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50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana M 05000316
AUTH.NAME AUTHOR AFFILIATION
BURGESS,B.L. Region 3 (Post 820201)
RECIP.NAME RECIPIENT AFFILIATION
SAMPSON,J. American Electric Power Co., Inc.

See Meeting Summaries

SUBJECT: Submits summary of 980709 meeting w/util re progress toward resolving issues necessary for startup.Summary version of restart master schedule & list of attendees encl.

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TITLE: Summary of Significant Meeting with Licensee (Part 50)

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CATEGORY 2 DOCUMENT

UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
801 WARRENVILLE ROAD
LISLE, ILLINOIS 60532-4351

July 15, 1998

Mr. John Sampson
Site Vice President
Nuclear Generation Group
American Electric Power Company
500 Circle Drive
Buchanan, MI 49107-1395

SUBJECT: SUMMARY OF THE JULY 9, 1998, PUBLIC MEETING TO DISCUSS D. C. COOK RESTART ACTIVITIES

Dear Mr. Sampson:

This letter refers to a meeting held between the NRC and Donald C. Cook plant staff to discuss your progress toward resolving those issues necessary for plant startup conducted on July 9, 1998. This meeting was open to public observation. The meeting started with a presentation of the restart plan master schedule. You indicated that changes may be necessary to the master schedule as lower tier schedules are finalized or as additional information is received from restart plant activities. The NRC requested a complete set of schedules when available. A summary version of the restart plan master schedule is contained in Enclosure 2 to this letter.

During the meeting, your staff discussed the status of the startup plan and reiterated that the discovery phase or Phase 1 of the restart plan is complete. This phase involved system readiness reviews of 21 safety systems and programmatic and functional assessments of selected areas, including corrective action, design, design change impact, operations, and maintenance. The results of functional and area assessments continue to be reviewed by the Restart Oversight Committee for determination of plant restart items.

The status of Phase 2 of the restart plan was discussed. Phase 2 consists of the actual work activities needed for plant restart. To date, approximately 447 items have been assessed as restart issues, with additional items expected from the completion of the functional and programmatic assessments. During the meeting, a new aspect of the restart plan was introduced as Phase 3. Phase 3 involves a compilation of all of the documentation generated by the completion of activities performed to close a restart issue. Your staff indicated that restart closure packages will be contained in a central file location that will provide access for inspection and review activities. Phase 4 has now been designated for those activities that comprise actual plant startup.

D. C. Cook licensing and engineering personnel also discussed those activities requiring NRC licensing or review prior to plant restart. To date, only two items involved Technical Specification amendments. These amendments involved wording changes to the specification for the hydrogen recombiners and the reinstatement of the specifications for the boric acid concentration reduction initiative. Both amendments have been submitted for NRC review. Other issues discussed that may involve Technical Specification amendments include diesel generator cable routing, containment spray pump vibration, containment sump pH, and reanalysis of containment post accident conditions, including hydrogen analysis by Westinghouse.

220069

A status of ice condenser work was also presented and the issues associated with the independent review of the containment spray system were also discussed. Your staff indicated that the use of operability evaluations performed in accordance with Generic Letter 91-18 or the completion of a 10 CFR 50.59 safety evaluation may be needed. The NRC requested and you committed to provide the NRC with documentation for any operability or safety evaluations completed prior to plant startup.

Enclosure 1 is a list of meeting attendees. Enclosure 2 contains the handout provided to the NRC during the meeting.

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter and its enclosures will be placed in the NRC Public Document Room.

Sincerely,

Bruce L. Burgess, Chief
Reactor Projects Branch 6

Docket Nos.: 50-315; 50-316
License Nos.: DPR-58; DPR-74

Enclosures: 1. Meeting Attendees
2. Meeting Handout

cc w/encls: Don Hafer, Acting Chief
Nuclear Engineer
Douglas Cooper, Plant Manager
Richard Whale, Michigan Public
Service Commission
Michigan Department of
Environmental Quality
Emergency Management
Division, MI Department
of State Police
David A. Lochbaum, Union
of Concerned Scientists

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Bruce L. Burgess, Chief
Reactor Projects Branch 6

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Emergency Management
Division, MI Department
of State Police
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of Concerned Scientists

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Enclosure 1

COOK NUCLEAR PLANT
RESTART MEETING ATTENDANCE LIST
JUNE 9, 1998

NRC

James Caldwell
Ron Bellamy
Bruce Burgess
Bruce Bartlett
Brian Fuller

PUBLIC

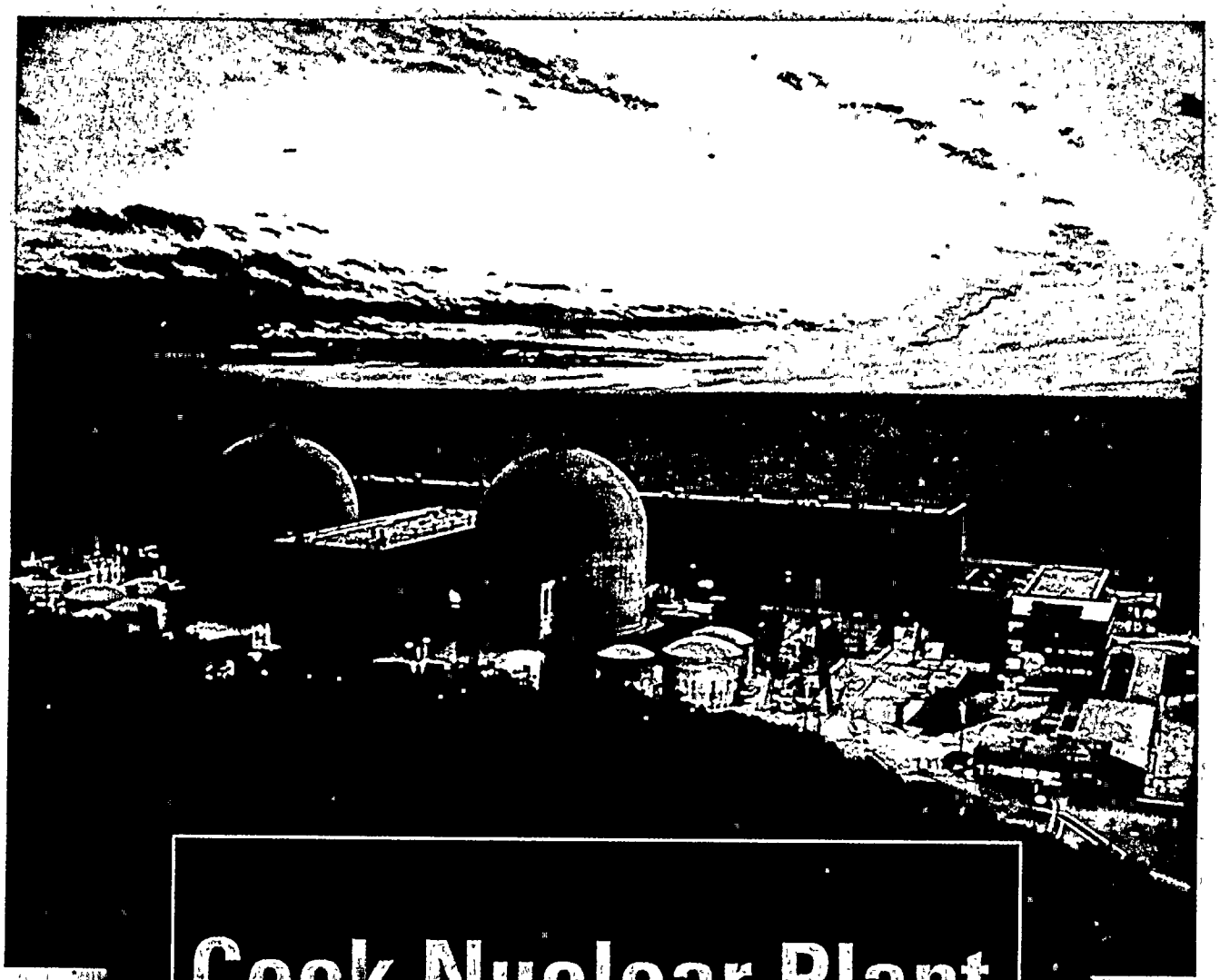
Joseph Gallo (Gallo and Ross)
Dan Salter (HGP)
Gene Poletto (DES)

