

# A AREVA



# ***Presentation to the U.S. Nuclear Regulatory Commission***

**AREVA U.S. Enrichment Facility  
Site Selection Process & Progress**

**November 9, 2007**

## ▶ **Purpose**

**Identify a site that is socially and environmentally favorable and meets design and operational requirements for an enrichment facility**

## ▶ **Preferred Site Attributes**

- ◆ **Meets all project requirements**
- ◆ **Environmentally acceptable setting**
- ◆ **Site contributes to operational efficiencies**

## ▶ **Process Attributes**

- ◆ **Technically based & procedurally ordered**
- ◆ **Defensible (consistent, repeatable, transparent)**
- ◆ **Follow Corporate QA/QC protocol**

## ▪ 54 Sites were considered by AREVA

### Initial Screening

- 54 Sites reviewed using 4 criteria
- 41 sites moved forward

### PHASE I (Go/No-Go Screening)

- 41 Sites screened using 15 criteria
- 8 sites move forward

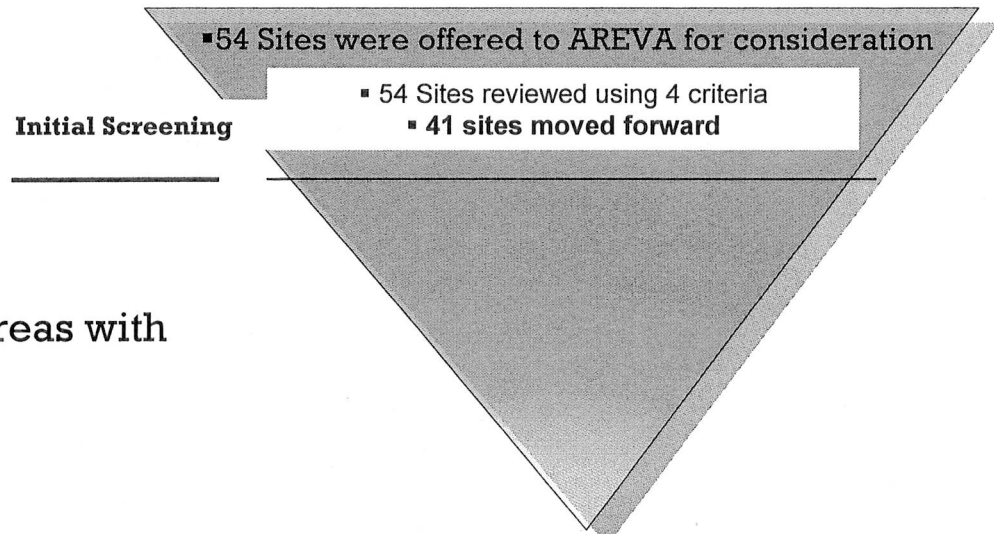
### PHASE II (Site Selection)

- Evaluating sites using 39 criteria
- Several alternative sites move forward

### FINAL PHASE

- Identify Preferred Site  
(evaluate in LA)

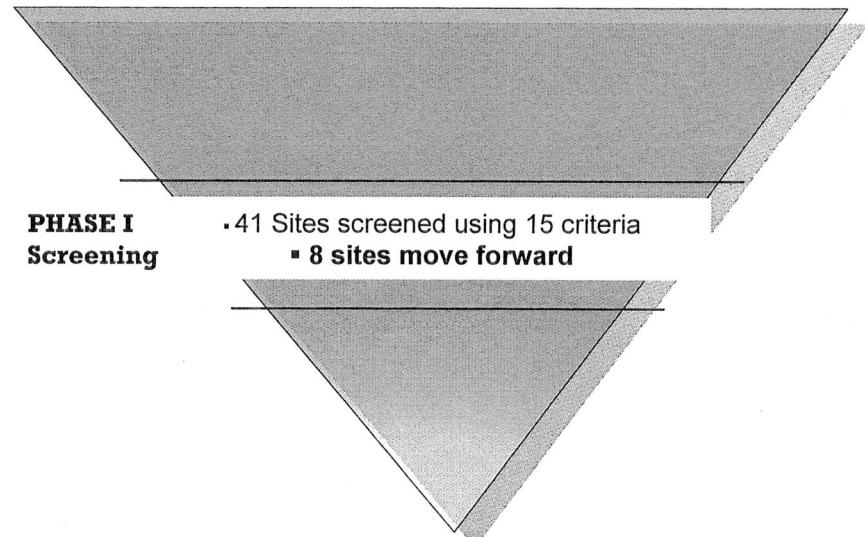
## ***Initial Screening Criteria***



- ▶ **Four Broad Criteria – Avoid areas with**
  - ◆ High seismic activity
  - ◆ Severe winter weather
  - ◆ High tornado frequency
  - ◆ Hurricanes and high flooding potential
- ▶ **41 of 54 sites passed forward to Phase 1 Screening**

