COMMENTS ON DRAFT DECOMMISSIONING RISK BY ORANGE COUNTY, S.C., MARCH 29, 2000

- COMMENT: (a) Draft study does not address how and with what probability partial drain down events can cause a zirconium fire.
 - (b) The Draft study uses NUREG/CR-0649 as a basis for resolving partial drain down events, but the NUREG/CR is deficient in its treatment of partial drain down events (no radiative heat transfer along axis of fuel assembly, no consideration of steam-zirc reaction, no propagation of exothermic reactions to nearby assemblies, assumed larger center-to-center distances between fuel). Even so, it still supports partial drain down as a concern.
 - (c) Older fuel is more vulnerable to ignition in a state of partial drainage than in a state of total drainage.
 - (d) A steam-zirconium reaction during partial drain down will produce hydrogen gas that could explode.

Tasked to: Joe Staudenmeier

COMMENT:

Draft study does not address the risk of a criticality accident that arises from having low burnup fuel assemblies in a spent fuel pool.

Tasked to: Tony Ulses

COMMENT:

No basis given for the threshold dose for relocation of 4 rem over a period of 5 years.

Tasked to: Jason Schaperow

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