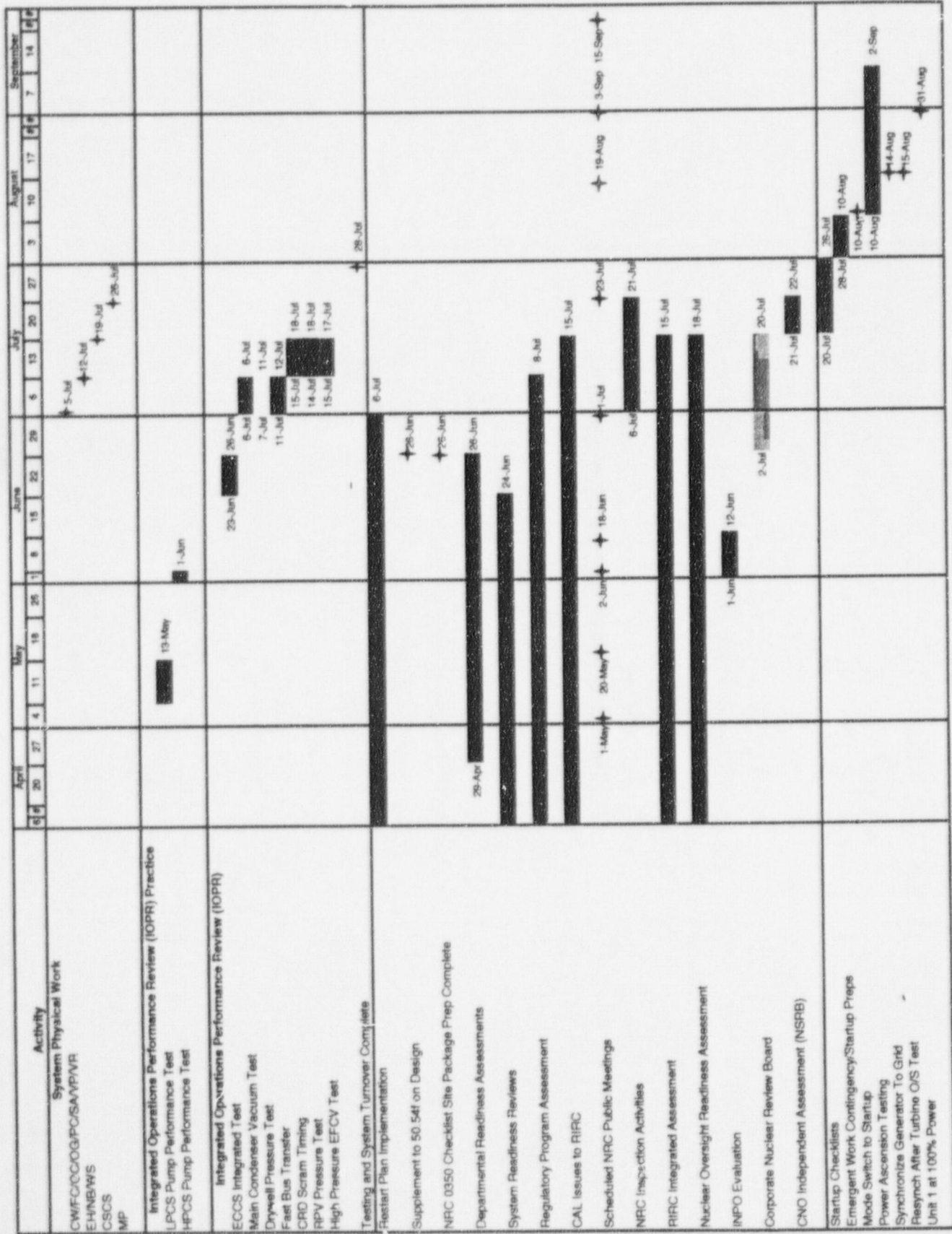
- Significant activities since last meeting (6/18/98)
 - VC/E declared operable 6/21/98
 - ECCS Integrated Test satisfactory
 - Supplement to 50.54f on adequacy and availability of design bases submitted 6/26/98
 - Site Readiness Assessments Completed
 - System Readiness Reviews
 - Department Readiness Reviews
 - Regulatory Program Reviews

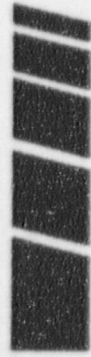


Current Plant Status

- System Physical Work
 - 121 of 133 completed, 21 since last meeting
- System Testing
 - Completed 36 since last meeting
- System Turnover to Operations
 - 84 of 133 completed, 28 since last meeting