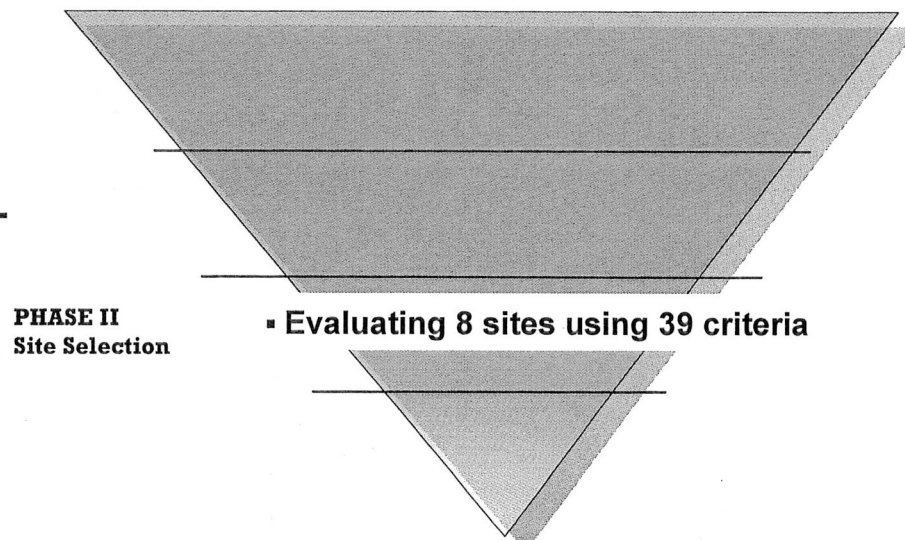
# Phase-I Screening Criteria GO/NO-GO Criteria

- ▶ Minimum seismic activity (4) (PGA, movement, no faults, no liquefaction)
- ▶ Stable geology (no karst)
- ▶ Sufficient site size
- ▶ Clear pathway to ownership
- ▶ Redundant electrical power supply
- ▶ Availability of site characterization data
- ▶ Avoid contaminated sites
- ▶ Avoid jurisdictional wetlands
- ▶ Avoid 500-yr floodplain
- ▶ Avoid threatened & endangered species and habitat
- ▶ Avoid sensitive resource areas (National parks, historical sites, Class I air quality areas)
- ▶ Avoid severe weather areas (tornados (NUREG/CR-4461), hurricanes, severe winter weather)



## ***Phase-II Site Selection Criteria (MAUA Process)***

- ▶ Evaluated 8 sites using Multi-Attribute Utility Analysis (MAUA)
- ▶ Criteria divided into three components
  - ◆ Key site/project requirements
  - ◆ Environmental acceptability
  - ◆ Operational efficiencies

