NRC FORM 658
(9-1999)

U.S. NUCLEAR REGULATORY COMMISSION

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Do not include proprietary materials.

DATE OF MEETING
06/26/2003

The attached document(s), which was/were handed out in this meeting, is/are to be placed in the public domain as soon as possible. The minutes of the meeting will be issued in the near future. Following are administrative details regarding this meeting:

Docket Number(s)	**50-528**
Plant/Facility Name	**Palo Verde Nuclear Generating Station, Unit 2**
TAC Number(s) (if available)	**TAC No. MB3696**
Reference Meeting Notice	**ML031710021**
Purpose of Meeting (copy from meeting notice)	**The licensee requested the meeting to address the staff's concerns about use of S2M SBLOCA methodology in the Unit 2 power uprate application dated 12/21/2001.**

NAME OF PERSON WHO ISSUED MEETING NOTICE	TITLE
Jack Donohew	**Senior Project Manager**

OFFICE
Office of Nuclear Reactor Regulation

DIVISION
Division of Licensing Project Management

BRANCH
Project Directorate IV

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DF01

S2M SBLOCA Model at PVNGS

APS/Westinghouse Meeting with NRC

June 26, 2003

S2M SBLOCA Model at PVNGS

◆ Background

- The S2M EM Generic Topical Report was approved by the NRC in December of 1997 for all CE PWR's without any Conditions or Limitations related to Core Power
- The NRC SER for the S2M EM concluded the model provided "improved realism" while retaining "significant conservatism"
- The S2M EM is currently the licensing basis for all 3 PV units at 3876 MWt
- In fact, S2M is required to be used by the approved and implemented Zirlo topical

S2M SBLOCA Model at PVNGS

◆ Background

- The Unit 2 power uprate draft SER proposes a License Condition that would impose the S1M EM at PVNGS on the basis that S2M has not been approved for power levels above 3400 MWt
- This proposal is contrary to NRC's approval of the S2M EM
- The NRC is using the PV docket and this licensing action to reopen the evaluation of an approved EM
- The proposed License Condition (workaround) in the Unit 2 power uprate draft SER creates a licensing basis problem for all 3 PV units not just PV Unit 2

S2M SBLOCA Model at PVNGS

- **Background**
  - We do not see a clear success path through this problem if we are required to revert to S1M due to the complexities it introduces into our current licensing basis
  - The power uprate SER would have to supersede previous License Amendment SERs as well as approved topical report SERs

S2M SBLOCA Model at PVNGS

- **GOALS for this meeting**
  - Gain acceptance that the S2M Evaluation Model, as originally approved by the NRC in the existing SER, is not power level dependent and, as such, is applicable at 3990 MWt
  - Obtain a mutually agreed upon schedule for a revision to the applicable section of the Power Uprate draft SER for PVNGS-2

S2M SBLOCA Applied at PVNGS

- **Success path for achieving stated goals**
  - The requested sensitivity calculations have been completed
  - These demonstrate that the S2M hot rod heatup calculation is not uniquely impacted by variations in core power
  - The NRC accepts the applicability of the S1M to PVNGS-2 at 3990 MWt, and
  - The blowdown hydraulics calculation for the S2M is essentially identical to that of the S1M, therefore
  - It is appropriately concluded that the S2M EM is applicable to a core power level of 3990 MWt

PALO VERDE