



New Plants Update September 2009

This month:

- ▶ U.S. EPR™ DCA Progress Report
- ▶ Olkiluoto 3 Project Progress
- ▶ Flamanville 3 Project Progress
- ▶ Renewables Headlines
- ▶ Notable Quotes

Teresa Weinmeister
Communications, New Plants Deployment
AREVA NP Inc.

Send comments & suggestions to:
Tel: 434.832.3776

Teresa.Weinmeister@areva.com



-- Approved for external distribution --

The data contained herein are solely for your information and are not to be construed as a warranty or other contractual obligation.





U.S. EPR™ Design Certification: Progress Report



September Activities (thru September 18):

- ▶ Sept 1-2, NRC audit re: containment analysis
- ▶ Sept 2, NRC audit of calculation package related to Chapter 12 RAI response
- ▶ Sept 2-3, Meeting with NRC re: diversity and defense-in-depth
- ▶ Sept 3, NRC audit of calculation/evaluation re: Emergency Feedwater diversity
- ▶ Sept 9, Presentation to Advisory Committee on Reactor Safeguards (ACRS)
- ▶ Sept 10, NRC's Quality and Vendor Branch visit at Lynchburg
- ▶ Sept 15, NRC audit to discuss RLBLOCA methodology path forward
- ▶ Sept 16, Meeting with NRC re: Aeroball Measurement System
- ▶ Sept 17, NRC audit of self-powered neutron detectors design documents
- ▶ Sept 17, Meeting with NRC re: Fuel Assembly Mechanical Design Report issues
- ▶ Sept 17, NRC audit of Chapter 12 supporting documents
- ▶ Sept 18, Meeting with NRC to discuss critical sections selection methodology



U.S. EPR™ Design Certification: Progress Report



DC Review Status as of September 18:

- ▶ Received 3,131 NRC formal questions and provided 2,675 complete responses

DC Review Milestones Achieved:

- ▶ Received Draft Safety Evaluation for the Incore Trip Setpoints and Transient Methodology topical report, dated August 20, 2009
- ▶ Received NRC Phase 2 Safety Evaluation with no Open Items for FSAR Chapter 8, “Electrical Systems,” dated August 20, 2009
- ▶ Received NRC Phase 2 Safety Evaluation with Open Items for FSAR Chapter 2, “Site Characteristics,” dated September 3, 2009



DC Rulemaking scheduled completion: February 2012



OL3 Project Progress Installation of the Inner Dome



Inner Dome Installation

SEPTEMBER 2009

[Click here](#) to access the
EPR™ projects Internet site

The August OL3 Project Status presentation is available on the
Plants Global [Multimedia Library](#) (internal access only)

- ▶ On September 6th, the 210 ton steel dome was lifted using one of the most powerful cranes in the world, bringing the height of the reactor building to 58.5 meters (~192 feet).
- ▶ The dome will be fully welded to completely seal the inner containment, then covered by 7,000 tons of reinforced concrete.
- ▶ The closure of the reactor building followed the completion of the 900 ton polar crane and runway, and the installation of the 8.3 meter (27 ft) wide equipment hatch.
- ▶ Go to www.AREVA.com to see the video of the dome installation.



OL3 Project Progress



Inner Dome Installation

SEPTEMBER 2009

NI civil construction is currently 73% complete:

- ▶ Concrete ~248,000 m³ (NI+TI)
- ▶ ~47,000 tons reinforcement steel assembled (NI+TI)
- ▶ ~3,350 tons embedded parts (NI)
- ▶ Personnel: ~3,750 workers on-site, 2-3 shifts, six days per week
- ▶ Procurement: 90% complete
- ▶ Main NI buildings – closed and weatherproofed
- ▶ Reactor Building
 - ◆ Reactor inner dome installed September 6, building now stands at 58.5 meters height
 - ◆ Sacrificial concrete cast completed in spreading area
 - ◆ Equipment hatch installed
 - ◆ Polar crane installation complete
- ▶ Going forward
 - ◆ Civil construction will reach 95% completion by the end of 2009
 - ◆ Primary component delivery to site ongoing
 - ◆ Component installation activity will increase as civil work decreases
 - ◆ Reactor pressure vessel installation scheduled for early 2010

[Click here](#) to access the EPR™ projects Internet site

The August OL3 Project Status presentation is available on the Plants Global [Multimedia Library](#) (internal access only)



OL3 Project Photo Update



TOP LEFT: Lifting of inner dome

TOP RIGHT: Inner dome placement

BOTTOM RIGHT: Hatch structure installation

AUGUST/SEPTEMBER 2009



[Click here](#) for these and more of the latest OL3 project photos (internal access only).