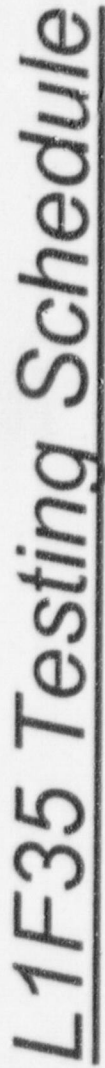
LaSalle County Station Major Milestone and Restart Assessment



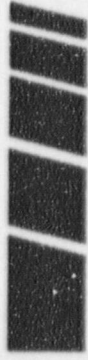


Current Plant Status

- Additional Scope
 - Mid-cycle shutdown surveillances
 - Lessons learned from Quad Cities trips
 - Lessons learned from recent Dresden Performance
 - Scram reduction initiatives

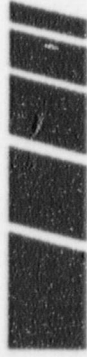
[illegible]

LaSalle



System Testing Results

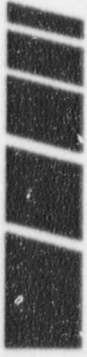
- VC/E Final Flow Balance Test
 - No significant problems
- EHC Turbine Valve Limit Switch Calibrations
 - No significant problems
- Heater Drain System
 - Low minimum flow values - 3 of 4 pumps
 - 1D pump seal failure
 - 1A pump vibration
- RE/RF Drywell Sumps
 - Level magnetrol and displacer problems



Integrated Operations

Performance Review

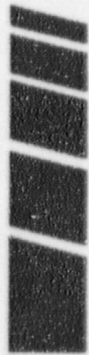
- ECCS Integrated Test
 - Div. 2 - 6/23/98; Div 1 - 6/26/98
- Positive observations
 - Operations command & control over plant activities
 - Procedural quality & adherence
 - Organizational response to equipment problems
 - Shift Manager oversight in HLA & MCR
 - Operations control over level of MCR distractions (concurrent activities)



Integrated Operations

Performance Review

- Human performance satisfactory during test
- Focus areas for performance enhancement
 - Worker knowledge of changing plant conditions
 - Work groups not consistently adhering to standards of communication
 - Operations not consistently holding other work groups to their standard of performance



System Readiness Reviews

Status as of 6/21/98*

W/E REPRESENTS THE WEEK THAT THE OVERALL REVIEW IS SCHEDULED FOR COMPLETION

W/E	3/15	3/22	3/29	4/5	4/12	4/19	4/26	5/3	5/10	5/17	5/24	5/31	6/7	6/14	6/21
Total	1	2	4	1	3	4	2	3	8	8	12	7	7	3	1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

SRRB - System Readiness Review Board



- 66 of 66

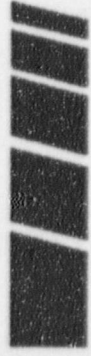


- 66 of 66



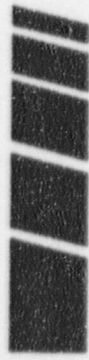
- 66 of 66

LaSalle



System Readiness Reviews

- System Readiness Reviews Complete
 - Provided System Engineers an education and background on system issues
 - Baseline for continuing material condition improvements
- Lessons Learned for Unit 2
 - Conduct multi-discipline walkdowns early
 - Integrated system engineer into scope control process
 - Develop systems-based return to service logic



Regulatory Program Reviews

- Verified program compliance with requirements and readiness for restart
- Reviewed NRC generic communications from 1981 to present
 - 23 Regulatory program areas identified for review
- Review methods
 - Nuclear Oversight Assessments
 - System Readiness Review
 - Line Management Assessments



Regulatory Program Review

App. R - Safe Shutdown/Fire Protection

- Scope
 - 10CFR50.48; GL 82-21; 10 CFR Part 50 App. R; QATR
 - Program implementation effectiveness
 - Effectiveness of process used to evaluate/correct 1997 Quad Cities issues
 - Adequacy of closed corrective actions from previous audits
- Focus Areas
 - Fire Protection Program Administration
 - Design Control and Procurement
 - Installation, Operability and Maintenance

LaSalle



Regulatory Program Review

App. R - Safe Shutdown/Fire Protection

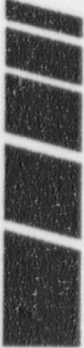
- Focus Areas (continued)
 - Testing, Surveillance and Inspection
 - Fire Prevention
 - Fire Brigade Readiness
 - Combustible Material Control
 - OPEX, Lessons Learned and Recurrence Control of Past Audit Findings
- Findings
 - Regulatory requirements adequately addressed
 - Quad Cities SSD path inoperability determined not to be an issue at LaSalle