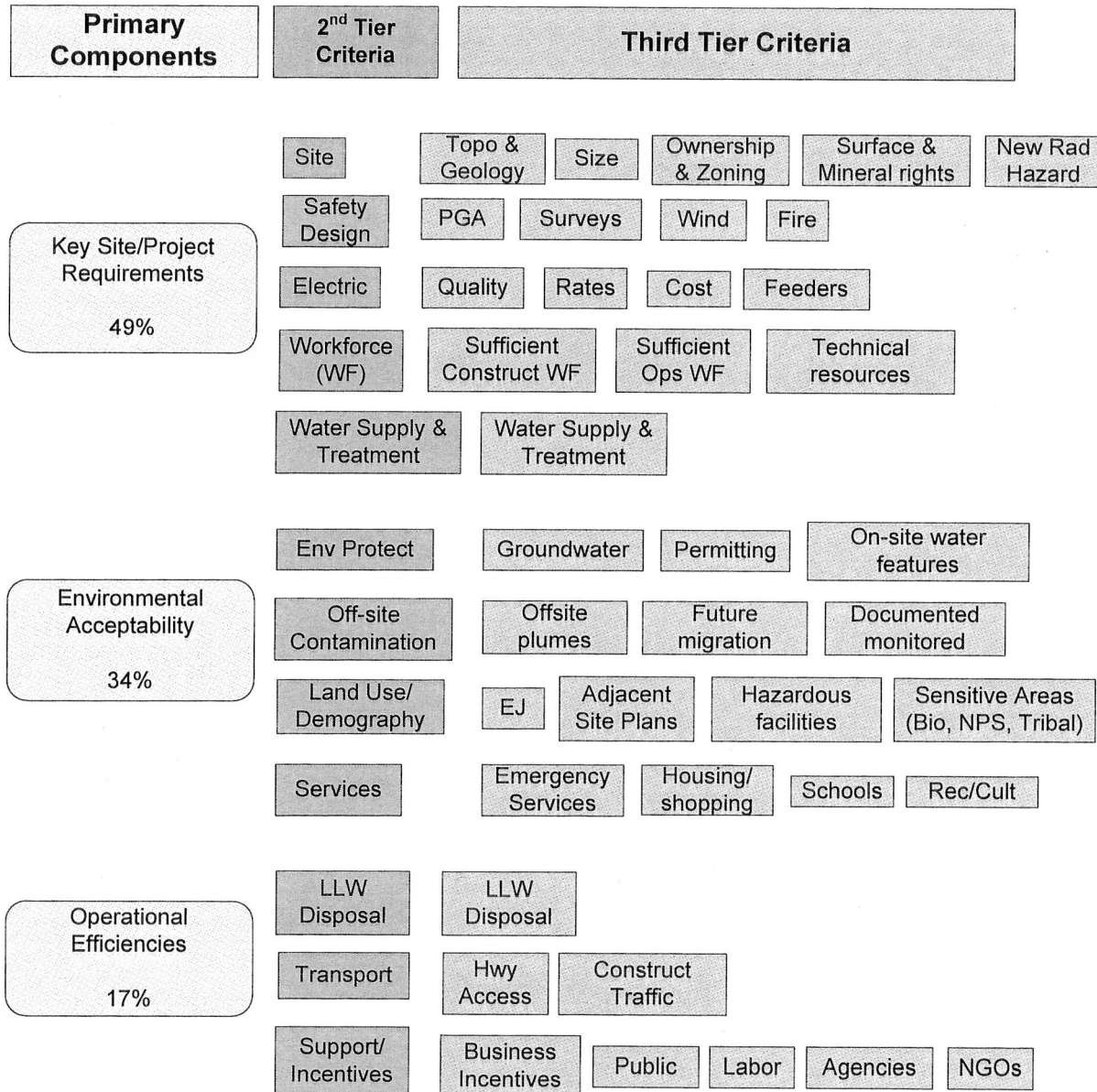


## ***Phase II Site Selection Process (MAUA Process)***

- ▶ **Identify key criteria and develop a hierarchy**
- ▶ **Weight criteria based on importance to site selection**
- ▶ **Develop scoring definitions (performance measures)**
- ▶ **Collect information**
- ▶ **Assign scores for each criteria by site**
- ▶ **Conduct MAUA analysis to obtain site score**



# Phase II Site Selection Criteria



# *Methods and Sources of Information*

## ▶ **Site Visits**

- ◆ **Met with site sponsors**
- ◆ **Conducted site inspections**
- ◆ **Met with elected officials**
- ◆ **Met with regulatory agencies**

## ▶ **Data provided by site sponsors**

- ◆ **Interviews**
- ◆ **Questionnaires**

## ▶ **Contacts with State and Federal agencies**

## ▶ **Reviewed existing reports and data sources**

- ◆ **Federal, State and Local**
- ◆ **Open technical literature**
- ◆ **Permits, Licenses, EISs**

## *Current Status of Evaluation*

- ▶ **Eight sites have been scored and ranked (preliminary)**
- ▶ **Final information gathering**
- ▶ **On schedule for preferred site decision by end of year**
- ▶ **Commence preparation of ER**
- ▶ **Submit license application by mid-2008**

# MAUA Preliminary Scoring

