



General Electric Company
175 Curtner Avenue, San Jose, CA 95125

March 26, 1993

Docket No. STN 52-001

Chet Poslusny, Senior Project Manager
Standardization Project Directorate
Associate Directorate for Advanced Reactors
and License Renewal
Office of the Nuclear Reactor Regulation

Subject: **Submittal Supporting Accelerated ABWR Review Schedule -
Consequence Analysis**

Dear Chet:

Enclosed is information pertaining to the ABWR SSAR Section 19E consequence analysis
and its vent release points.

Please provide a copy of this transmittal to Bob Palla.

Sincerely,

Jack Fox
Advanced Reactor Programs

cc: Hal Careway (GE)
Norman Fletcher (DOE)

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GE NUCLEAR ENERGY
Advanced Reactor Programs

Date: March 26, 1993

To: Bob Palla
Phone 504-1095;m/d 10E4

This page plus one page.

From: Harold A. Careway, m/c 754 Phone: (408) 925-6008
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San Jose, CA 95125 925-1687

Subject: Consequence Analysis, vent release points

Message: In the ABWR consequence analysis, subsection 19E.3, a release height of 37 meters was used for all releases. This is considered a minimum height of release for the following reasons:

- If the systems work as designed, any release will exit at the plant stack which is approximately 74 meters.
- If the systems don't work as designed which results in an over pressure release then three things can happen:
 1. The release still follows the HVAC path way and exits via the stack at 74 meters.
 2. The release damages the pathway but still follows it and exits at the base of the stack at 37 meters.
 3. The release destroys the pathway in which case one of two options are present
 - a. If the release is on the refueling floor, the release exits via refueling floor blowout panels at the roof at 37 meters.

- b. If the release is in the reactor building below the level of the refueling floor, then a series of blowout panels will route the release upward to the main steam tunnel where a blowout panel to the tunnel will route the release to the tunnel. The release will travel down the tunnel to the turbine building interface where a blowout stack on the side of the turbine building will route the release to the top of the turbine building which is higher than 37 meters (it's something like 42 meters but I can't guarantee this number just that it is higher.)

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