AEP

John Sampson
Doug Cooper
Steve Brewer
Don Hafer
Paul Barrett
John Boesch
Ken Baker
Dave Powell
Paul Schoepf
Phil Gora
Mark Ackerman
Mark Kelly
Jeremy Euto
Tom Kratt
Bill Schalk
Jeb Kingseed
Gary Weber
Roger Rickman
Bo Smith
Denny Willemin
Kathy McLaughlin
Mark Mitch
Gary Proulx
Joel Gebbie
Dan Boston
Mike Finissi
Doug Malin
Gordon Allen
Jim Tyler
John Schrader
Byron Bradley

Bob Heathcote
Jay Kovarik
David Walker
Brent Auer
David Bublick
Bart Benjamin
Darryl Lynch
Tim Schlimpert
Bob Smith
Guy Tollas
Doug Burris
Doug Mason
Jack Rutkowski
Wayne Walschof
Terry Postlewait
Steve DeLong
Frank Pisarsky
Scott Kelley
Dave Kosonovich
Richard Strasser
Thomas Craven
Rod Simms
Mickey Bellville
Keith Steinmetz
Gordon Arent
Tom Quaka

Maintenance Rule Risk Significant System (sorted by risk significance)	Also SERB System
ESW	x
CCW	x
RPS & ESFAS (counts as 2)	x
RHR	x
EDG/EDGS	x
OFFSITE POWER	*Not reviewed*
AFW	x
CTS	x
CONTROL AIR & PLANT AIR (counts as 2)	x
250 VDC	x
ACCUMULATORS	x
SI	x
RCS PRESSURE RELIEF	x
CHARGING	x
4 kV	x
NESW	x
120 VAC	x (also CRIDs)
MAIN STEAM	x
600 VAC	x
Not reviewed	AIR Recirc / Hydrogen Skimmers
Not reviewed	Containment
Not reviewed	Ice Condenser



Cook Nuclear Plant
Nuclear Generation Group

Restart Meeting

July 9, 1998

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PRESENTATIONS

- Restart plan status (P. Gora)
- NRC submittals (M. Kelly)
- Ice condenser status (P. Schoepf)
- Containment spray status (D. Powell)
- Programmatic assessment
  - calculations (K. Baker)
- Functional area assessments
  - production engineering (K. Baker)
  - maintenance (J. Boesch)

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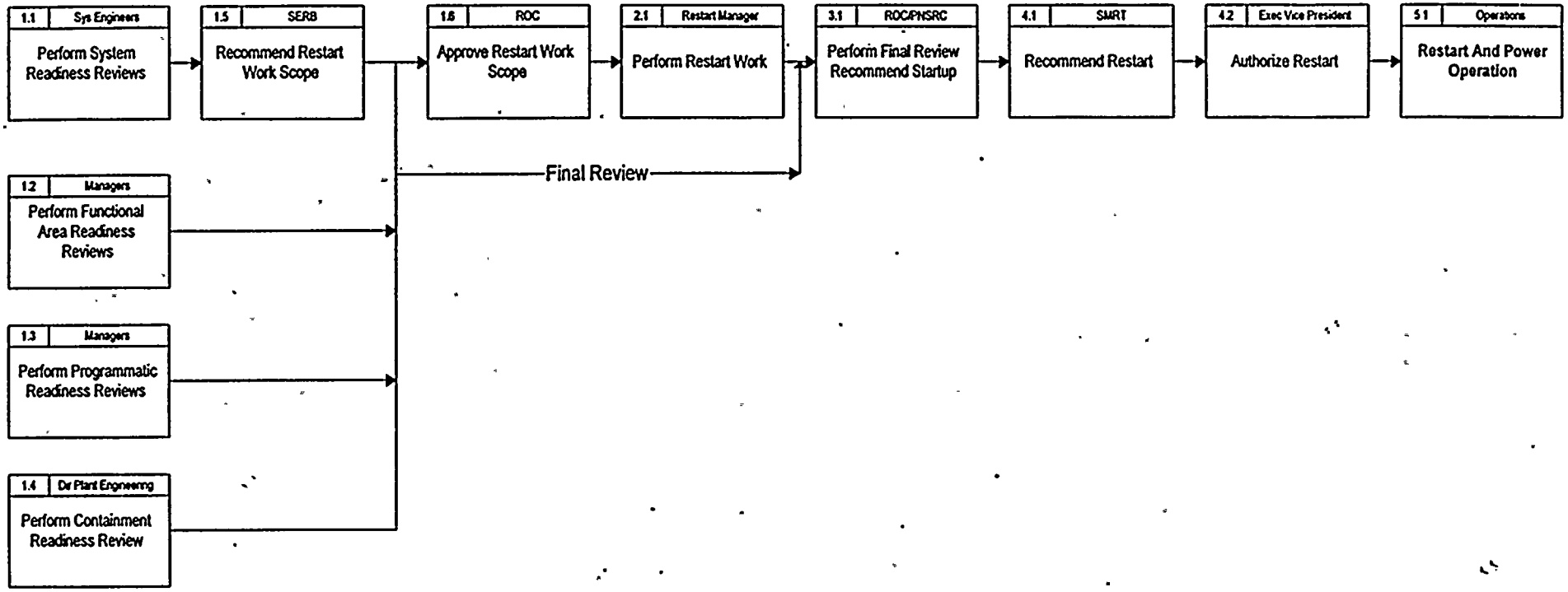
RESTART PLAN STATUS

