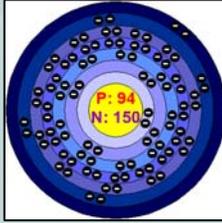
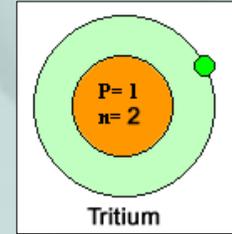


Protective Action Recommendations





Motivation



The OST Incident Commander will make an initial recommendation to local officials for PAR in the event of a significant incident that could lead to release of HAZMAT.



The Need to Shelter

- **Not necessary to issue PAR if barriers appear intact.**
- **Dispersal of airborne HAZMAT is possible if SST/SGT is breached and an energy source is available.**



Authority to Make Recommendations

- **The IC recommends the appropriate PAR card.**
- **Local officials have the authority and responsibility to take any PAR needed.**

Authority to Make Recommendations (Con't.)

- **DOE is obligated to make a timely and clear recommendation regarding PAR.**
- **IC will make an initial determination and notify local officials and OST.**

Color Conditions Used In PAR

- **Yellow** – SST/SGT is breached, damaged, exposed to fire, or when condition of weapon(s) or containers(s) is unknown.
- **Red** – SST/SGT is breached, fire or explosion has occurred or is likely, or weapon(s) is exposed to fire or other energy source.
- SST/SGT is not damaged; no protective action required.

