

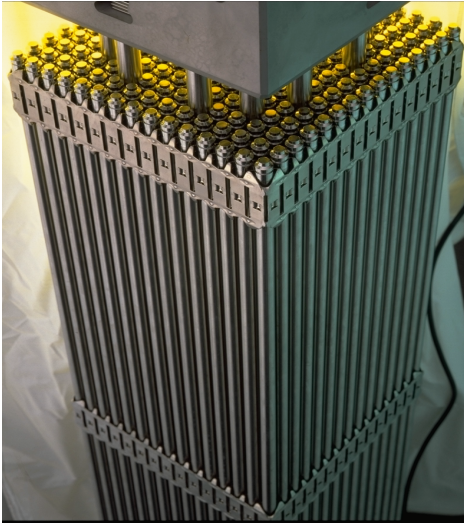
# ***Mt Athos Road Facility License Performance Review July 24, 2008***



*Enclosure 3*

- ▶ **Mount Athos Road (MAR) Site overview**
  
- ▶ **Our Operating Philosophy**
  
- ▶ **Environmental Health & Safety Accomplishments and Results (Period 04/06 – 04/08)**
  - ◆ **Overall EHS&L Program**
  - ◆ **ALARA improvements**
  - ◆ **Emergency Preparedness**
  - ◆ **Transportation Improvement**
  
- ▶ **Summary / Conclusion**

## **AREVA NP Inc – Lynchburg MAR Facility**



### **PWR Fuel Manufacturing**

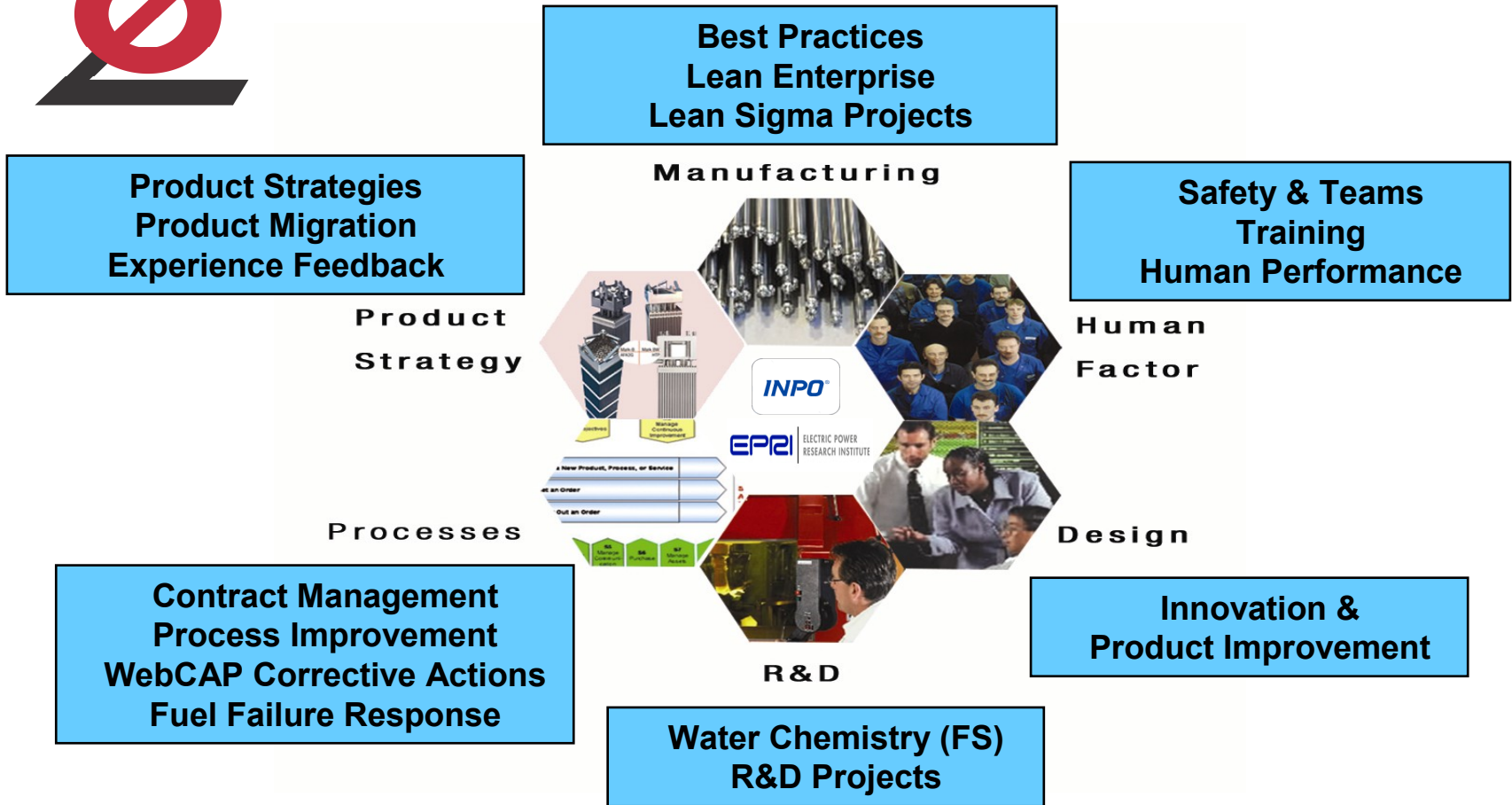
- **No Chemical Operations** : UO2 pellets received from the Richland, WA Facility
- **Rod loading and bundle assembly for US market** : B&W, Westinghouse and Combustion Engineering reactors