Phillip Gora

RESTART VISION

- Develop the "right picture" for our people, programs, and plant
- Leverage the lessons learned and values acquired during restart to succeed in the future
- Instill a culture of individual accountability and teamwork for identifying and addressing problems
- Perform the corrective and preventive maintenance activities and surveillances required to effectively operate the plant through the next fuel cycle
- Develop a thorough understanding of the importance of maintaining and controlling our design and licensing basis
- Maintain a healthy workforce that is committed to the future success of Cook Nuclear Plant
- Make effective use of our financial and time resources

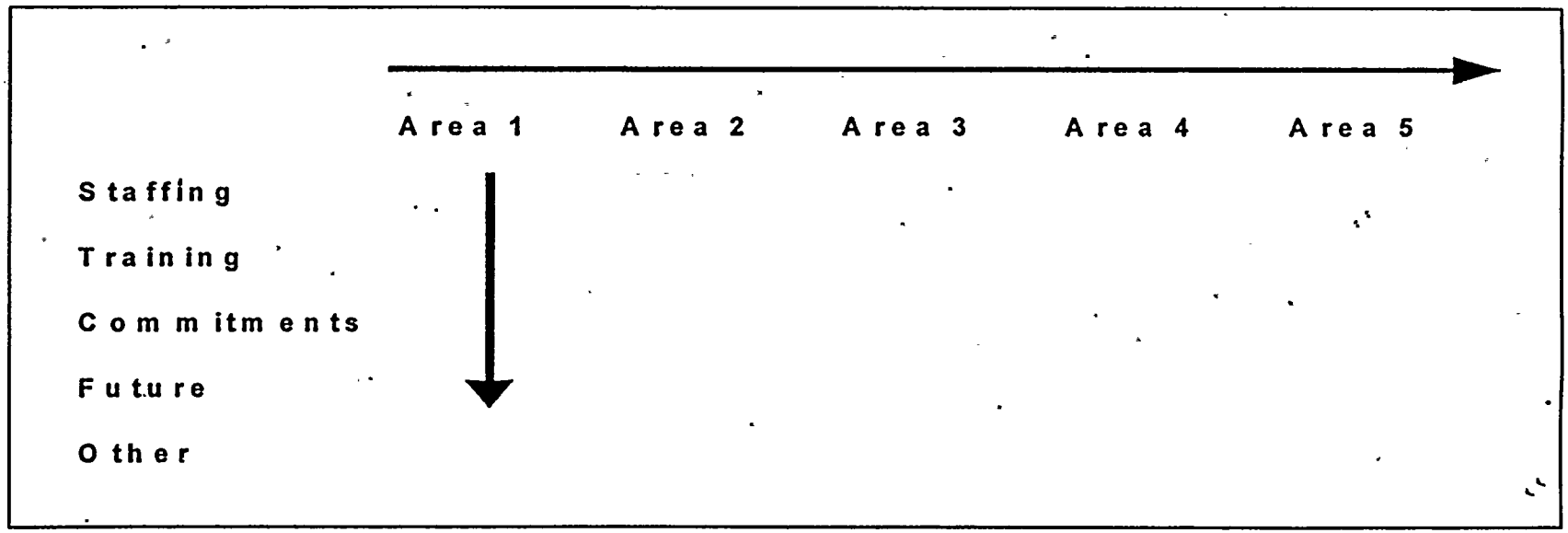
RESTART PROCESS



Phase 1	Phase 2 - Perform restart work	Phase 4
Discovery (Complete)	Phase 3 - restart package closure	Perform startup activities

