

Fuel Particle Transport (Public)

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Meeting Objectives

Review Framatome's plan to assess fuel particle transport and settling in the reactor related to FFRD

Provide an opportunity for NRC feedback

Agenda

Introduction

Morris Byram

Function of the study

Scott Franz

Application of transport code

Scott Franz

Qualification of transport code planned

Jeff Lane

Models

Scott Franz

Summary

Morris Byram

Next Steps

Morris Byram

Introduction

Morris Byram

Introduction

Evaluation of Fuel Fragmentation, Relocation and Dispersal (FFRD) is part of the increased burnup topical report

An evaluation of potential fuel particle transport and settling is part of the FFRD evaluation

Framatome is planning on using a system thermal-hydraulic code to simulate fuel particle transport and settling following dispersal from a fuel rupture during a LOCA event

The system thermal-hydraulic code's qualifications for evaluating fuel particle transport behavior have been assessed and will be discussed today

Results from the studies will be used to provide conservative conclusions to support downstream evaluations of fuel particle transport and settling following dispersal

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