

*Doing it right ...
Every step of the way.*
COOK NUCLEAR PLANT

American Electric Power

Meeting with

Nuclear Regulatory Commission

Discuss Transition to Oversight Process

Restarting D. C. Cook
February 15, 2000



Cook Activities Impacting Participation in Oversight Process

- **Shut Down and Depressurized CNP 1997**
- **Detailed Assessment of Safety Systems and Fundamental Programs**
- **De-fueled July-August 1999**
 - Focus workforce on restart work
 - Safety given priority over production
 - Allowed comprehensive actions to improve safety-system performance
- **Overhauled Plant Processes Critical to Safety**
 - CAP
 - Design Control
 - ECP

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Implementation of Oversight Program - Bases for Proposal

- **Cook Focused on Safe Return of Units**
- **Recognition of Some Deferral for Program Implementation**
- **Evaluated Implementation Challenges**

Historical Data

Cornerstone	Performance Indicator	Availability	Reliability	Collection Resource
Reactor Safety - Initiating Events	Reactor Safety - Unplanned Scrams	B	B	B
	Reactor Safety - Scrams with Loss of Normal Heat Removal	B	B	B
	Reactor Safety - Unplanned Power Changes	B	B	B
Reactor Safety - Mitigating Systems	Emergency Power - 2 EDGs (per Unit)	B	B	B
	Pressurized Water Reactor - High Pressure Injection System (HPSI)	B	B	B
	Pressurized Water Reactor - Heat Removal System (AFW)	R	B	B
	Residual Heat Removal System (RHR)	B	B	B
	Safety System Functional Failures	B	B	B
Reactor Safety - Barrier Integrity	RCS Activity	B	B	B
	RCS Leakage	B	B	B
	Containment Leakage	B	B	B
Emergency Preparedness	Emergency Preparedness - Drill/Exercise Performance	G	G	G
	Emergency Preparedness - ERO Drill Participation	G	G	G
	Emergency Preparedness - Alert and Notification System	G	G	G
Occupational Radiation Safety	Occupational Radiation Safety - Occupational Exposure Control Eff.	Y	R	Y
Public Radiation Safety	Public Radiation Indicator - RETS/ODCM Radiological Effluents	G	G	G
Safeguards	Physical Protection - Protected Area Equipment	Y	G	G
	Physical Protection - Personnel Screening Program	G	G	G
	Physical Protection - FFD/Personnel Reliability Program	G	G	G

Collection Barriers

- R** High
- Y** Medium
- G** Low
- B** N/A

Historical Data - Observations

- **Operational Data Not Available**
- **Emergency Preparedness Data Appears to be Available**
- **Occupational Radiation data was kept in our old CAP - Unreliable and Difficult to Extract**
- **Public Radiation Safety and Safeguards Data Appears to be Available**

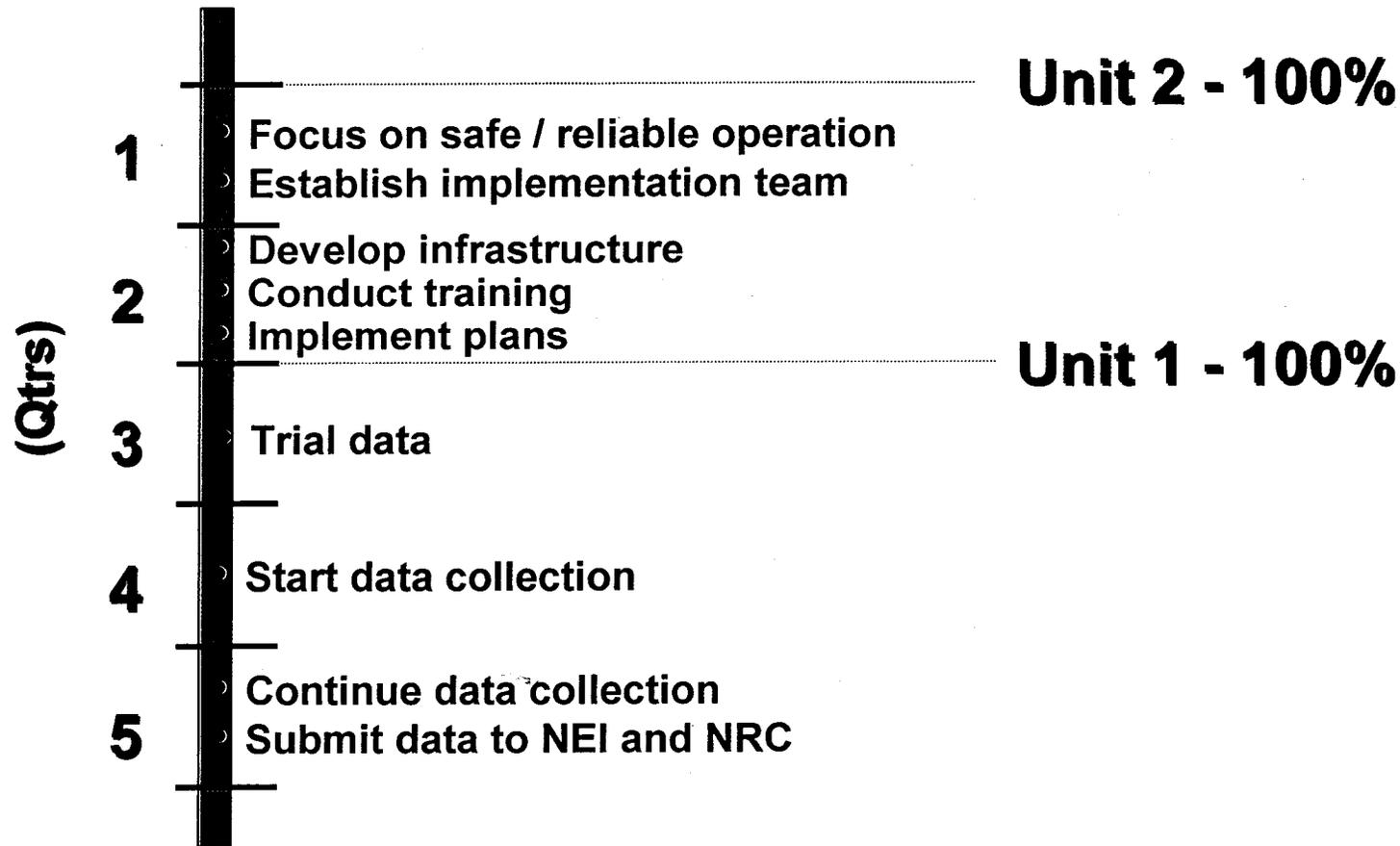
Historical Data at this time not meaningful