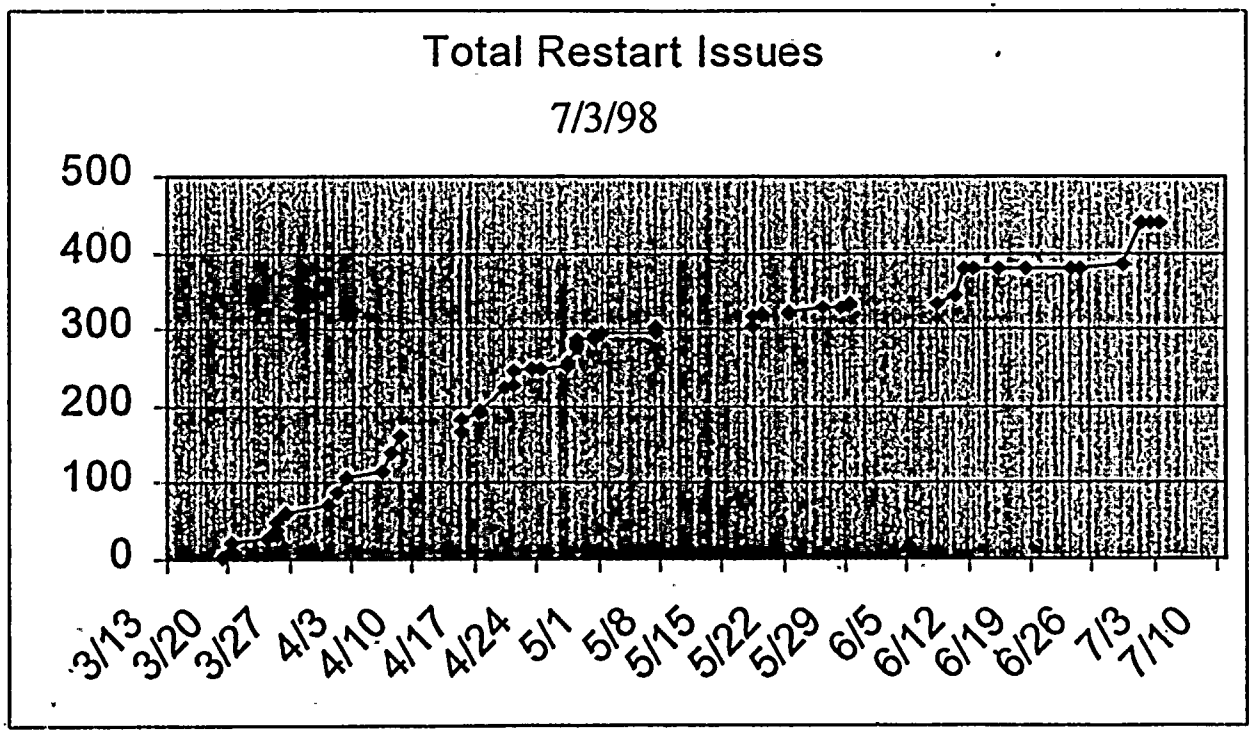
PHASE 1 - DISCOVERY

TYPICAL FUNCTIONAL AREA ASSESSMENT



1.6	ROC
Approve Restart Work Scope	

PHASE 2 - RESTART WORK



System and containment assessments	336
Programmatic assessments	15
Functional assessments	93
Regulatory	3
Total restart issues	**447**

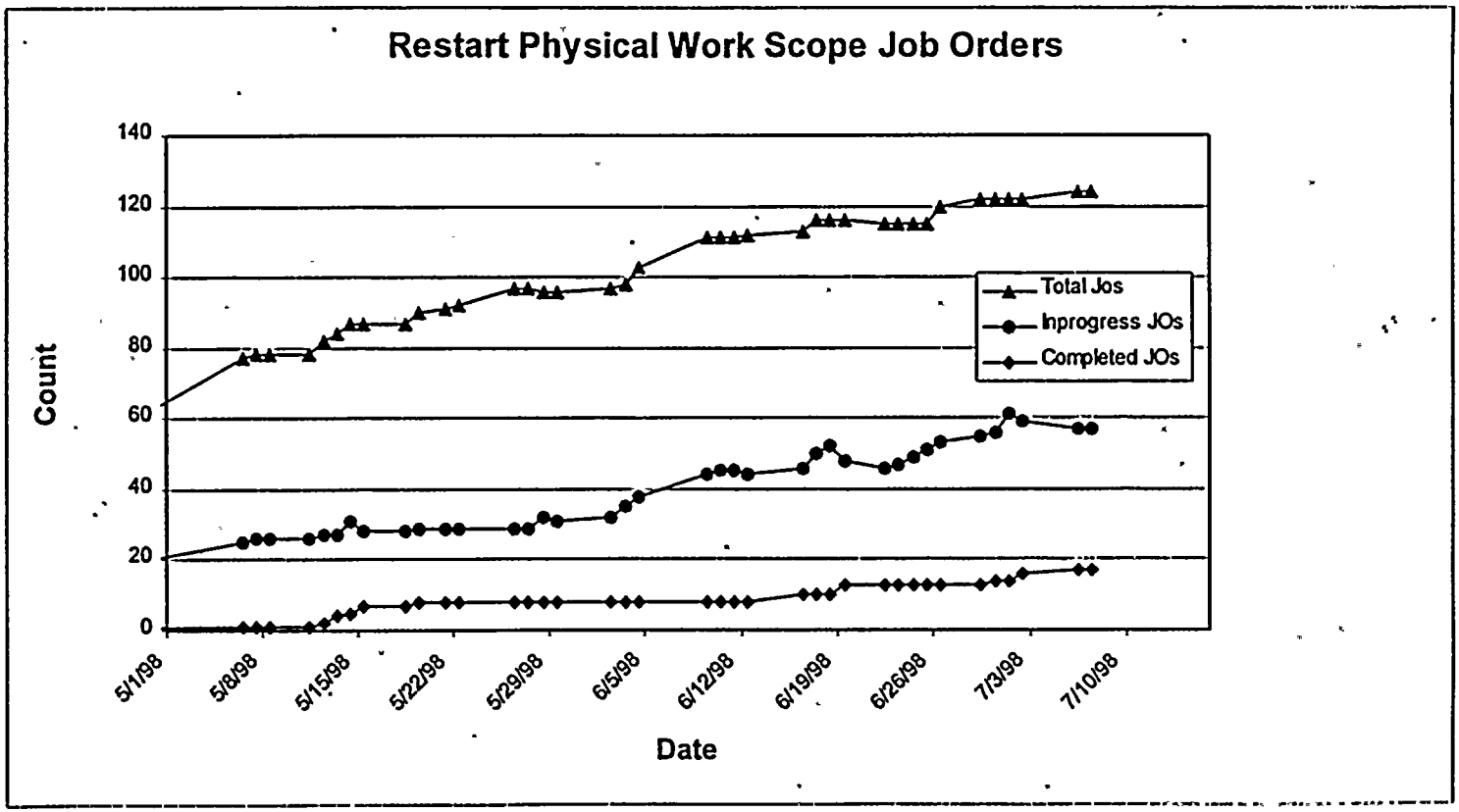
2.1	Restart Manager
Perform Restart Work	

RESTART FOCUS ITEMS

- Ice condenser
- Containment spray
- Cable issues

2.1	Restart Manager
Perform Restart Work	

PHASE 2 - RESTART WORK



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NRC SUBMITTALS

Mark L. Kelly

Licensing Engineer

NRC SUBMITTALS

- Hydrogen recombiner
  - removes the term "immediately"
  - submitted March 3, 1998
- Boric acid concentration reduction
  - reinstates previous technical specifications
  - submitted June 10, 1998

NRC SUBMITTALS

- Surveillance interval extensions
  - steam generator eddy current testing
  - other surveillances
- Response to 2.206/50.54(f) letter
  - docketed revised submittal date
  - July 22, 1998

POTENTIAL SUBMITTALS

- Issues that may result in submittals
  - cable routing issues
  - containment spray pump vibration
  - sump pH
  - hydrogen analysis
  - Westinghouse safety evaluation (SECL)

Safety eval Check list - 50.59

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ICE CONDENSER STATUS

Paul Schoepf

Mechanical Systems Manager

ICE CONDENSER STATUS

- History
- Scope
- Schedule logic
- Project status

HISTORY

ICE CONDENSER INSPECTION

- Surveillance program
- Maintenance program
- Design basis maintenance
- Corrective action

HISTORY

DECISION TO THAW

- Ice weights
- Basket integrity
  - basket damage
  - coupling screws
  - hold down bar welds
- Flow passages
- Debris

HISTORY

BROAD CORRECTIVE ACTION

- Thaw ice condenser
  - remove debris, inspect, repair, refurbish, refill
  - baseline materiel condition
  - baseline surveillances
- Reconstitute requirements and bases and incorporate into procedures and practices

