

United States
Department of Energy
National Nuclear Security Administration
International Nuclear Security

Brazil TTX

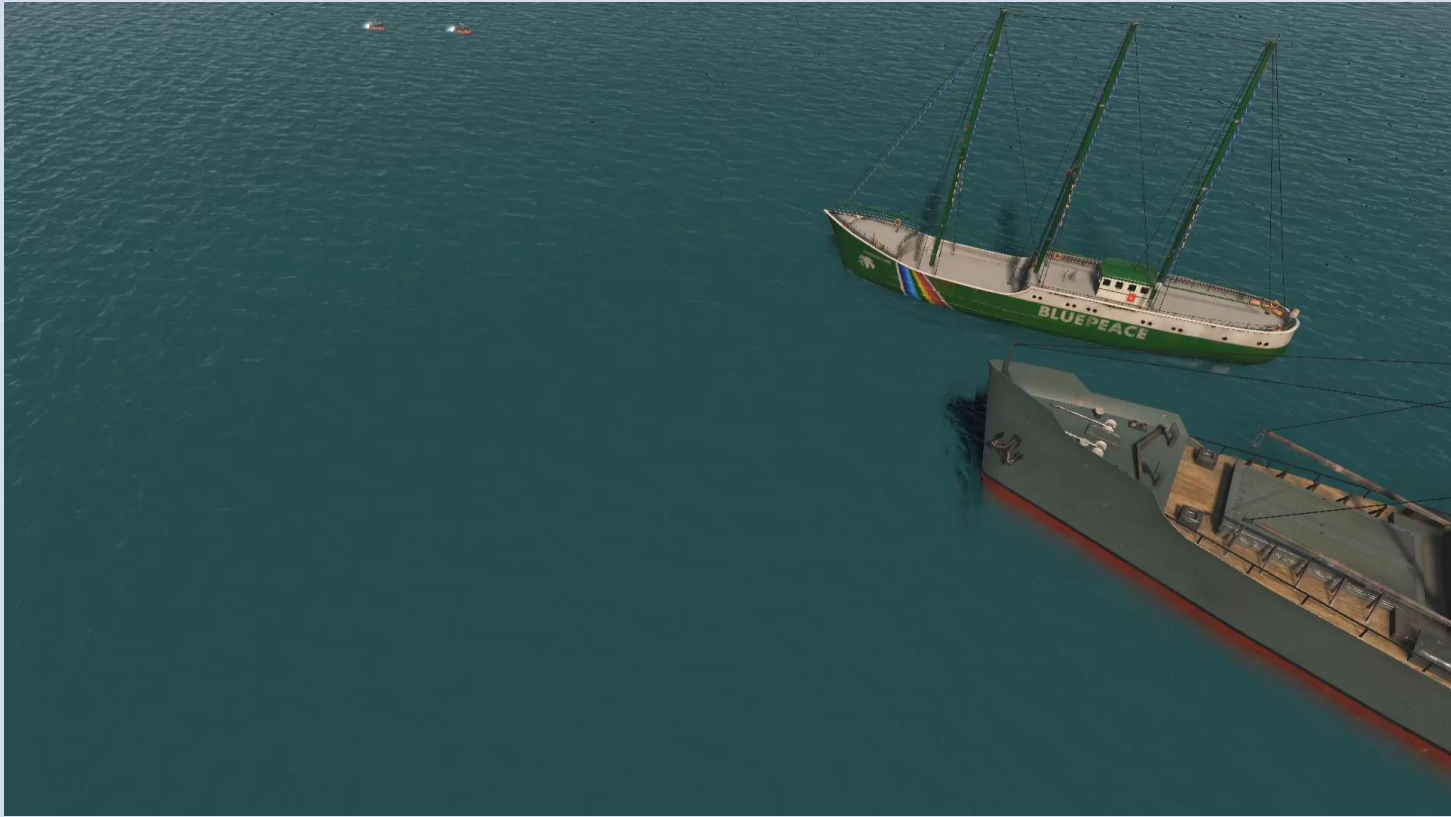
Day 1: Ship to Shore


Ship to Shore


Start Time = nautical pre-dawn


Day 1 scenario foundation rests on the following sentence: “...BLUE Country carries out nuclear material transport operations, in accordance with its nuclear fuel cycle, which includes the need for *maritime transportation for the import of uranium hexafluoride* (UF₆), which is processed abroad. The UF₆ is disembarked at the main port of the BLUE country, in a specific terminal and, later, it travels by road, destined for the fuel cycle plant.”