### **Nuclear Service Activities**

- **Reactor Support Services** : Service Equipment Refurbishment Facilities (SERF 3 and 4)
- **Activities include fabrication and refurbishment of contaminated and non-contaminated equipment**
- **Pump & Motor Service Center (SERF 5)**

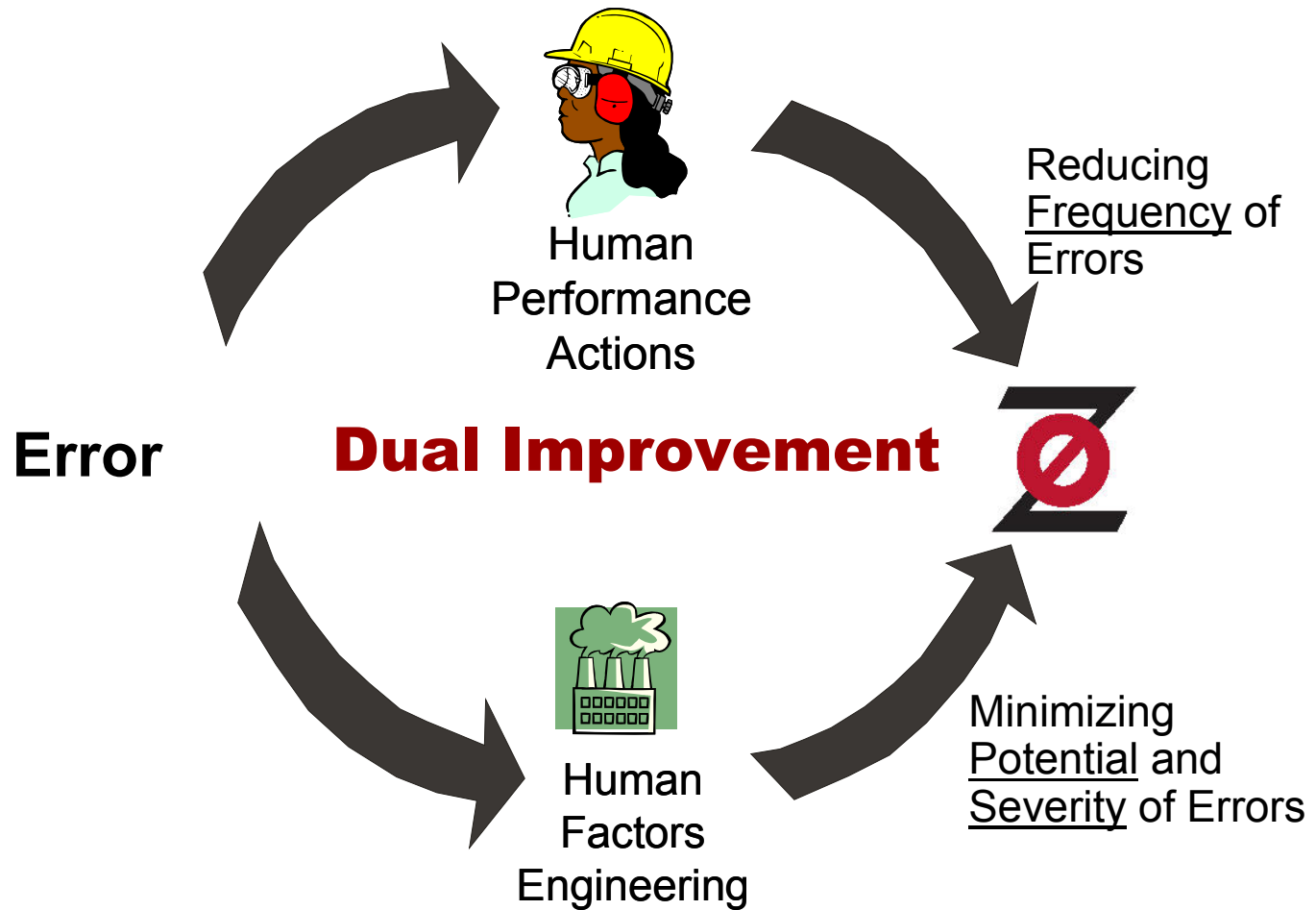


# Zero Tolerance for Failure (ZTF)



**ZTF Philosophy Drives the Various Aspects of the Operation to Achieve Excellence**

# *Human Performance Overall approach*



*Human Performance Dual Improvement  
Approach*

- ▶ **Overall Environmental, Health and Safety Program**
  - ◆ **Developed the Safety Culture : increase in employee participation and ownership for safety**
  - ◆ **Proactive approach deployed through risk management : understand and reduce risks for activities (nuclear, chemical, occupational, environmental safety)**
    - **Integrated Safety Analysis approved by the NRC for MAR facility in September of 2005**
    - **ISO 14001 achieved in 12/2005 and OHSAS 18001 certification achieved in 12/2006**
  - ◆ **Results :**
    - **No Item Relied On For Safety (IROFS) failures**
    - **Recordable Accident Rate reduced by more than 50% between 01/2006 and 04/2008**
    - **Met targets on improvement leading to conservation of natural resources and waste reduction**

### **▶ ALARA Improvements**

- ◆ Fuel rod downloading process : reduced total amount of dose associated with this operation by more than 50%**
- ◆ Developed improved ALARA protocol for the handling of contaminated equipment in SERF facilities – Includes enhanced procedure for the handling of DRPs.**
- ◆ Implemented decontamination hood in SERF-5 for Fuel Service Equipment**
- ◆ Completed several equipment / facility modifications :**
  - Ventilation system upgrade in SERF-4**
  - Shielding on rod scanner**
  - Steel plates under SERF-5 evaporator for shielding**

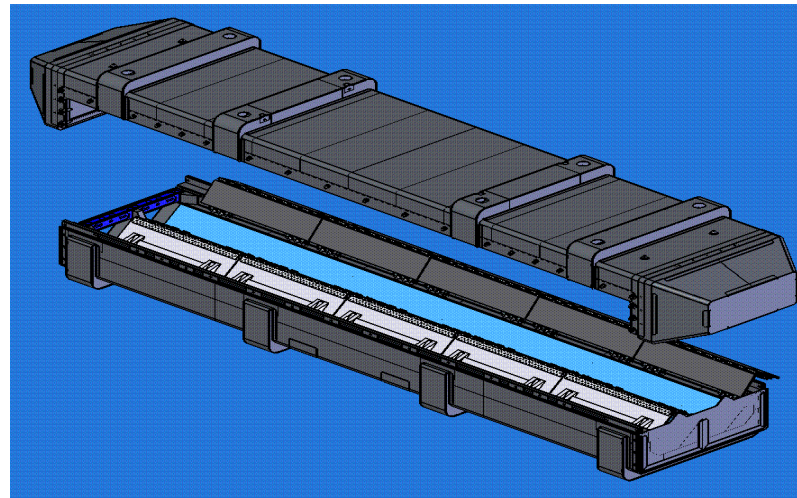