BASKET COUPLING SCREWS

- Problem
  - missing or damaged screws
- Action
  - metallurgical evaluation
  - inspections and reinstallation
  - surveillance and maintenance techniques
  - future inspections
- Result
  - screws installed per design, acceptability confirmed

BASKET DAMAGE

- Problem
  - dents, folds, ligaments, top rim
- Action
  - "detrimental damage" definition
    - (50.59, design change)
  - inspect, repair, and replace
  - techniques, contractor oversight, training, inspections following future maintenance
- Result
  - basket condition within approved design

DEBRIS

- Problem
  - foreign material in ice bed
- Action
  - thaw ice condensers, remove debris
  - strict QC on ice production
  - standards, training
  - pre-fill basket inspections
  - oversight
- Result
  - ice beds free of debris

GLYCOL HANGERS

- Problem
  - design non-conformances
- Action
  - capture as-built information
  - revisit design criteria
  - design change to redefine design criteria
  - potential hanger modifications
- Result
  - glycol support system installed per design

HOLD DOWN BAR WELDS

- Problem
  - weld failures, latent defects
- Action
  - visual inspections
  - remove basket bottoms
  - non-destructive exams
  - inspection, repair, replacement
- Result
  - hold down bars per design

FLOOR SLAB

- Problem
  - possibility of water in slab
- Action
  - defrosts
  - examine water content
  - drainage modification
- Result
  - floor ready for freeze

SHOCK ABSORBERS

- Problem
  - damaged bags, foam, and mesh
- Action
  - removed bags for complete inspection
  - replacing shock absorbers with air boxes (except entrance end wall)
  - future protection, inspection
- Result
  - shock absorbers replaced with later generation design air boxes

SCHEDULE LOGIC

- Containment preps and temporary systems
- Thaw and clean
- Inspections, refurbishments, and technical issue resolution
- Revisit surveillance basis and procedures
- Chill ice condenser and reload ice
- Final installations and as-left surveillances
- Operability

SCHEDULE CHALLENGES

- Floor slab
- Glycol hangers
- Ice production
- Ice reload efficiency
- Repair / refurbishment production

PROJECT STATUS

- Unit 1 ice condenser thawed
  - inspections
  - issue resolution
  - refurbishments
- Ice production and storage
- Surveillance basis research / procedures
- Preparations for unit 2 thaw

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CONTAINMENT SPRAY (CTS) ISSUES RESOLUTION PROJECT

David F. Powell

CTS Issues Resolution Project Manager

CTS ISSUES RESOLUTION

- Problem: issues challenged CTS design basis
- Sources
  - containment spray SSFI
  - SERB walkdowns and readiness reviews
  - safety analysis upgrades
  - DBD and UFSAR review processes
  - EOP and NOP review processes

CTS ISSUES RESOLUTION

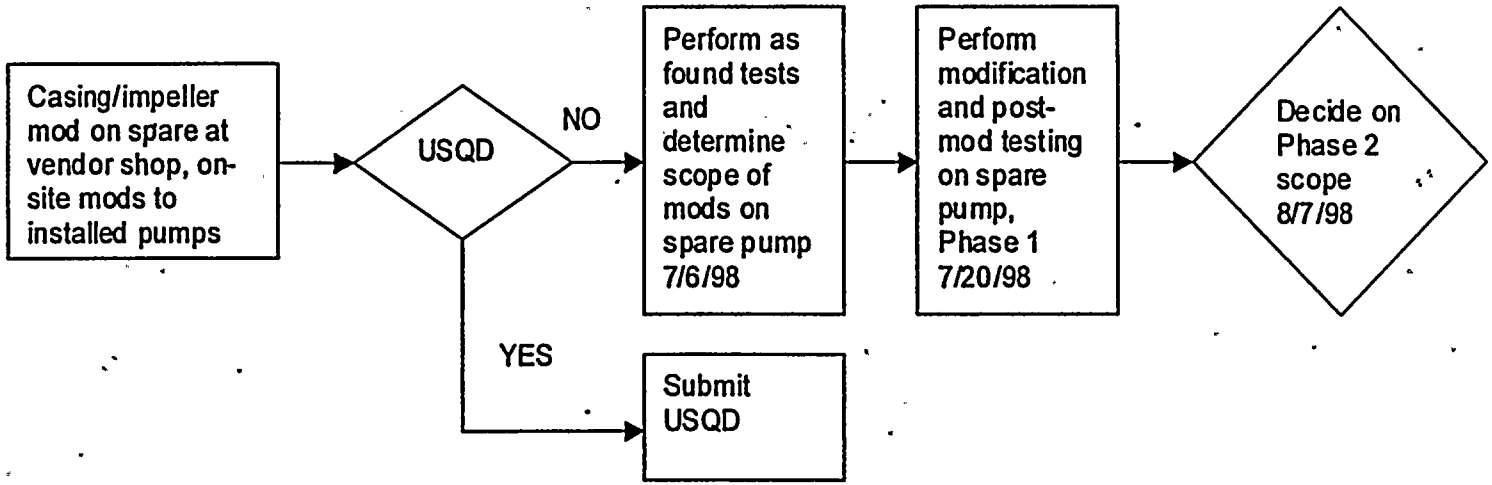
- Action: assemble interdisciplinary project team
  - source listing of known CTS issues
  - review and prioritize
  - identify potential resolution paths and key decision points
  - identify design change or regulatory involvement required

CTS ISSUES RESOLUTION

- Status: developed decision trees for key CTS issues to aid in resolution and planning
  - project management and communication tool
  - potential long lead items for restart (e.g. design changes or NRC submittals) identified
  - first step towards project plan and schedule when resolution paths are established
- Expected Result: CTS in conformance with design basis