Event	Stimulus	Visual Representation of Event
1	<p>The MV Barracuda scheduled to dock is making way towards a harbor. The Captain of the ship calls the harbor master to report that they were met at the sea buoy at the scheduled arrival time by a smaller vessel named the Rainbow Warrior. He reports his position at 11 nautical miles from the port but inside the sea buoy. The Rainbow Warrior is conducting unusual and aggressive maneuvers. These actions result in forced changes in speed, heading, and evasive maneuvers to avoid collision. Coast Guard response is requested.</p>	


Event	Stimulus	Visual Representation of Event
2	<p>Calls to emergency services from port workers indicate a demonstration has begun at the entrance to the port. The demonstration is creating a situation in which day-shift port workers are reluctant to report to work through the picket line, and night-shift workers are reporting difficulty in reaching their vehicles to go home. Law enforcement response is requested.</p>	



Event	Stimulus	Visual Representation of Event
3	<p>Additional groups of protestors begin arriving by busses, and the swelling crowd of demonstrators.</p> <p>Demonstrators are holding anti-nuclear signs and slogans. The crowd is growing increasingly agitated.</p>	

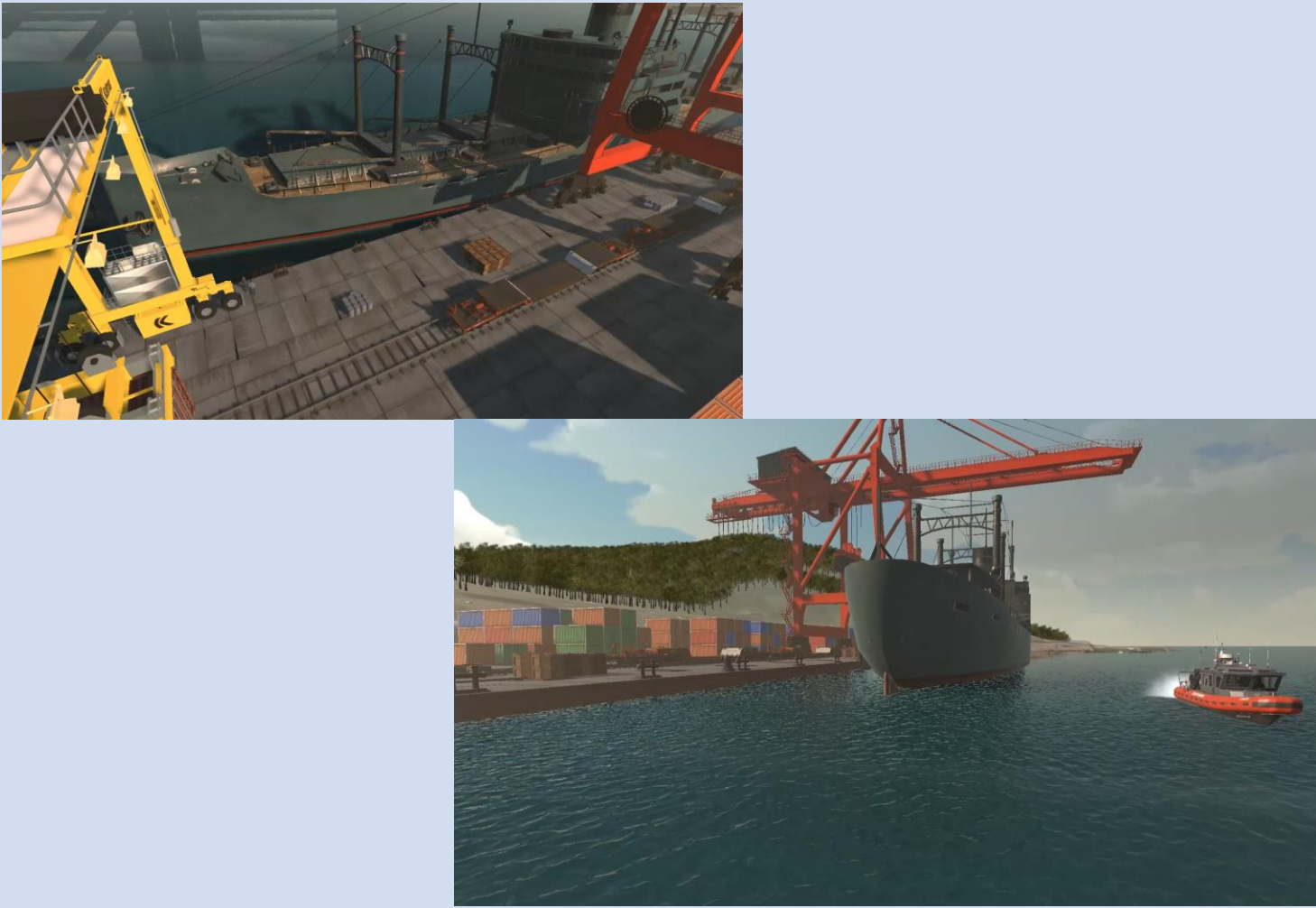
Event	Stimulus	Visual Representation of Event
4	<p>A news media helicopter has captured images of “BluePeace” flags that have apparently been hung on the stern and bow of the Rainbow Warrior.</p> <p>These images are being broadcast by the news agency that captured the images.</p>	