Regulatory Program Review

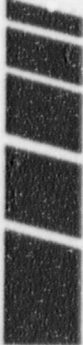
App. R - Safe Shutdown/Fire Protection

- Findings generally grouped as:
 - Inadequate procedural guidance
 - Failure to follow procedures
- Findings screened against restart criteria
- Corrective actions are complete
 - Evaluated extent of condition
 - Recurrence control addressed
- Post-restart actions tracked by NTS



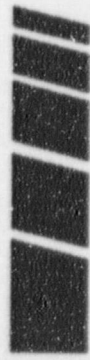
Regulatory Program Reviews - Environmental Qualification (EQ)

- Scope
 - Policy and procedure adequacy and implementation
- Focus Areas
 - Procedures; EQ Binder
 - Deviations/Non-conformances
 - Procurement, maintenance surveillances, modifications, and procurement interface
 - IEN 89-63 (Submergence of Circuits)
 - Previous EQ audit reports
 - Backlog
 - Qualification and training



Regulatory Program Reviews - Environmental Qualification (EQ)

- Findings
 - Strong foundation for controlling EQ Program
 - Corrective actions ensure compliance
 - One Level II CAR issue: Binder control and auditability
 - Restart issues identified by assessment were already being addressed, as required



Departmental Readiness Reviews

Departments Reviewed

Chemistry	Construction
Engineering	Electrical Maintenance
Finance	Fuel Handling
Instrument Maintenance	Maintenance Support
Operations	Outage Management
Plant Services	Q&SA
Radiation Protection	Radwaste
Regulatory Assurance	Security
Training	Work Control

Departmental Readiness Reviews

- Conclusions
 - Departments are ready to support restart
 - Actions are in place/being developed for continuing performance improvements
 - Corrective actions for post-restart actions are tracked
- Focus Areas
 - Human Performance
 - Restart Issue Resolution
 - Processes and Programs
 - Backlogs

Departmental Readiness Reviews

- Rigorous RIRC review methodology
 - Provided in Restart Plan implementing documents
 - Twenty attributes addressed for each Department
- RIRC required evidence of performance
 - Performance indicators, training, plant observations, etc.
 - Presenters had to demonstrate that corrective actions were effectively addressing issues
- RIRC and Departments learned from process
 - Development of continuous improvement plans
 - Improve configuration control (non-operations)
 - Increase quality of management observation programs
 - Increased attention to abandoned equipment

NRC 0350 Checklist Status			
NRC Inspection	0350 Item	Site Package Status	NRC Review Status
Training - IR 97014 (6/25/97 - 8/16/97)	C.3.3.c	NA	Closed
Residents - IR 98009 (3/11/98 - 4/22/98)	C.2.3.a C.2.3.d	Complete Complete	Closed Closed
E&TS - IR 98005 (3/9/98-4/21/98)	C.2.3.c C.3.4.a C.4.e C.4.k C.7.a C.7.b	Complete Complete Complete Complete Complete Complete	Ongoing - To C/A Closed Ongoing - To RRAT Closed Closed Closed
Residents - IR 98010 (4/22/98-6/5/98)	C.2.2.d C.2.2.e C.2.2.f C.2.2.g C.4.h C.4.i	Complete Complete Complete Complete Complete Complete	To Panel For Review To Panel For Review To Panel For Review Ongoing - To SRI 6/98 To Panel For Review To Panel For Review
C/A - IR 98012 (5/11/98-6/5/98)	C.2.1.a C.2.1.d C.2.1.g C.2.2.c C.2.2.h C.2.3.c C.3.4.b	Complete Complete Complete Complete Complete Complete Complete	To Panel For Review To Panel For Review To Panel For Review To Panel For Review To Panel For Review Ongoing - To RIII Engrg To Panel For Review
RIII Engineering - IR 98014 (5/27/98 - 6/26/98)	C.2.3.c	Complete	Ongoing
Requal Exam (6/26/98-7/2/98)	C.3.3.a	Complete	
Residents IR 98011 (6/6/98 - 7/15/98)	C.2.2.a C.2.2.b C.2.2.g C.3.1.c C.3.1.d C.3.1.k C.4.c C.4.f C.4.i	Complete Complete Complete Complete Complete Complete Complete Complete Complete	Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing
Restart Readiness Assessment Team (7/6/98 to 7/21/98)	C.3.3.b C.3.3.d C.3.3.e C.3.3.f C.3.3.g C.4.a C.4.b C.4.d C.4.e C.4.g	Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete	
Restart Panel Review (TBD - July)	C.3.1.a C.3.1.b C.5.a C.5.b C.5.c C.5.e C.5.f C.5.g C.6.a C.6.e C.6.f C.6.g	Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete	

Updated: 02/30/98