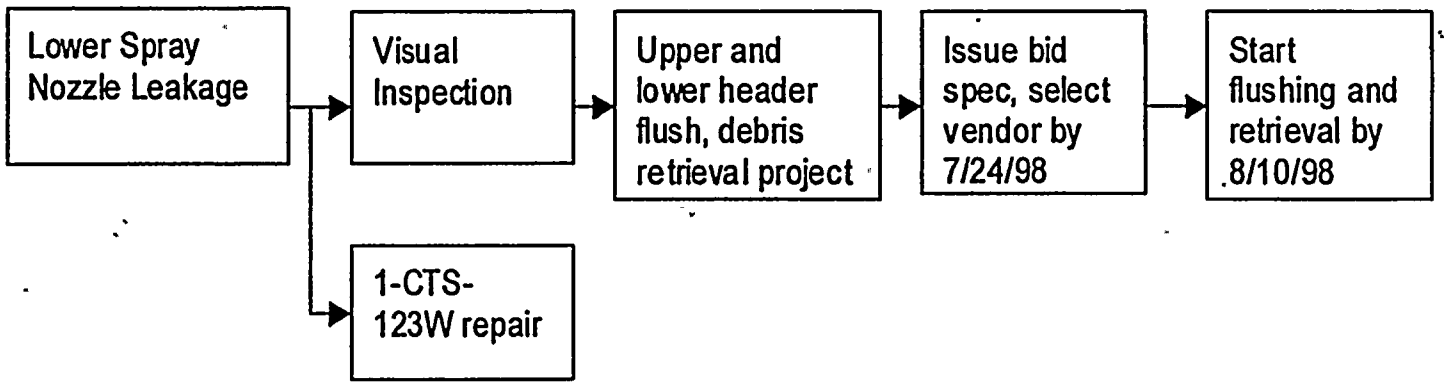
CTS ISSUES RESOLUTION

CTS Pump Vibration



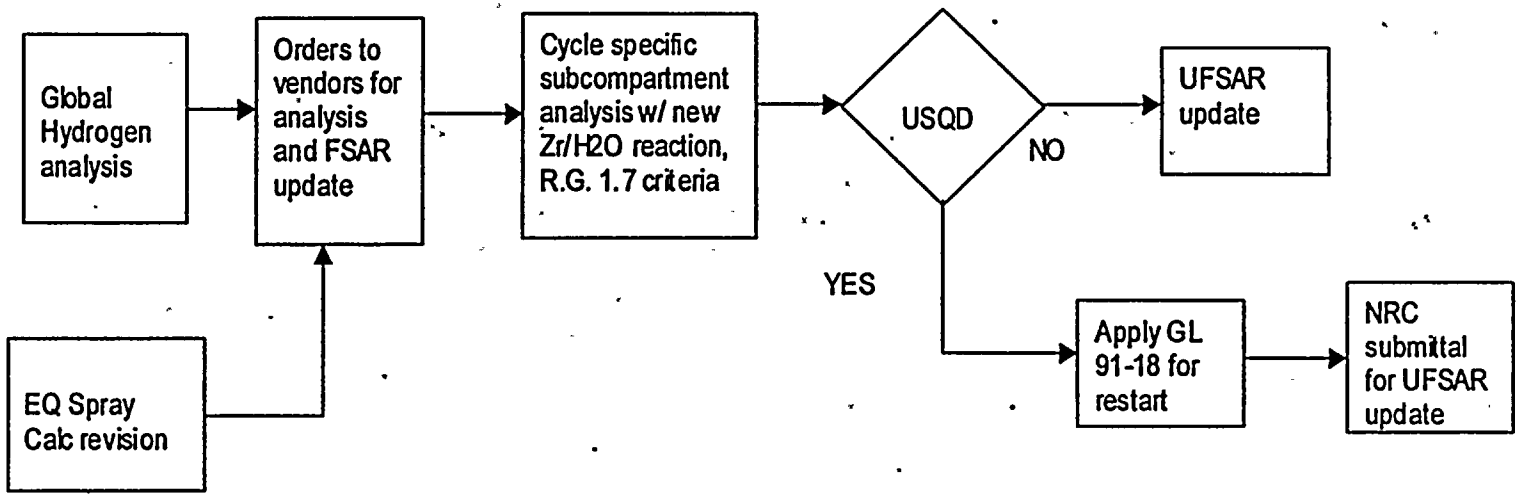
CTS ISSUES RESOLUTION

CTS Header Debris Removal



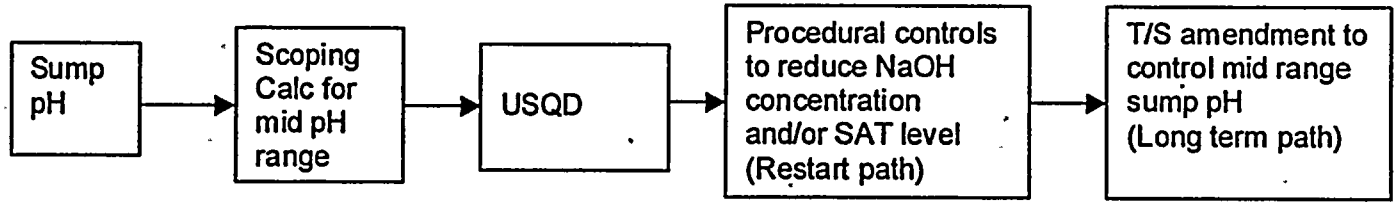
CTS ISSUES RESOLUTION

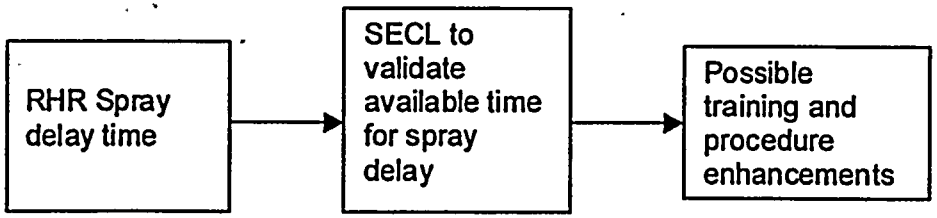
Hydrogen Analysis Issues



CTS ISSUES RESOLUTION

Other Safety Analysis Issues





CTS ISSUES RESOLUTION

- Future actions
  - establish resolution paths on each issue
  - optimize logic, advance key decision points
  - develop resource loaded project schedule
  - monitor progress, track commitments and remove obstacles

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CALCULATIONS PROGRAMMATIC ASSESSMENT

