

Indian Point Units 2 & 3  
*NRC Power Uprate Meeting*

Rockville, Maryland

February 13, 2003



Enclosure 2

# Agenda

- Introduction and Overview
- IPEC Power Uprate Project Overview
- Addressing Industry Operating Experience
- Analysis Methodology
- License Application Request Development
- Open Discussion



# Introduction and Overview

- Introductions
- Meeting Objectives



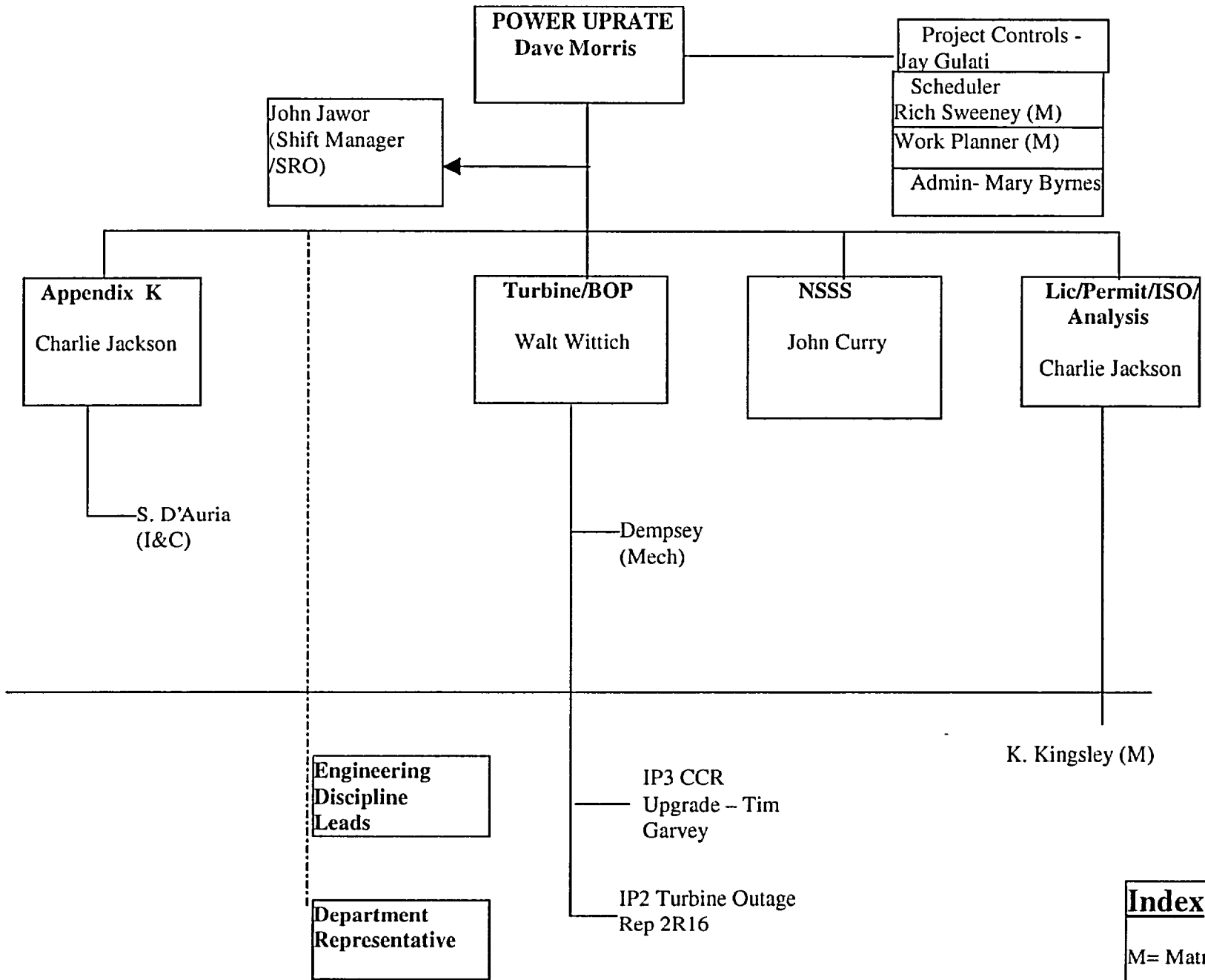
# Indian Point Power Uprate Project Overview

- Uprate Plans/History
- Power Uprate Organization
- Project Planning
- Scope
- Top Level Schedules



## *Power Uprate Plans/History*

- IP3 Appendix K 1.4% Uprate December 2002
  - 3025 to 3067 MWt Reactor Thermal Power
- IP2 Appendix K 1.4% Uprate 2 Quarter 2003
  - 3071.4 to 3114.4 MWt Reactor Thermal Power
- IP2 Stretch Uprate 3.3% Fall 2004
  - 3114.4 to 3216 MWt Reactor Thermal Power
- IP3 Stretch Uprate 4.7% Spring 2005
  - 3067 to 3216 MWt Reactor Thermal Power



# *Project Planning*

- Indian Point Project Implementation
- Entergy Fleet Schedule
- Indian Point Submittal Schedule
  - Indian Point 2 - 2/1/2004
  - Indian Point 3 - 6/7/2004



# *Scope*

## **IP2 Stretch**

- New HPT Components
- MSR Internals
- Cooling Upgrades
  - Main Power Transformers
- Fuel Mechanical Design
- Increased Boron

## **IP3 Stretch**

- New HPT Components
- MSR Internals
- Cooling Upgrades
  - Main Power Transformers
- CCR Upgrades
- Fuel Mechanical Design







# Addressing Industry Operating Experience

- INPO SER 5-02



# Analysis Methodology

## IP2

- BE SBLOCA
- Non LOCA Safety Analysis - RETRAN
- Improved Performance Analysis and Design Model – PAD 4.0
- MULTIFLEX 3.0

## IP3

- Non LOCA Safety Analysis - RETRAN
- Improved Performance Analysis and Design Model – PAD 4.0
- MULTIFLEX 3.0
- Alternate Source Term



# License Application Request (LAR) Development

- Lessons Learned – Past Submittals
- Requests For Additional Information (RAIs)
- NRC Power Uprate Web Page



# Nuclear Regulatory Commission Guidance

- Recent Extended Power Uprate Guidance Document (Review Standard)
- Applicability of Guidance on Stretch Uprates
- Insights?



# Entergy Fleet Power Uprate Perspective

Years indicate actual or expected MW online

Plant	YUOR	SPO	EDU
ANO-1 <sup>1</sup>			
ANO-2			2002
Grand Gulf <sup>3</sup>	2002		
Indian Point 2	2003	2004	
Indian Point 3	2002	2005	
Waterford 3	2002		2005
Vermont Yankee			2004
River Bend <sup>2</sup>	2003	2002	
J.A. FitzPatrick <sup>5</sup>		1995	
Pilgrim <sup>4</sup>	2003		

<sup>1</sup> ANO-1 is currently studying the possibility of unit uprate

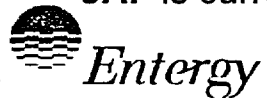
<sup>2</sup> RBS is currently studying the possibility of unit uprate

<sup>3</sup> GGNS is currently studying the possibility of unit uprate

<sup>4</sup> PNPS is currently studying the possibility of unit uprate

<sup>5</sup> JAF is currently studying the possibility of unit uprate

SHADING indicates project completed



# Open Discussion

