

Fire in MCR	Abandon?	Transfer while in MCR	Local Action #1	Local Action #2	Status	Probability (Given Fire)	Comment
Fire	1.00E+00	9.80E-01	9.60E-01	9.60E-01	OK	9.03E-01	Success via Timely Abandonment, Transfer & Remote Operation
			4.00E-02	4.00E-02	CD	3.76E-02	Failed Despite Successful Transfer, Since Action 2 Unsuccessful
		2.00E-02	4.00E-02		CD	3.92E-02	Failed Despite Successful Transfer, Since Action 1 Unsuccessful
	0.00E+00				CD	2.00E-02	Failed Transfer, no Opportunity for "Remote" Operation
					CD	0.00E+00	Wrong Decision, MCR Fire Forces Abandonment with no Opportunity for "Remote" Operation
					Sum =	9.68E-02	

Decision Tree N/A EXCR ASD ASD NOTE: ASD only provides for "implicit" distinction between "remote" actions at panel vs. at component (via timing, complexity, etc.)

Scenario: Unsuppressable fire in MCR. Operators decide abandonment is warranted and take actions to transfer "remotely," two independent ASD actions at separate "local" components. Abandonment, transfer and "remote" operations can each be accomplished in > 30 min. All actions are proceduralized, have received extensive training, and require minimal coordination, and, even though taken "locally," assumed complexity is minimal.

Assumptions: Decision to abandon is now correct 100% of the time. Transfer is effectively just a "one-action" activity (even if requiring multiple "sub-actions"). All relevant time margins are at least 100%.

Decision Path for EXCR Tree (Fig 5-4):

- D22 - No
- D26 - Yes
- D27 - Yes
- D33 - No
- D34 - No

From Lookup Table X, HEP = 0.02

Decision Path for ASD (Fig 5-5), assumed same for each local action:

- D40 - Yes
- D41 - Yes
- D42 - Yes
- D43 - Yes
- D44 - Yes
- D49 - No
- D50 - No

From Lookup Table AG, HEP = 0.04

Result from this scenario is a total HEP for failure to successfully shutdown (i.e., avoid CD) due to loss of habitability = 0.0968

Depending on the associated CCDDP for this scenario, the joint HEP-CCDDP = 0.0968 x CCDDP.