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Operator Interruption of High Pressure Injection

This letter is cover one customer and one subject only.

In review of my earlier memo on this subject, dated February 9, 1978, Field Service has recommended the following procedure for terminating high pressure injection following a LOCA.

1. Low pressure injection has been actuated and is flowing at a rate in excess of the high pressure injection capability and that situation has been stable for a period of time (10 minutes). Same as previously stated.
2. At X minutes following the initiation of high pressure injection, termination is allowed provided the hot leg temperature indication plus appropriate instrument error is more than 50°F below the saturation temperature corresponding to the reactor coolant system pressure less instrument error. X is a time lag to prevent the termination of the high pressure injection immediately following its initiation. It requires further work to define its specific value, but it is probable that 10 minutes will be adequate. The need for the delay is that normal operating conditions are within the above criteria and thus it is conceivable that the high pressure injection would be terminated during the initial phase of a small LOCA.

I find that this scheme is acceptable from the standpoint of preventing adverse long range problems and is easier to implement. Therefore, I wish to modify the procedure requested in my first memo to the one identified here.

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