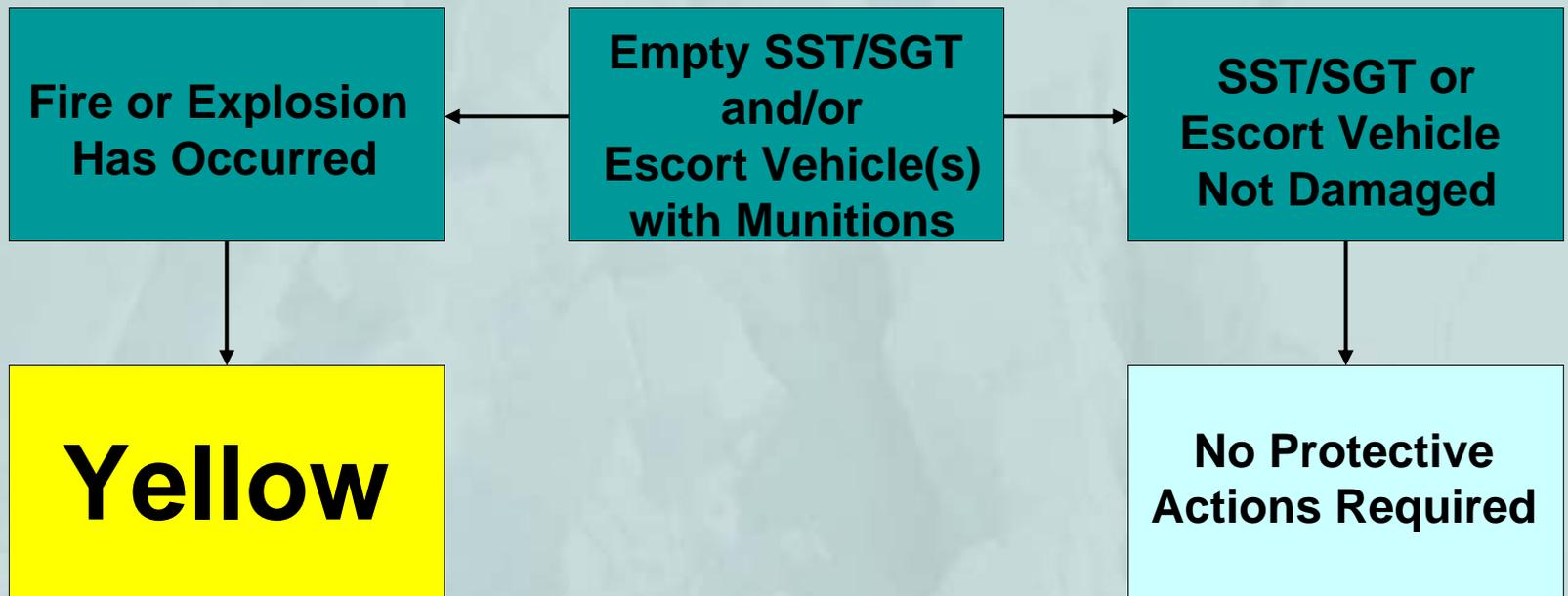
PAR Card Set

- Alpha
- Bravo
- Charlie I
- Charlie II
- Charlie III

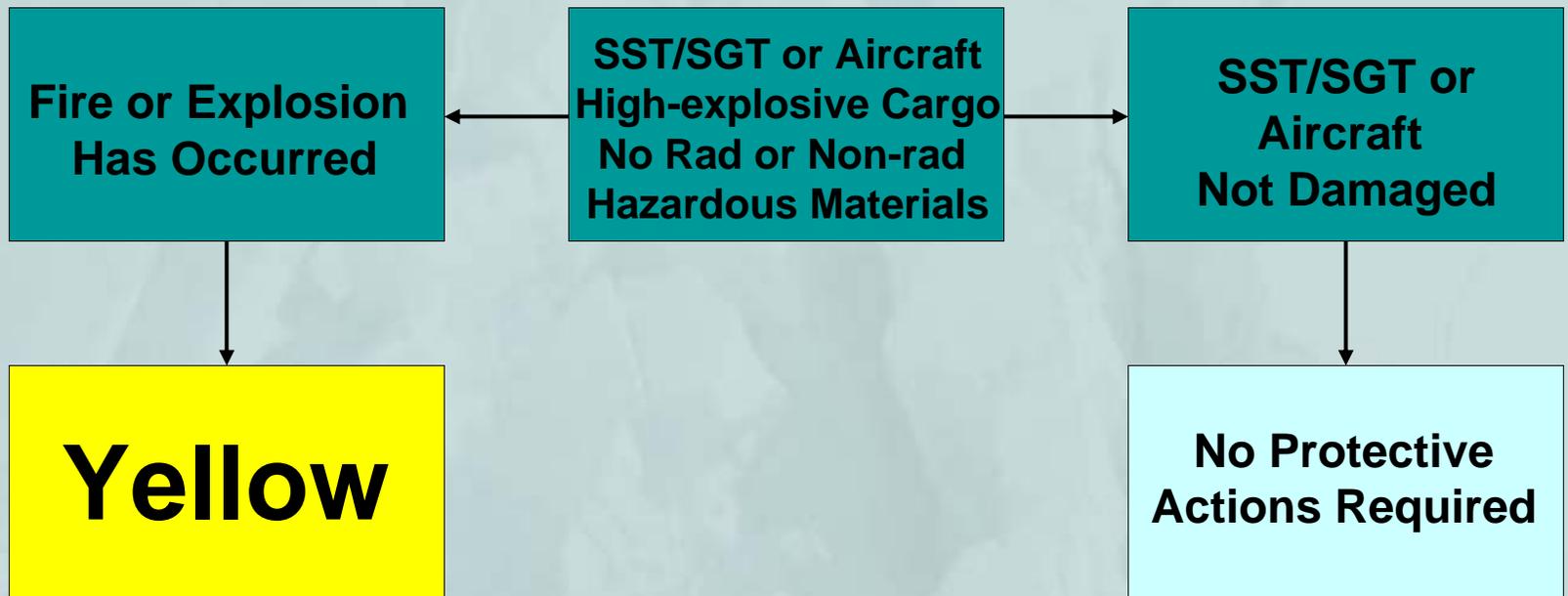


- Delta I
- Delta II
- Delta III
- Echo I
- Echo II
- Echo III

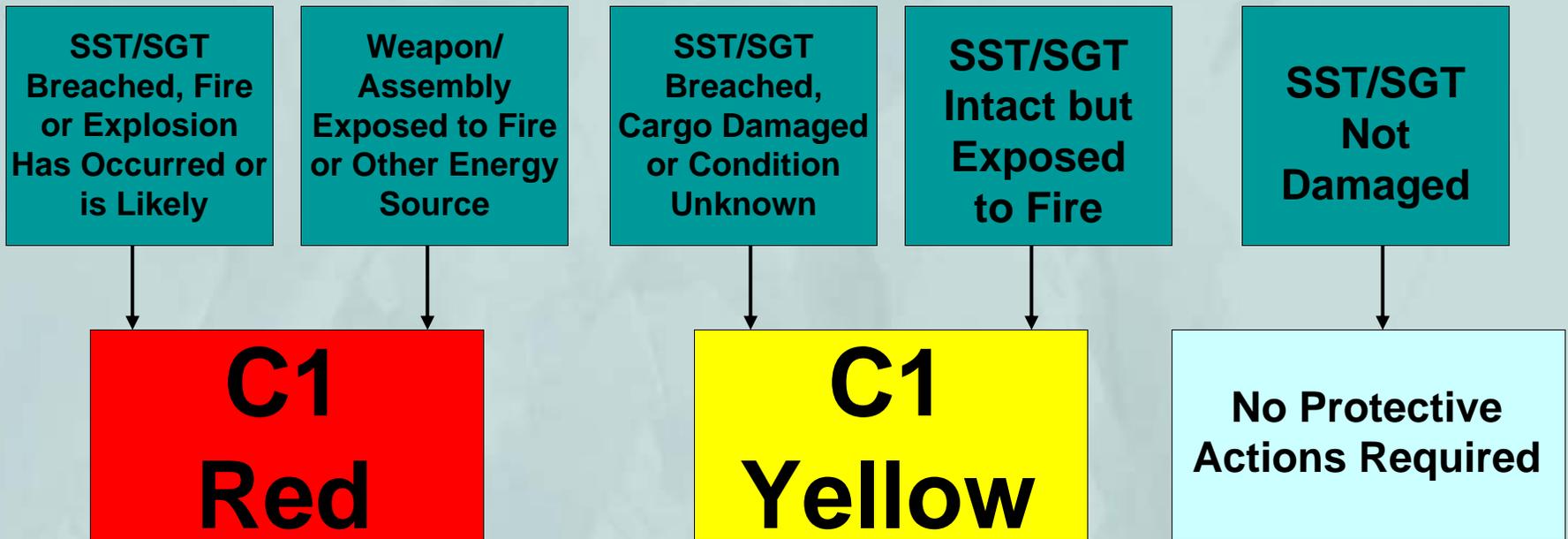
Alpha



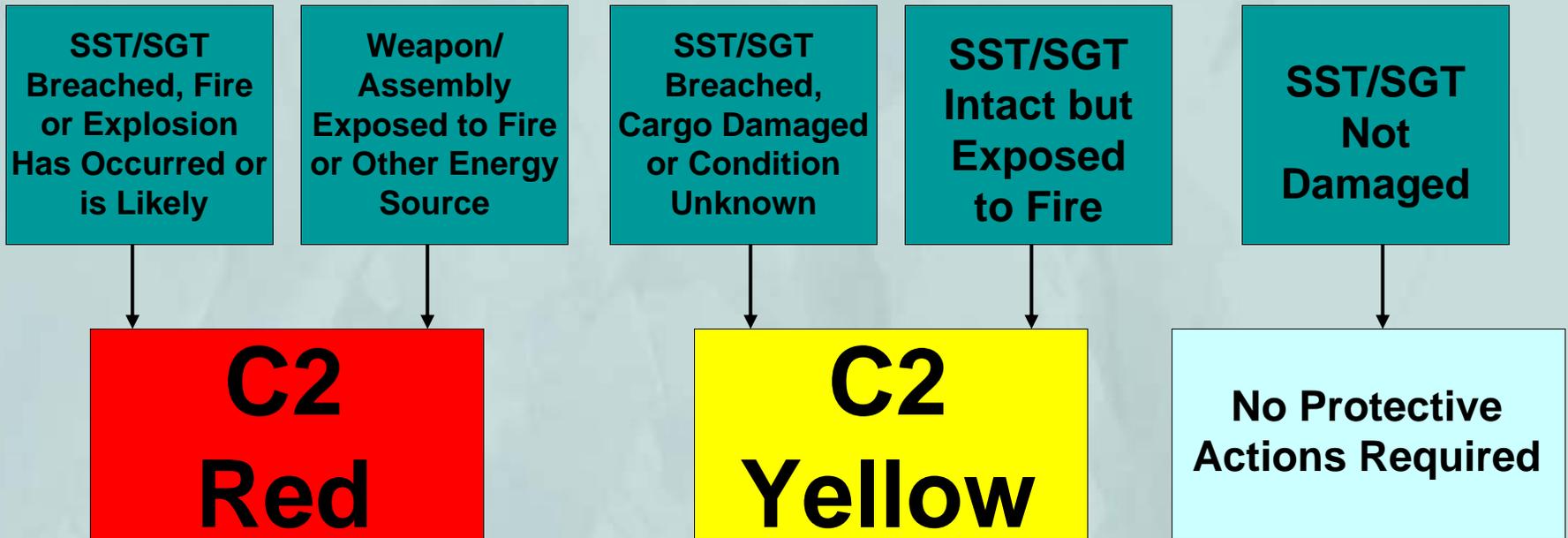
Bravo



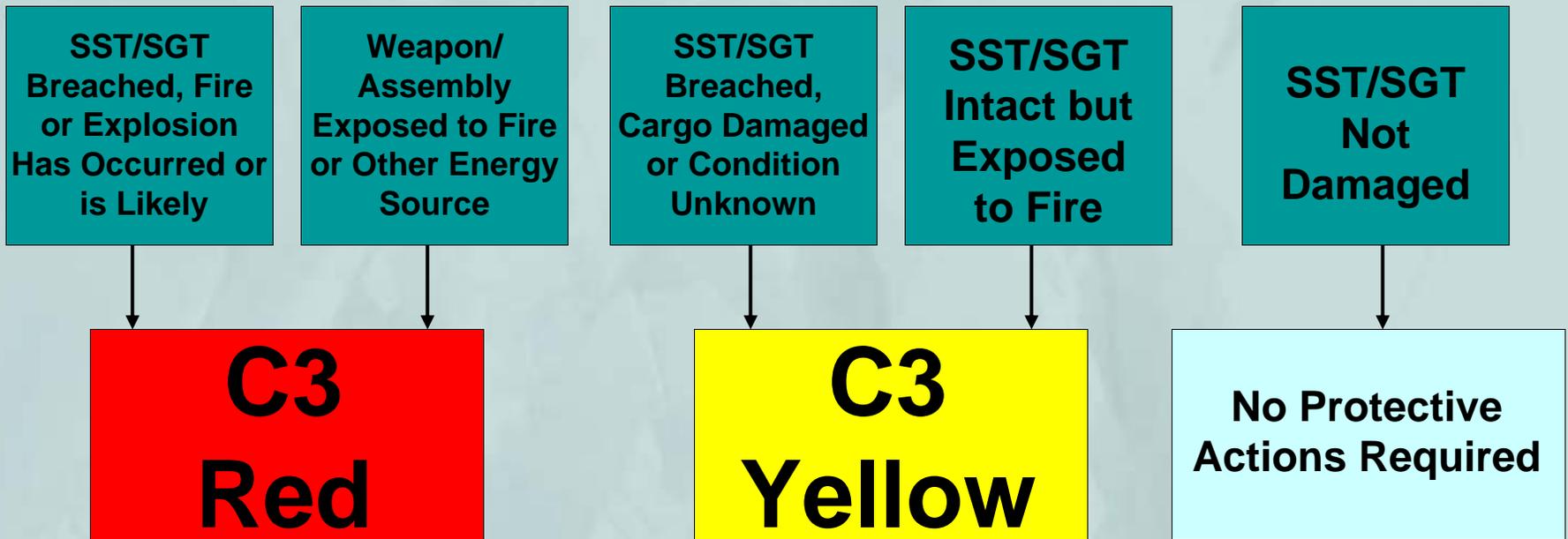
Charlie I



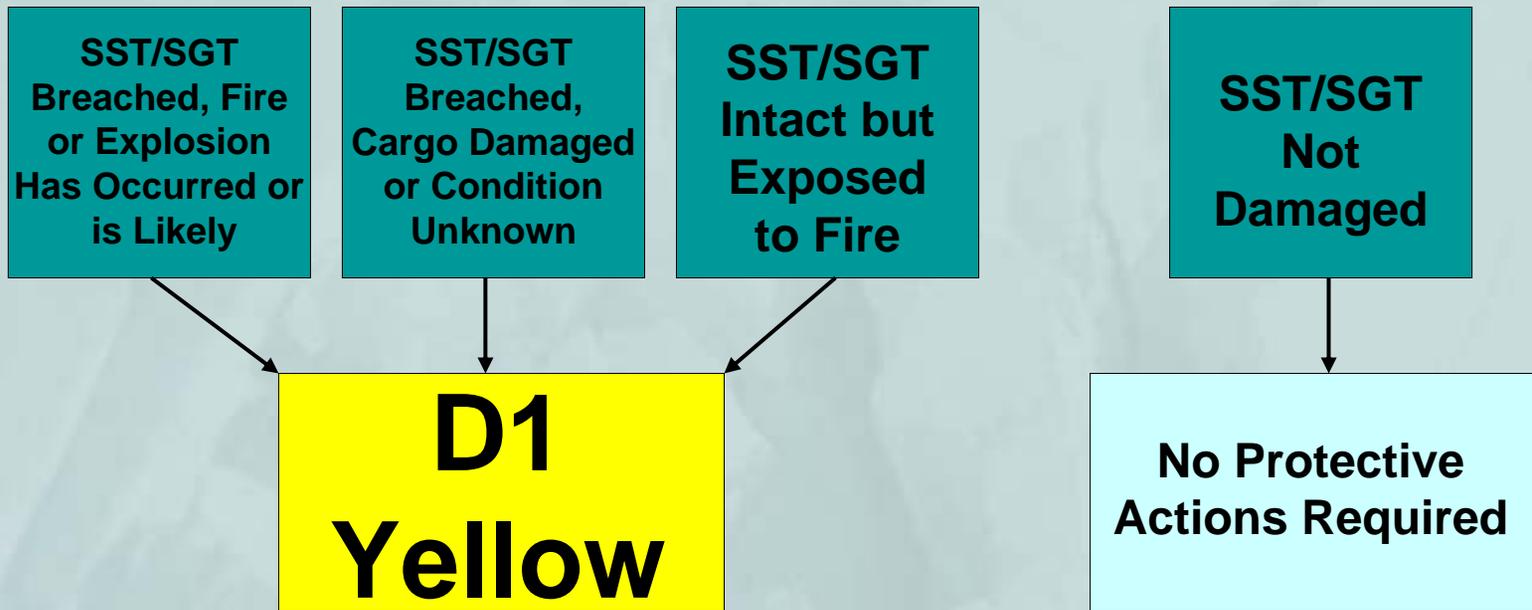
Charlie II



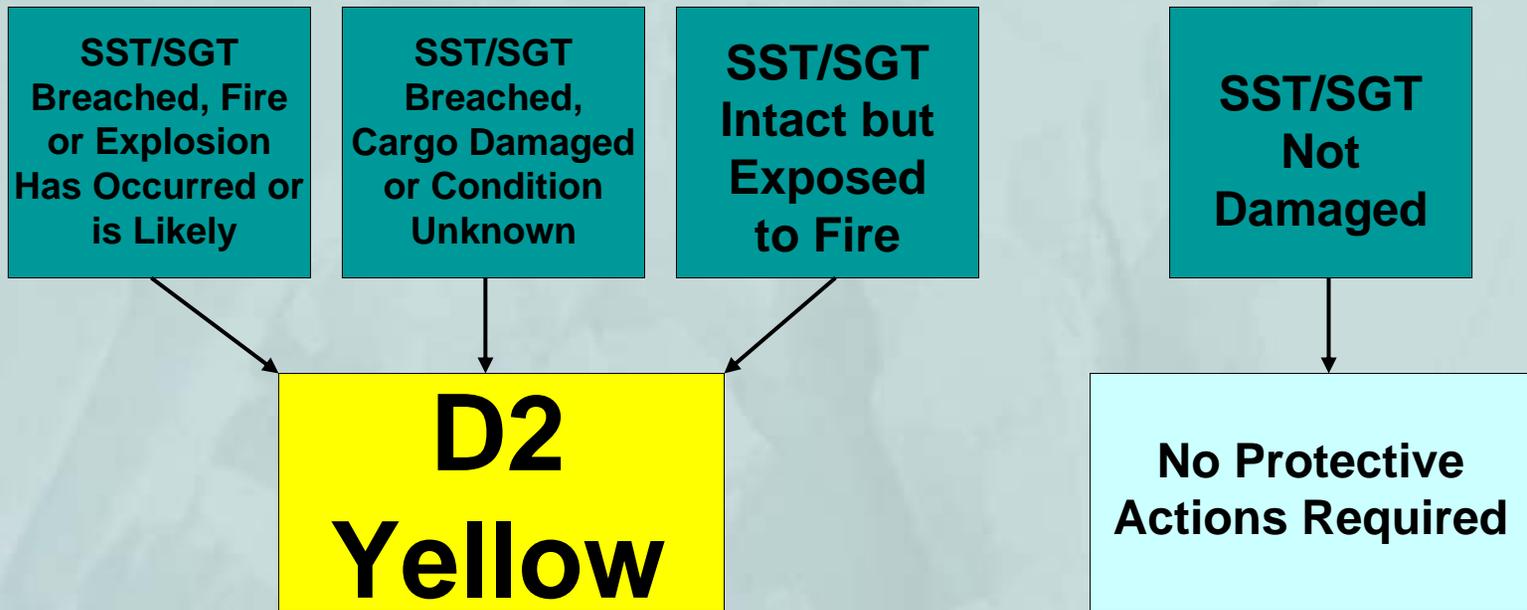
Charlie III



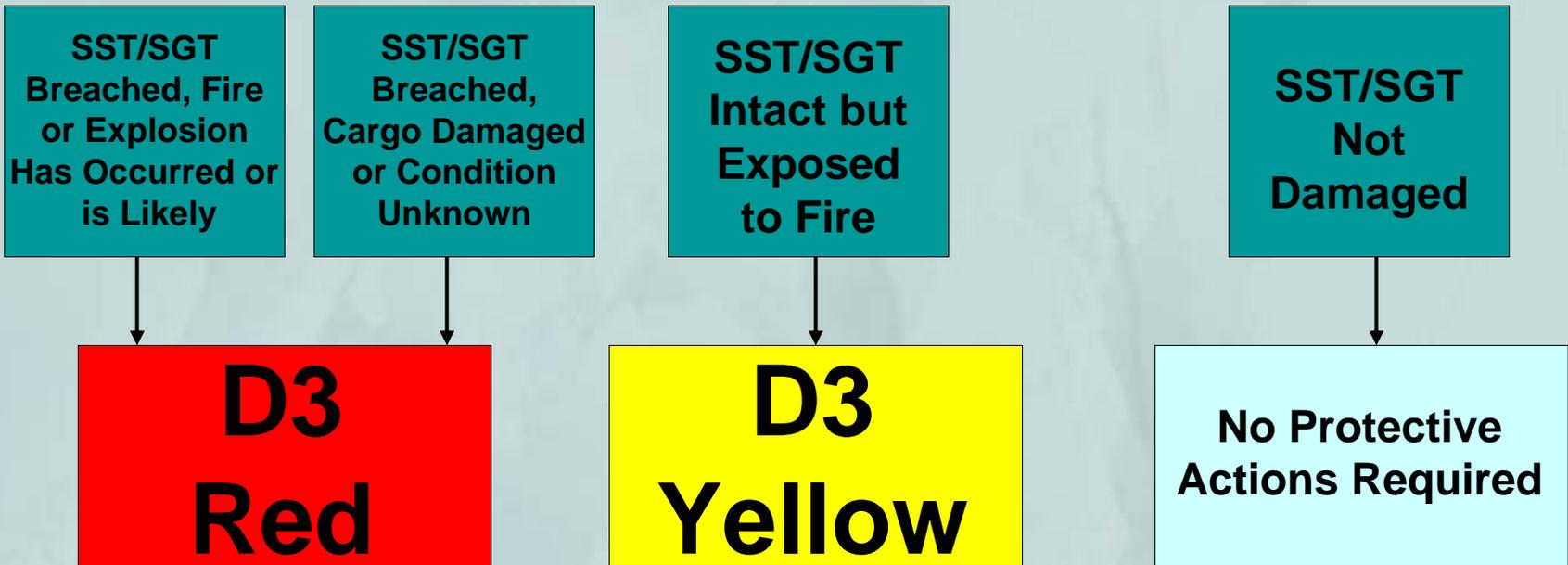
Delta I



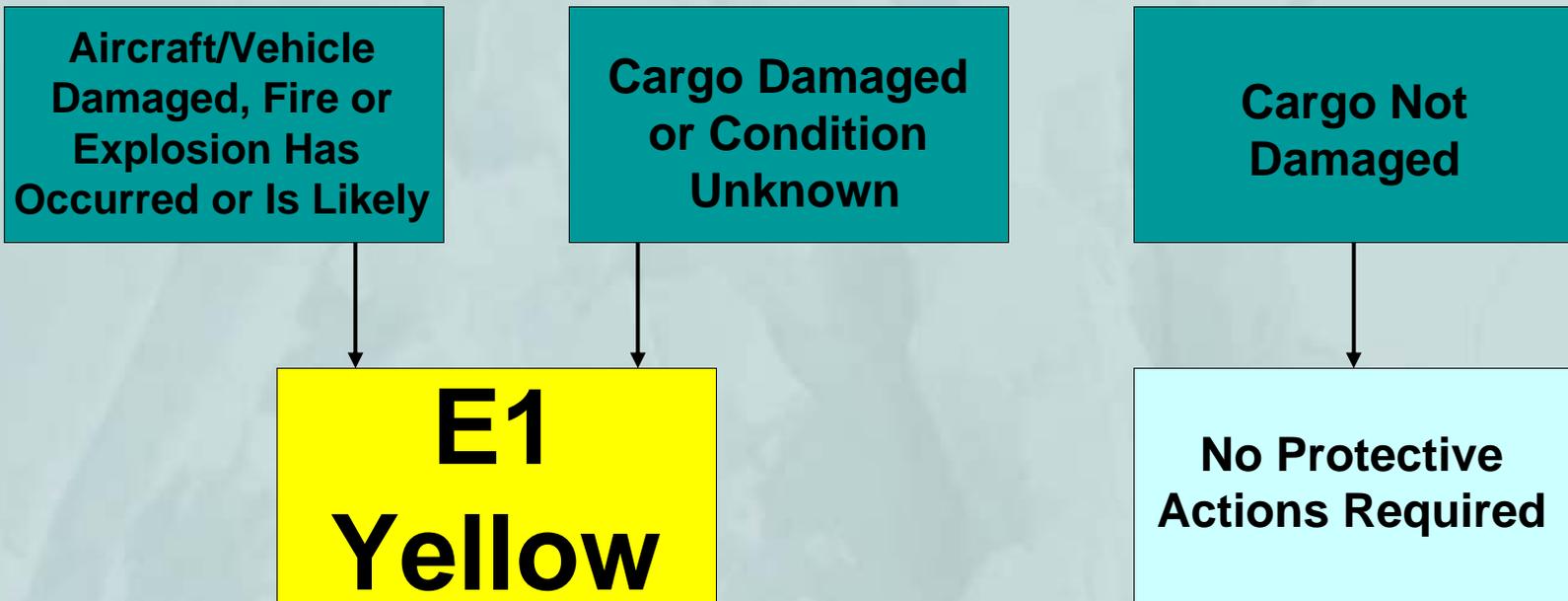
Delta II



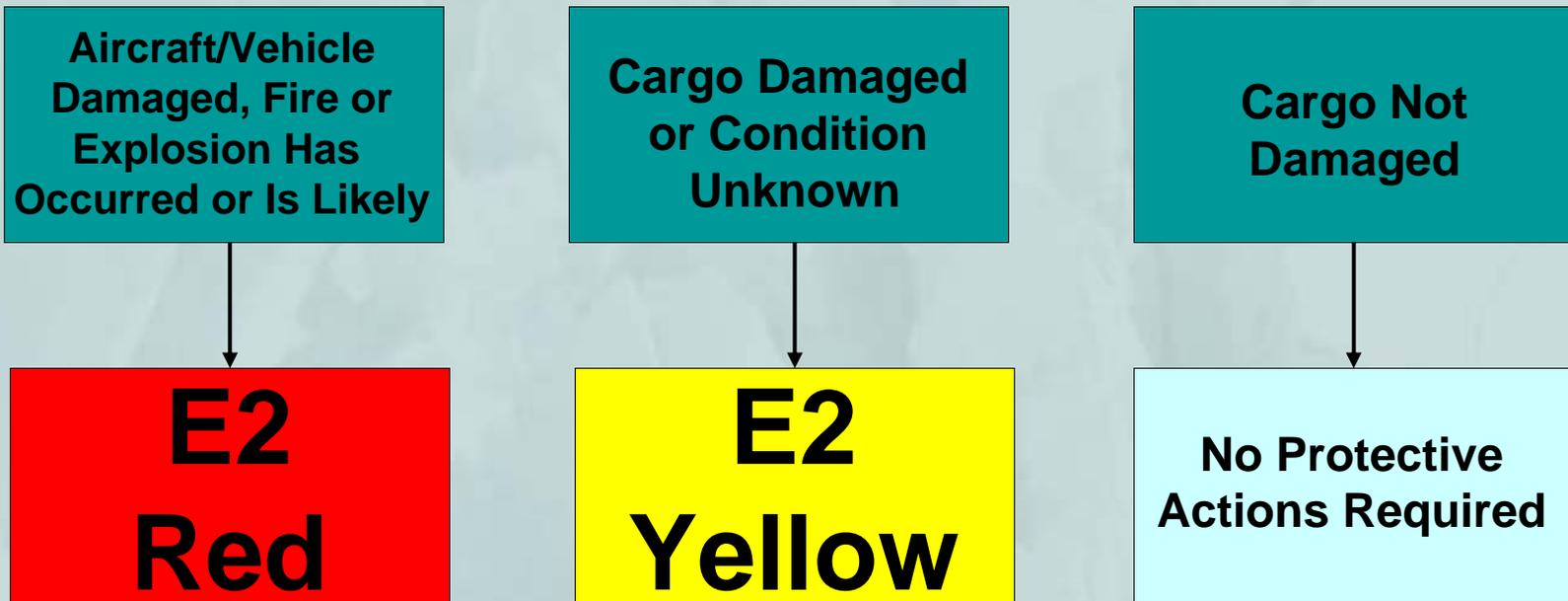
Delta III



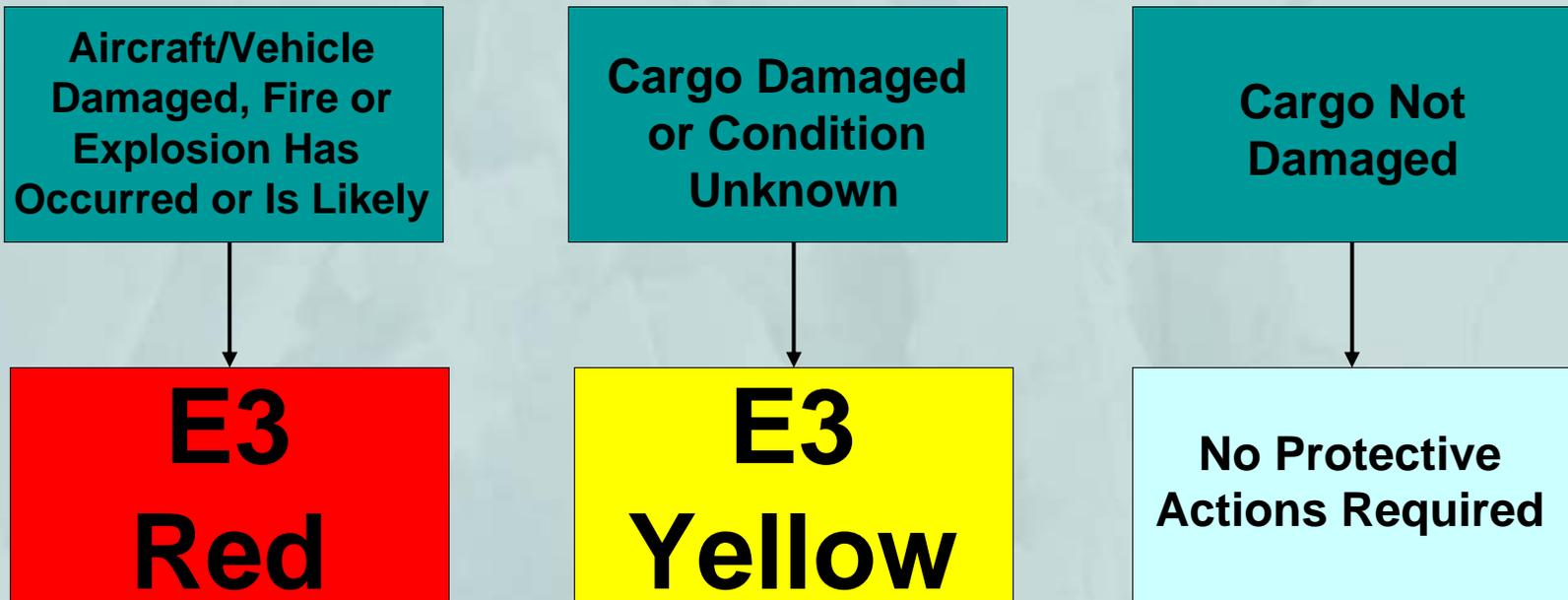
Echo I



Echo II



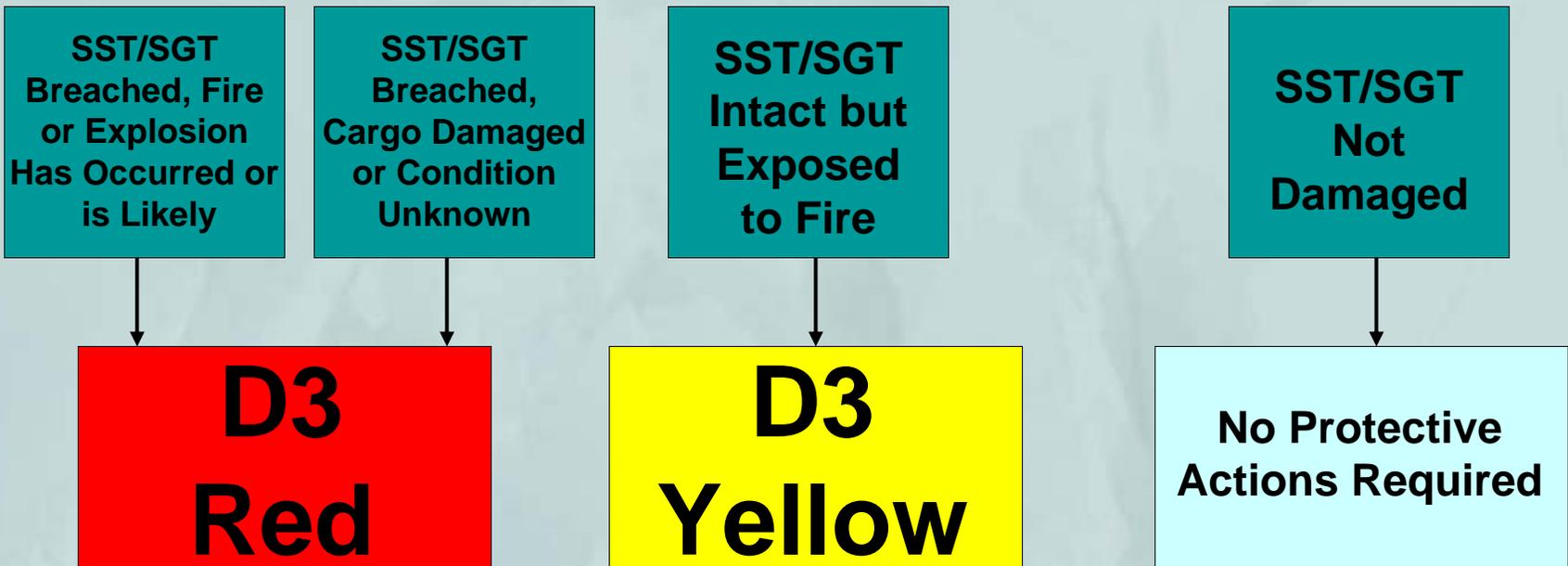
Echo III



Trip Manifest