Event	Stimulus	Visual Representation of Event
5	<p>Traffic in the urban metropolitan vicinity surrounding the port is gridlocked. Emergency dispatch receives calls that traffic signals in the area are behaving erratically.</p>	


Event	Stimulus	Visual Representation of Event
6	<p>An announcement is made on social media targeted at the city police. A group identifying themselves as “Darknews” claims to have gained remote access into the metropolitan civil traffic authority’s control center to disrupt traffic control signals throughout the city. No demands are identified.</p>	


Event	Stimulus	Visual Representation of Event
7	<p>Port guards have made emergency calls reporting a number of fires in dumpsters that have been rolled into intersections and set alight. A civilian vehicle has been set on fire. Fire Dept response has been requested.</p>	


Event	Stimulus	Visual Representation of Event	
8	<p>The city fire department reports that traffic congestion in the vicinity of the port facility will make it impossible for their vehicles to respond to the demonstration in a timely manner. They request that Port Authority fire assets be moved from the port property to the entrance to the facility to render assistance with fire control.</p>		


Event	Stimulus	Visual Representation of Event
9	<p>The Barracuda completes docking at the port facility under escort. The Captain of the Barracuda requests an exterior damage inspection due to the incident. Administrative entry procedures are underway.</p>	


Event	Stimulus	Visual Representation of Event
10	<p>A power outage is reported throughout large areas of the metropolitan region, which includes the bay area, city hall, the 'old town' downtown area, and the wider industrial region surrounding the port facility. Reports indicated damage to electrical sub-stations and computer control centers that manage the electrical grid.</p>	

Event	Stimulus	Visual Representation of Event
11	<p>An announcement is reported on social media that a group identifying themselves as “Darknews” claims to have hacked into the Ministry of Infrastructure & Power control center to disrupt the electrical grid throughout the city. No demands are identified.</p>	

Event	Stimulus	Visual Representation of Event
12	<p>The Port Authority reports that intermittent power outages are hampering operations in the Port. The port's backup generators are switching on and off causing power flickers. Additionally, the inability of many employees to report to work due to the demonstration is preventing many Port operations from proceeding as planned.</p>	


Event	Stimulus	Visual Representation of Event
13	<p>Inoperative traffic signals and massive congestion are still hampering response efforts in the port area.</p>	 A photograph of a heavily congested city street, likely in New York City, showing traffic signals and cars. The street is filled with vehicles, including yellow taxis and a red bus, moving slowly through a dense urban environment with tall buildings lining both sides. The traffic appears to be at a standstill or moving very slowly, illustrating the 'massive congestion' mentioned in the stimulus text. A yellow traffic light is visible on the right side of the street.


