



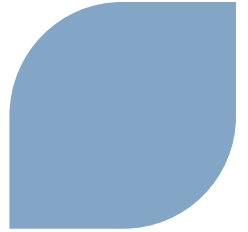
Update Process for Approved Topical Reports

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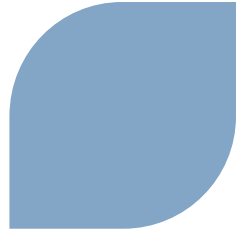


Background



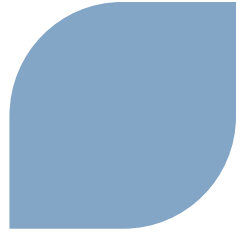
- ▶ **Change process has previously been allowed**
 - ◆ **EMF-96-029P-A, “SAV-95”**
 - ◆ **EMF-92-116P-A, “PWR Fuel Design”**
 - ◆ **etc, ...**
 - ◆ **LOCA Evaluation Model uses 10CFR50.46 reporting**
 - ◆ **Licensee’s use 10CFR50.59**

Current Process



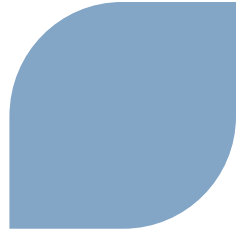
- ▶ **Topical Reports submitted to the NRC for review and approval**
- ▶ **Changes require the same process**
 - ◆ **Development of a supplement or revision**
 - 1 – 2 years
 - ◆ **Review process**
 - 2 – 3 years
- ▶ **Process is expensive**
- ▶ **Costly process in terms of money, resources and time to market**

Need for Changes



- ▶ **There are many reasons requiring changes to models or methods**
 - ◆ **Modern computers allow more accurate modeling based on first principle models**
 - ◆ **New testing provides additional validation data that help to increase the fidelity of models or codes**
 - ◆ **Incorporation of improved source data (e.g., cross section libraries)**
 - ◆ **Improved modeling of system components**
 - ◆ **New regulatory requirements**

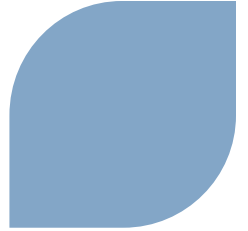
Allowed Changes



▶ Types of changes which should be allowed without NRC approval

- ◆ Cross section libraries
- ◆ Number of energy groups
- ◆ Inputs due to a change in an approved code
- ◆ Incorporation of new CHF correlations
- ◆ System component modeling
- ◆ Input and Output structure changes (without a reporting requirement)
- ◆ Changes that do not result in a reduction in quality of comparisons to benchmarks
- ◆ Changes which do not provide a significant increase in margin to SAFDLs

Approved Changes



▶ What types of changes require a new submittal?

- ◆ A significant reduction in uncertainties is credited
- ◆ A change that results in a significant increase in operating margin
- ◆ A change that affects the quality of the comparisons to benchmarks