Unclassified										
TRIP MANIFEST										
(U)	Trip ID:	A03-299 Revision: 005							02/24/2003 13:1	
(U)	Planner:	Clark, Dave							Page 2 of 3	
(U)	Segment:	1								
(U)	Resources required:									
	Tractor	SST	SGT	Escort Vehicle	Other Vehicle	Railcar	Aircraft	Fed Agents	Other Person	
departure										
(U)	Depart	(ANG)	AIR NATIONAL FIELD, KNOX AIR at:00:00 EST 01/01/0111					No street address available KNOXVILLE AIRPORT, TN		
(U)	Special instructions for departure:									
(U)	Load the following shipments before departure on this trip segment:									
	Shipment ID	Shpr	Rcvr	Class	Qty	Wgt	Type/Size	Tie Down	Primary / Secondary Hazard	
	OR03Y0017	FZF1	AWA1	SRD	10	1080	DT-20 146 GAL.DRUM 30Lx30Wx53H 146	Type B Container Manual	GUIDE 165 R-2 GUIDE 138 T-2 PAR CARD:DELTA III	
	Serial #: Not Specified									
	Notes: EMERGENCY RESPONSE# 865-574-7172 THIS IS DP MATERIAL.									
	OR03Y0013	FZF1	AWA1	SRD	10	660	DT-23 (89012) 33Wx41H 109 Gal.	Type B Container Manual	GUIDE 165 R-2 GUIDE 138 T-2 PAR CARD:DELTA III	
	Serial #: Not Specified									
	Notes: EMERGENCY RESPONSE# 865-574-7172 THIS SHIPPING ID IS FOR DP.									
	Total Weight to Load = 17400 lbs.									
	Weight on Board = 17400 lbs.									
arrival										
(U)	Arrive	(ANG)	AIR NATIONAL FIELD, KNOX AIR at: 11:11 EST 01/01/0111					No street address available KNOXVILLE AIRPORT, TN		
(U)	Special instructions for arrival:									
(U)	Unload NO shipments after completing this trip segment.									
	Weight on Board = 17400 lbs.									

Delta III



Delta III YELLOW Card

