

Question Deletion

Question #65 (AMSAC) was deleted after a discussion with the NRC chief examiner.

The Question appeared as follows on the student's exam:

65) The plant is stable at 48% power, when the following sequence of events occurs:

<u>Time</u>	<u>Event</u>
T=0 seconds:	Turbine impulse pressure channel 3MSS-PT505 fails low.
T+30 seconds:	During the resulting transient, all main feedwater is lost due to low feed pump suction pressures.
T+40 seconds:	The low-low SG level reactor trip setpoint is reached, but the reactor fails to trip, and current SG narrow range levels are as follows:
	<ul style="list-style-type: none">• SG "A": 12% and decreasing.• SG "B": 16% and decreasing.• SG "C": 14% and decreasing.• SG "D": 13% and decreasing.

How will the AMSAC System respond to this event?

- A. AMSAC will trip the reactor with no time delay, and start the AFW pumps in 60 seconds.
- B. AMSAC will trip the turbine in 30 seconds, and start the AFW pumps in 60 seconds.
- C. AMSAC will not actuate, since it was procedurally in "Bypass" at the start of the event.
- D. AMSAC will not actuate, since indicated turbine power was below C-20 for the required time before the ATWS event occurred.

The listed correct answer, "B", includes time-delays that are the delays assumed in accident analysis for these actions, but NOT the time delays associated with AMSAC circuitry. Therefore, there is no correct answer.