Event	Stimulus	Visual Representation of Event
14	<p>The protests have continued to escalate. Protestors bearing Anti-Nuclear signs are engaged in acts of violence against nearby business venues, with vandalism, property destruction, and looting. Additional small fires have been set using what appear to be hand-held incendiary devices (Molotov cocktails).</p>	

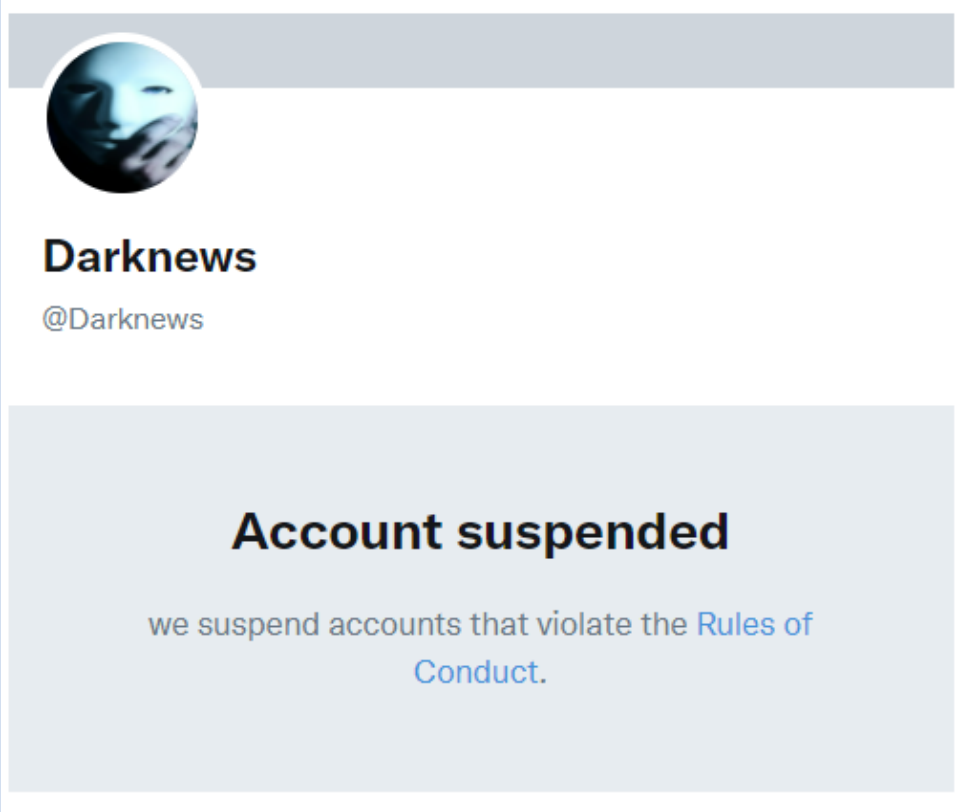
Event	Stimulus	Visual Representation of Event
15	<p>The Captain of the Cargo Vessel Barracuda reports that administrative entry requirements are completed; and that a preliminary inspection conducted by a nearby tugboat has revealed no damage from the harassment by the Rainbow Warrior.</p>	


Event	Stimulus	Visual Representation of Event
16	<p>The local news media station reporting on the situation at the Port announces they have received communication from a representative of Darknews. The group claims that they have allied with the extremist group the Antarcitics in their mission of “stopping the spread of nuclear filth” and that they have an operative on board the Barracuda</p>	 <p>The visual representation shows a screenshot of two tweets overlaid on a background of a globe with red and yellow grid lines. The first tweet is from Darknews (@Darknews) dated Nov 5, 2021, with the text 'The time has come. We will stop this with whatever it takes!'. It has 1.5K replies, 9.8K retweets, and 30.2K likes. The second tweet is from Antarcitics (@Antarcitics) dated Nov 5, 2021, with the text 'We're ready! We're with you! Let's do this!'. It has 5.3K replies, 3.4K retweets, and 16.8K likes. Both tweets include a profile picture and a three-dot menu icon.</p>

Event	Stimulus	Visual Representation of Event
17	The Port Authority attempts to radio the Barracuda. The Barracuda does not respond to this attempted contact.	

Event	Stimulus	Visual Representation of Event
18	<p>The local news media station reporting on the situation at the Port announces they have received disturbing images from a representative of the Antarcitics. A video claiming to be on board the Barracuda is being live-streamed over social media. The video appear to show a lone person along with palletized cargo in the form of steel pressure cylinders bearing radioactive labels. The person states that he has attached an improvised explosive device to the exterior of one of the tanks and will detonate the explosive unless the nuclear material is turned away from the port.</p>	 <p>The image shows a person wearing a red protective suit and gloves, working with several large yellow cylindrical tanks. The tanks have black and yellow hazard stripes and the word 'DANGER' is partially visible. The person is attaching a device, which appears to be a mobile phone or a small electronic device, to one of the tanks using red straps. The background shows a metallic structure, possibly part of a ship or a port facility.</p>

Event	Stimulus	Visual Representation of Event
19	News reports have initiated extreme public fear and emergency call centers are flooded with calls	

Event	Stimulus	Visual Representation of Event
20	After the live-streamed video, no further communications from Darknews or the Antarctica was received. All has gone silent.	

