# **PWR CHEMISTRY**

PHASE II

PWR CHEMISTRY
INTRODUCTION »

PWR CHEMISTRY
ENGINEERING »

PHASE III

PWR CHEMISTRY
ENGINEERING »

THERMAL HYDRAULICS
IN PWR FUEL »

**PHASE V** 

## **PRIMARY SIDE:**

- CHEMISTRY
  - PRIMARY CHEMISTRY EVOLUTION IN PWRS/VVERS »
  - ZINC CHEMISTRY IN PWR/VVER PLANTS »
- CRUD
  - PWR, BWR, VVER CORROSION PRODUCT GENERATION, ACTIVITY TRANSPORT AND DOSE RATE MITIGATION IN WATER COOLED NUCLEAR REACTORS »
  - CRUD IN PWRS/VVER FUEL > PART I > > PART II- FUEL ROD CRUD >
  - FUEL CRUD IN SWEDISH LIGHT WATER REACTORS (BWRS AND PWRS) »
- FUEL RELIABILITY
  - ▶ RADIOCHEMISTRY » → FUEL RELIABILITY I » → FUEL RELIABILITY II »

#### **SECONDARY SIDE:**

- HISTORICAL AND PRESENT ISSUES IN SECONDARY SYSTEM IN PWRS/VVERS »
- SECONDARY WATER CHEMISTRY IN VVERS »

#### PRIMARY AND SECONDARY SIDE

• PRIMARY AND SECONDARY CHEMISTRY IN VVERS »

# **PWR CHEMISTRY**

☐ PHASE I

PHASE II

5-10 YEARS EXERIENCE

PWR CHEMISTRY ENGINEERING »

PHASE III

FUEL INTRODUCTION »

THERMAL HYDRAULICS
IN PWR FUEL »

**PHASE IV** 

#### **PRIMARY SIDE:**

- CHEMISTRY
  - PRIMARY CHEMISTRY EVOLUTION IN PWRS/VVERS »
  - ZINC CHEMISTRY IN PWR/VVER PLANTS »
- CRUD
  - PWR, BWR, VVER CORROSION PRODUCT GENERATION, ACTIVITY TRANSPORT AND DOSE RATE MITIGATION IN WATER COOLED NUCLEAR REACTORS »
  - CRUD IN PWRS/VVER FUEL > PART I » >> PART II- FUEL ROD CRUD >>
  - FUEL CRUD IN SWEDISH LIGHT WATER REACTORS (BWRS AND PWRS) »
- FUEL RELIABILITY
  - ▶ RADIOCHEMISTRY » → FUEL RELIABILITY I » → FUEL RELIABILITY II »

## **SECONDARY SIDE:**

- HISTORICAL AND PRESENT ISSUES IN SECONDARY SYSTEM IN PWRS/VVERS »
- SECONDARY WATER CHEMISTRY IN VVERS »

### PRIMARY AND SECONDARY SIDE

• PRIMARY AND SECONDARY CHEMISTRY IN VVERS »

# **PWR CHEMISTRY**

PHASE I

PWR CHEMISTRY ADVANCED »

PHASE II

THERMAL
HYDRAULICS IN
PWR FUEL »

PHASE III

#### **PRIMARY SIDE:**

10+ YEARS

**EXPERIENCE** 

- CHEMISTRY
  - PRIMARY CHEMISTRY EVOLUTION IN PWRS/VVERS »
  - ZINC CHEMISTRY IN PWR/VVER PLANTS »
- CRUD
  - PWR, BWR, VVER CORROSION PRODUCT GENERATION, ACTIVITY TRANSPORT AND DOSE RATE MITIGATION IN WATER COOLED NUCLEAR REACTORS »
  - CRUD IN PWRS/VVER FUEL > PART I > > PART II- FUEL ROD CRUD >
  - FUEL CRUD IN SWEDISH LIGHT WATER REACTORS (BWRS AND PWRS) »
- FUEL RELIABILITY
  - RADIOCHEMISTRY » » FUEL RELIABILITY I » » FUEL RELIABILITY II »

### **SECONDARY SIDE:**

- HISTORICAL AND PRESENT ISSUES IN SECONDARY SYSTEM IN PWRS/VVERS »
- SECONDARY WATER CHEMISTRY IN VVERS »

#### PRIMARY AND SECONDARY SIDE

• PRIMARY AND SECONDARY CHEMISTRY IN VVERS »



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