Flamanville 3 Project Progress



Reactor Pressure Vessel Support Ring delivery

SEPTEMBER 2009

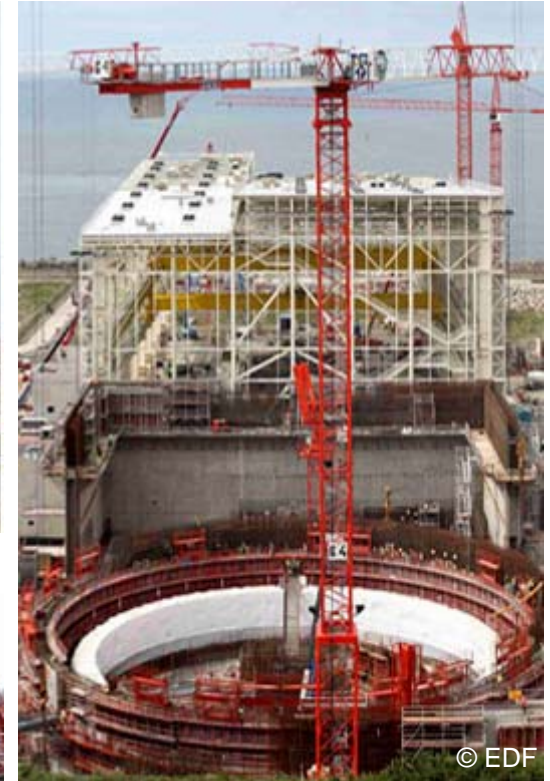
[Click here](#) to access the EPR™ projects Internet site

The August FA3 Project Status presentation is available on the Plants Global [Multimedia Library](#) (internal access only)

- ▶ **First deliveries on site:**
 - ◆ RPV Support Ring
 - ◆ IRWST suction lines
 - ◆ Primary anchors (1st batch)
 - ◆ Embedded excore tubes
 - ◆ Embedded tank
- ▶ **Construction:**
 - ◆ EDF scope: installation of the 300-ton bridge crane in the turbine building
- ▶ **Primary Equipment:**
 - ◆ Reactor pressure vessel and steam generators are currently being manufactured at Chalon St. Marcel
 - ◆ Pressurizer manufacturing has also begun at Chalon St. Marcel
- ▶ **Licensing agenda:**
 - ◆ Preliminary Safety Analysis Report (PSAR) presented in 2004
 - ◆ Final submittal of the Safety Analysis Report planned for October 2010



FA3 Project Photo Update



TOP: General view, East West
RIGHT: Reactor building foreground,
turbine hall background
BOTTOM: Reactor building external
form works
AUGUST 2009



View more FA3 photos
on the [EDF Web site](#)



Renewables Headlines

- ▶ **Siemens, AREVA, Alstom said to bid for Israeli solar firm Solel**
Bloomberg, September 4
- ▶ **Will AREVA lead Virginia into a wind-powered future?**
Daily Press, September 3
- ▶ **Offshore Wind Power with a Lynchburg Link**
The News and Advance, September 1

Residents sound off on nuclear reactor

Many tell PSC to allow Constellation merger

By ELISHA SAUERS Staff Writer
Published 09/03/09

An overwhelming majority of attendees at a packed hearing last night gave state regulators a resounding "Yes" to a third nuclear reactor at a Calvert County power plant.

Notable Quotes



FACTBOX-Firms bidding for UAE nuclear power plant

Tue Sep 8, 2009 7:27am EDT

DUBAI, Sept 8 (Reuters) - The United Arab Emirates is days away from awarding the largest ever energy contract in the Middle East for the development of a nuclear power plant.

The contract to build at least four reactors is expected to cost the world's third-largest oil producer as much as \$40 billion.

The consortia from France that includes nuclear group Areva, GdF Suez, and Total are in pole position to win the multi-billion dollar contract, sources familiar with the negotiations said.



Weather delays construction at Areva's China EPR

Wed Sep 2, 2009 4:29pm IST

- * Areva aims to start building work in mid-September
 - * Building works delayed on lack of green light, bad weather
- PARIS, Sept 2 (Reuters) - The start of construction work at Areva's first nuclear reactor in China has been delayed from August to around mid-September because of bad weather, the French state-owned firm said on Wednesday.

THE WALL STREET JOURNAL

WSJ.com

Rolls-Royce, EDF To Link Up On New Nuclear Build In UK

September 16, 2009

LONDON (Dow Jones)--Rolls-Royce Group PLC (RR.LN) said Wednesday it will collaborate with Electricite de France SA's (EDF.FR) U.K. unit EDF Energy on programs to support the construction of four new nuclear power plants in the U.K. The agreement covers engineering and technical support during both the pre- and post-construction phases.