Kenneth R. Baker

Director of Production Engineering

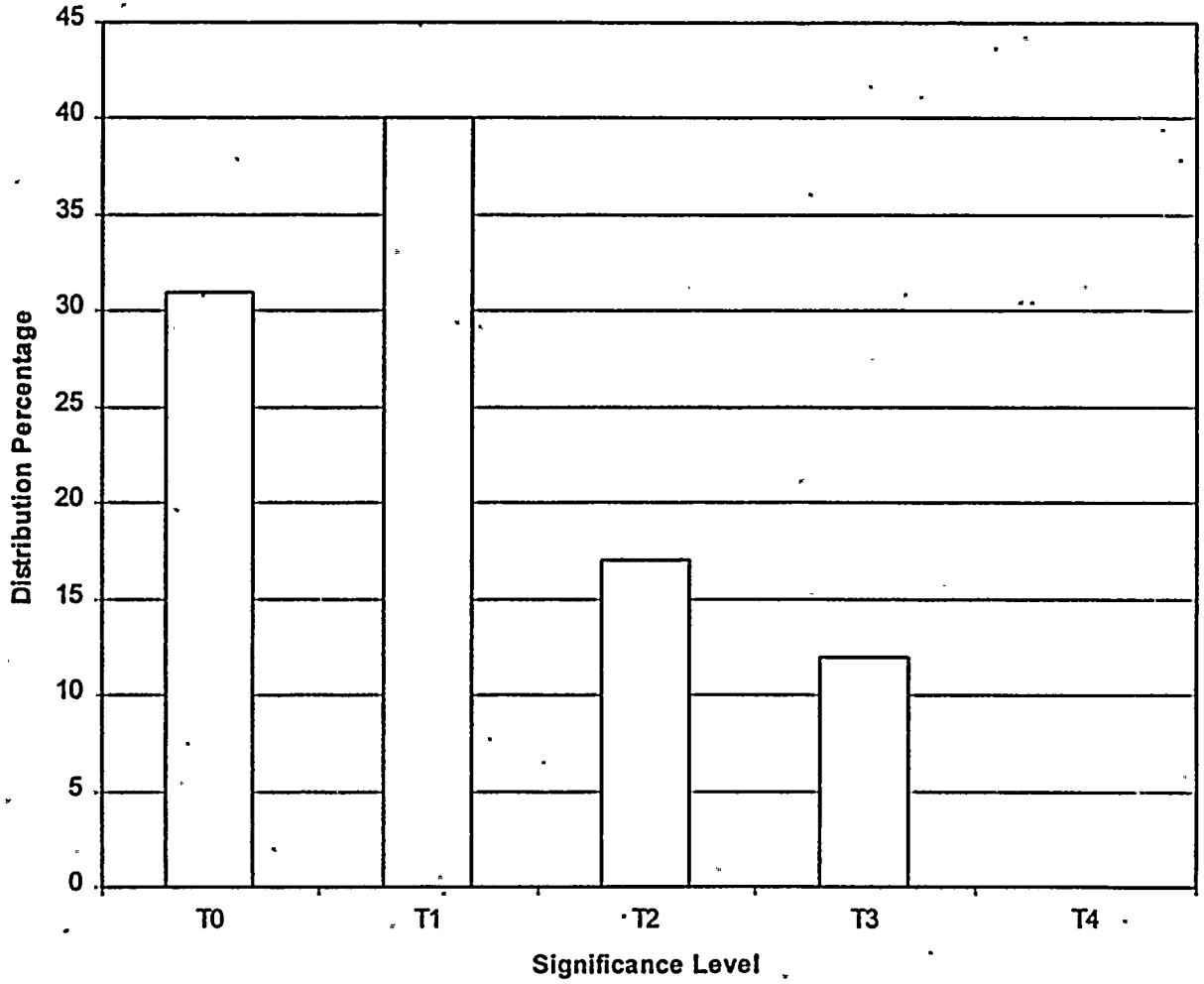
INTRODUCTION

- Short term assessment item
- Establish confidence
- Interim actions
- Improvements

OLD CALCULATIONS

- Problem
  - calculation deficiencies
- Action
  - independent review of 81 calculations
- Result
  - no inoperable conditions

OLD CALCULATIONS



System Functional Calculations

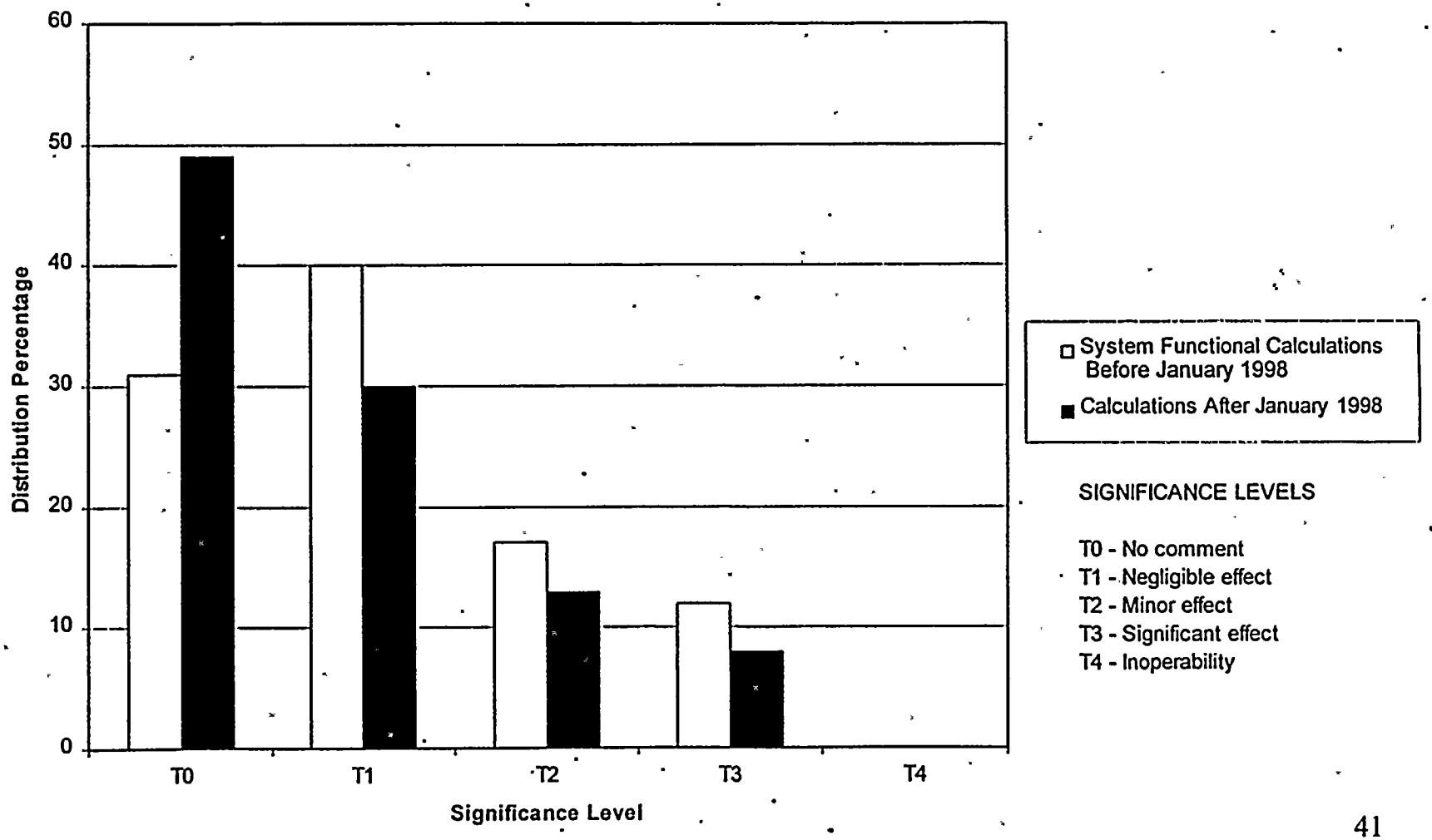
SIGNIFICANCE LEVELS

T0 - No comment
T1 - Negligible effect
T2 - Minor effect
T3 - Significant effect
T4 - Inoperability