Not to Scale



Incident
Site

YELLOW

1. The United States Department of Energy recommends that state and local agencies **SHELTER IN PLACE** the public and nonessential emergency response personnel within **½ mile (800 meters)** of the event scene based on a potential radioactive material release hazard.
2. For those sheltered in place, instruct personnel to close all windows, cover openings, and shut off heating and air conditioning or other ventilation systems that bring in air from outside. Stay inside, away from windows, and in basement or ground floor rooms if possible. Individuals should shelter in vehicles if other alternatives are not available.
3. Airborne particulate contamination and explosion are the primary hazard. Appropriate Protective actions should be taken by the personnel responsible for initiating or Conducting shelter-in-place/evacuation notifications to the public.
4. Restrict access to and movement in the sheltering zone as much as possible to avoid resuspending radioactive contamination that has settled on the ground. Essential movement in the area should be at slow speeds if possible.

Delta III RED Card

Not to Scale



RED

1. The United States Department of Energy recommends that state and local agencies **SHELTER IN PLACE** the public and nonessential emergency response personnel within 1/2 mile (800 meters) of the event scene and in an area approximated by a 60-degree arc extending about 4.5 miles (7.3 km) downwind, based on a potential radioactive material release hazard.
2. For those sheltered in place, instruct personnel to close all windows, cover openings, and shut off heating and air conditioning or other ventilation systems that bring in air from outside. Stay inside, away from windows, and in basement or ground floor rooms if possible. Individuals should shelter in vehicles if other alternatives are not available.
3. Airborne particulate contamination and explosion are the primary hazard. Appropriate Protective actions should be taken by the personnel responsible for initiating or Conducting shelter-in-place/evacuation notifications to the public.
4. Restrict access to and movement in the sheltering zone as much as possible to avoid resuspending radioactive contamination that has settled on the ground. Essential movement in the area should be at slow speeds if possible.

PAR Updates

- **Initial assessment is available within one hour and may be altered as circumstances change.**
 - **EM team assists in the one hour assessment and runs a Plume model if necessary.**
- **Recommendations rely on input from IC on scene.**

PAR Updates (Con't.)



- **The IC is required to provide assessments every hour and reports to OST EM.**
- **EOC/ARG and RAP provides recommendations when the Sr. Energy Official assumes command.**

Summary

- **The PAR card set and matrix assist the IC to make initial determinations regarding the condition and state of cargo.**
- **Information must be provided to local officials immediately following the occurrence of an accident and as soon as practical when involved in a hostile environment.**

Questions

