Docket files
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Donald F. Knuth, Assistant Director for Reactor Safety, L

PROGRESS REPORT ON OCONEE CFT BREAK ANALYSIS

We are continuing our analysis of the CFT line break for Oconee 2. We have tentatively decided that:

(1) The accumulator bypass assumption need not be imposed, even though the break area is 0.5 ft^2. This is a variance with the B&W evaluation model.

(2) Bubble rise can be used in certain pressure vessel nodes. This is a change in our usual RELAP procedures, but not a change in the CRAFT procedures.

(3) Downcomer axial noding is permissable and will be used in RELAP.

With these assumptions we are running several more RELAP runs. We are also using TOODEE to scope heat transfer in the core where the cooling provided by forced convection to single-phase vapor, saturated at the core inlet, with flow rate as a parameter.

We expect that steam cooling alone will be insufficient. Our next TOODEE calculation will start with a quiet water level somewhere in the core zone (variable as a parameter) with core heat acting as a steam pump.

We also have decided, again tentatively, that the present B&W calculations [which show that, over a long period of time, boiloff approximately equals supply from IHP pump] is not sufficient in terms of "abundant delivery", We are using, as a parameter variation, 2 HP pumps in our RELAP calculations. More progress will be reported when available.

/S/ Denwood F. Ross
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