CURRENT CALCULATIONS

- Problem
  - maintaining quality
- Action
  - focus on quality
  - peer review
  - contractor review
- Result
  - quality improved

CURRENT CALCULATIONS



FUTURE CALCULATIONS

- Problem
  - expectations and standards
  - accuracy
  - review thoroughness
  - uniformity
  - assumption validity

ACTIONS

- Established clear program ownership
  - responsibilities
  - accountabilities
- Revising procedure
- Conducting training
  - management involvement
  - standards and expectations

ACTIONS

- Establishing effectiveness monitoring program
- Program improvements

EXPECTED RESULTS

- Design and licensing basis maintained
- Quality improvements
- Indicators to monitor calculations and provide feedback

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PRODUCTION ENGINEERING FUNCTIONAL AREA ASSESSMENT

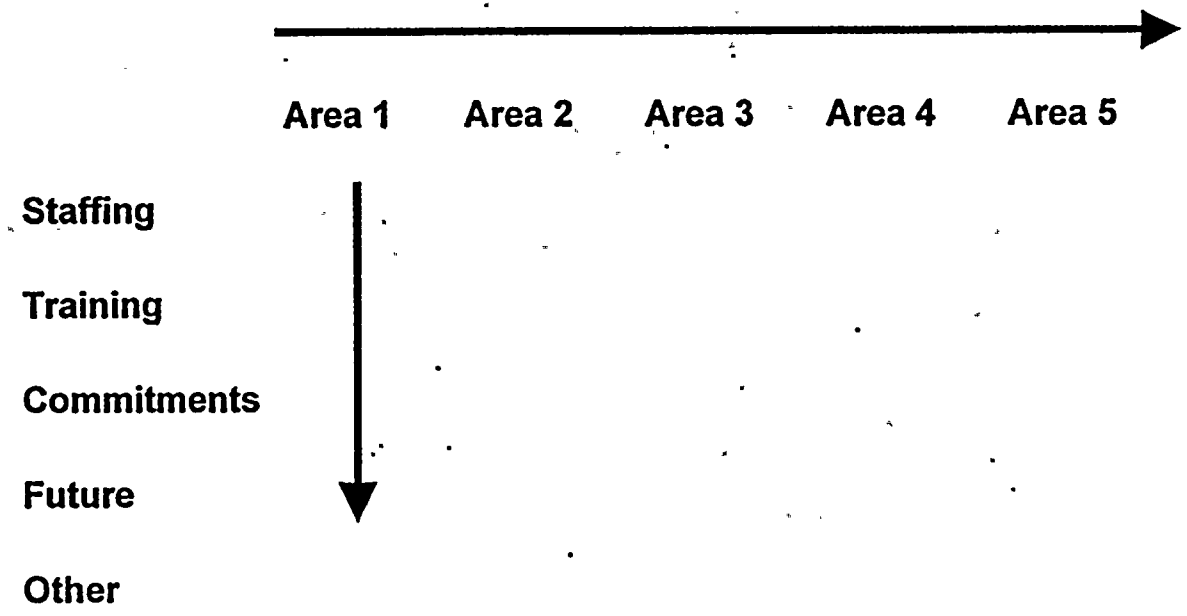
Kenneth R. Baker

Director of Production Engineering

SIX FUNCTIONAL AREAS

- Reactor engineering
- Preventive maintenance engineering
- Instrument and controls engineering
- Mechanical component engineering
- Performance test engineering
- Materials management

FUNCTIONAL AREA ASSESSMENT



FUNCTIONAL AREA ASSESSMENT RESULTS

Reactor Engineering

RESTART ITEMS

(examples)

- Problem
  - time critical information
- Action
  - assess and improve process
- Result
  - design and licensing basis maintained

RESTART ITEMS

(examples)

- Problem
  - low power physics training
- Action
  - provide familiarization training
- Result
  - event free startup

RESTART ITEMS

(examples)

- Problem
  - flux map data transfer changes
- Action
  - practice flux map data transfer
- Result
  - efficient flux map data transfer

RESTART ITEMS

(examples)

- Problem
  - reactivity management program document
- Action
  - formalize and roll out program
- Result
  - improved knowledge
  - event free startup
  - procedure based program

RESTART ITEMS

(examples)

- Problem
  - startups after extended outages
- Action
  - utilize experience from other utilities
- Result
  - event free startup

NON-RESTART ISSUES

(examples)

- Additional self assessments
- Training
  - codes used in core design and licensing
  - continuing education program

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MAINTENANCE FUNCTIONAL AREA ASSESSMENT

John Boesch

Maintenance Superintendent

ASSESSMENT AREAS

- Conduct of maintenance
- Work control process
- Corrective action process
- Procedures
- Training

CONDUCT OF MAINTENANCE

AREA SUB-TOPICS

- Pre-job briefs
- Procedure use and adherence
- Logs and records
- Shift turnovers
- Control of contractors
- Staffing adequacy

RESTART ITEM

- Problem
  - formal procedure for shift turnover
- Action
  - develop a formal procedure
  - conduct briefings
- Result
  - improved shift turnover communication

WORK CONTROL PROCESS

AREA SUBTOPICS

- Planning effectiveness
- Scheduling effectiveness
- Materiel condition

NON-RESTART ITEM

- Problem
  - planning process issues
- Action
  - develop planner training program
  - track, trend, and assess performance
- Result
  - improved efficiency

NON-RESTART ITEM

- Problem
  - scheduling process issues
- Action
  - improve the process and procedures
  - tracking and trending
- Result
  - improved effectiveness

NON-RESTART ITEM

- Problem
  - aggregate impact of minor equipment deficiencies
- Action
  - increased effort to reduce minor deficiencies
  - training
  - tracking and trending
- Result
  - improved materiel condition