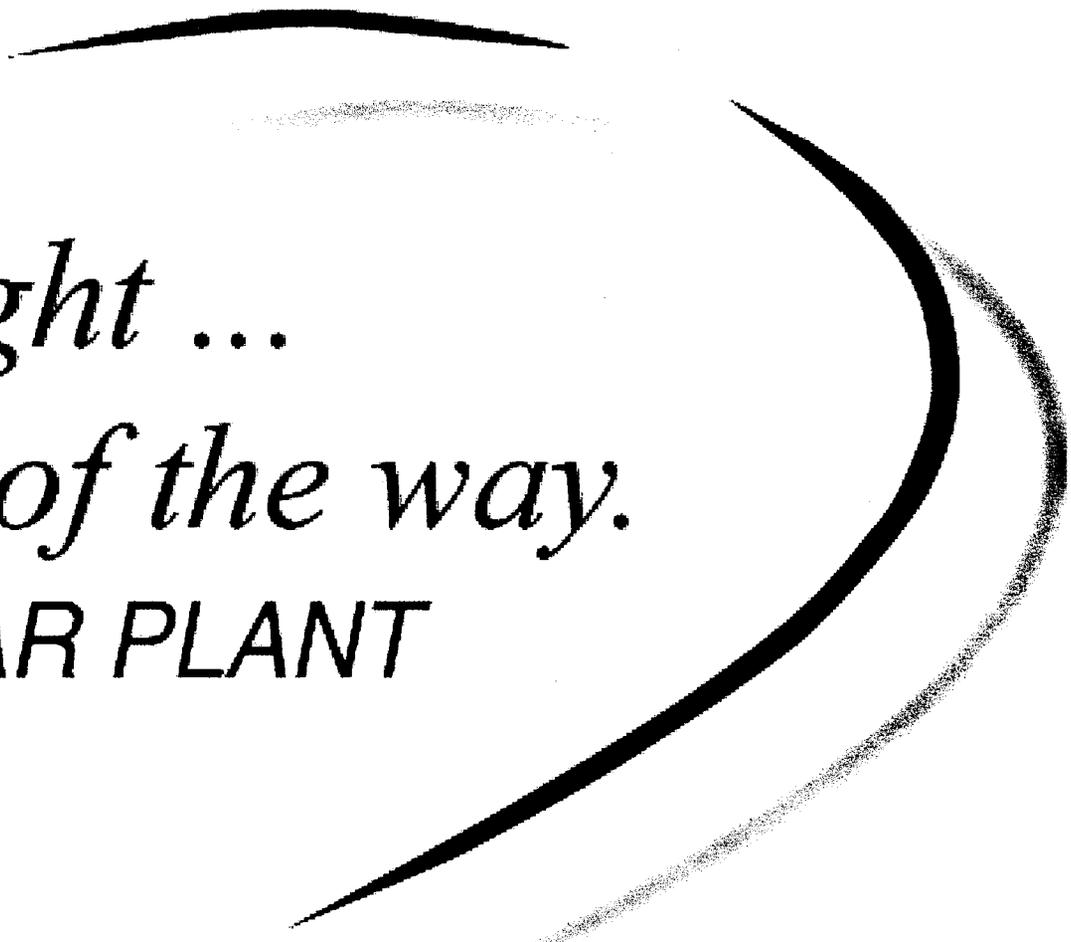
Implementation Considerations

- **Establishing Data Collection/Validation Organization and Processes (e.g., 50.9)**
- **Procedure Development**
- **SDP Development**
- **Safety Distraction**
 - PRA Modeling
 - Leadership focus for implementation

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Proposed Implementation Plan & Schedule





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