

CHAIRMAN Resource

From: Marv Lewis <marvlewis@juno.com>
Sent: Wednesday, April 08, 2015 3:25 PM
To: CHAIRMAN Resource; ACRSEOM Resource
Subject: Fw: question

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From: marvlewis@juno.com
Subject: question
Date: Wed, 8 Apr 2015 19:08:22 GMT

Dear Chairman ACRS,

Someone asked in the NRC 8/8/2015 NUREG-1927 draft meeting about the impact of a microscopic or other through-wall crack in the thin steel canisters and how long it would take for the helium to leak out before other gases and what would be the impact.

1. Gases mix easily and well. Except for the starting amount, helium would flow out with the other gases representative of their parentage's and fairly fast (within seconds).
2. As the gases flow out, air would flow in.
3. An ignition could occur or a fire.
4. What analysis do you have as to the dispersal of radioactives from this scenario, particularly with high burnup fuel that may have cladding

damage?

5. This information should be included in NUREG-1927 to inform the process and guidances.

Marvin Lewis,
Retired P. E.

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