## **▶ Emergency Preparedness**

- ◆ Increased number of employees involved and trained to support First Aid and Fire Brigade response teams**
- ◆ Implemented electronic system for accountability during emergency drills**
- ◆ Increased training activities including interface with off-site responders: Concord and Rustburg Fire Department, Lynchburg General Hospital**
- ◆ Adopted and practiced Incident Command System for Fire Brigade during a simulated drill involving Concord Fire Department**
- ◆ Facility changes : new camera system, replaced and improved fire alarm system**



- ▶ **Transportation Process Enhancement (Equipment)**
  - ◆ **Established pre-shipment radiation survey activity thresholds.**
    - **Thresholds trigger additional management review**
    - **Drives requirement for additional decontamination, enhanced packaging and/or consideration for use of closed conveyance trailer**
  
  - ◆ **Added requirement to perform extensive surveys of equipment with the highest potential for contamination: Reactor Cavity, Below the Reactor Head, Spent Fuel Pool**

- ▶ **Transportation Process Enhancement (Fuel)**
  - ◆ **Designed and tested next generation of fuel shipping containers to meet 10 CFR 71 new requirements (MAP-12 container)**
  - ◆ **Obtained NRC license on 01/2008**
  - ◆ **Multi-million \$ program engaged to transition to new fuel shipping container fleet in 2009**



- ▶ **The Management at AREVA Mount Athos Road (MAR) is committed to conduct business in a manner that delivers leading Environmental, Health and Safety performance**
- ▶ **We are also committed to continuously improving in those areas, engaging the entire workforce on this path**
- ▶ **Conclusion of the NRC assessment, is confirmation that we continue to conduct our activities safely, protecting our employees, public health and the environment**
- ▶ **In line with AREVA philosophy and values, we will continue to place safety as our #1 priority. This a major condition for the sustainability of our industry**