Event	Stimulus	Visual Representation of Event
21	<p>Resolution: the live-streamed video was staged and was not actually recorded on board the vessel. The Antarcitics had evidently built a replica of the interior of the Barracuda's from images obtained from a member of the crew. The communications equipment was found to be sabotaged</p> <p>A search of the vessel will reveal no IED, however investigations of the crew revealed that one crew member had accepted a large sum of money converted from Bitcoin in the past 6 months and his fingerprints were on the sabotaged communications equipment.</p> <p>Ultimately, the Antarcitics were successful in the goal of inciting mass fear of nuclear shipments and damaging the credibility of nuclear security despite no damage being done to the ship or the cargo.</p>	

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Day 2: Overland Transport


Overland Transport


Start Time = pre-dawn


Day 2 scenario foundation rests on the following sentence: "...GOLD State is conducting an overland nuclear transport. The nuclear material transported by four (4) trunk trucks is solid uranium dioxide metal. The uranium is enriched to 4% and is bound for a fuel fabrication facility. This enriched material is packed in several drum-style type "B" packages." This is a Category II shipment of nuclear material.


The four (4) trucks are loaded and prepared to depart, along with drivers, co-drivers, and escorts, between the hours of 0400 and 0600 on the morning of the scheduled transport. The Transport Command Center (TCC) is in fact the Integrated Center for National Command & Control (CICC-N) – either acronym works.





Event	Stimulus	Visual Representation of Event
1	<p>The Site Authority receives notification from the Protective Force elements at the planned point of departure from the facility (Gate 24) that a crowd of protesters has gathered near the gate, and has unfurled a banner and posted signs containing anti-nuclear messages. The protest appears peaceful at this time</p>	


Event	Stimulus	Visual Representation of Event
2	<p>The lead escort makes the decision to delay the planned departure for the truck convoy. All Drivers are notified to stand by their vehicles.</p>	

Event	Stimulus	Visual Representation of Event
3	The convoy proceeds out of the metropolitan area without further incident.	

Event	Stimulus	Visual Representation of Event
4	<p>One escort notices what appears to be surveillance of the convoy vehicles. Specifically, there appear to be a single man on a motorized scooter following the convoy and taking photographs of the trucks and recording the convoy movement using a mobile phone.</p>	 <p>The image is a composite. The top portion shows a close-up of a person wearing a black helmet with 'ATHLETICS' written on it, looking towards the right. The bottom portion is a rectangular inset showing a highway scene from a driver's perspective. A large yellow truck with 'JUM' on its side is in the right lane. A white van is in the left lane. The sky is overcast with some light breaking through the clouds.</p>

Event	Stimulus	Visual Representation of Event
5	<p>Reports are received of a large traffic accident involving multiple vehicles and injuries at an intersection 20 Km ahead directly along the planned primary route. Traffic is backing up in both directions as a result of this traffic accident.</p> <p>The convoy proceeds on the alternate route. The alternate route is on a standard 2-lane highway with no concrete median.</p>	

Event	Stimulus	Visual Representation of Event
6A	<p>TCC receives an emergency communication. An explosion has occurred at the front of the convoy. A vehicle which strangely appeared to have no driver (remote controlled) has collided head-on with the lead escort vehicle and a large explosion occurred simultaneously. This blocks the road and halts the convoy.</p> <p>The lead escort vehicle was destroyed in the collision and resulting explosion, and is currently on fire. All of the occupants of the lead escort vehicle are deceased.</p>	

Event	Stimulus	Visual Representation of Event
6B	Small arms fire has begun striking the remaining escort vehicles at long range from one or more concealed positions.	

Event	Stimulus	Visual Representation of Event
7	<p>A vehicle that was previously following the convoy at some distance have now approached within 50 meters of the rear escort and have dismounted five individuals armed with 7.62mm rifles and begun firing at escort personnel.</p> <p>One adversary fires a rocket propelled grenade at the rear escort vehicle and it is a direct hit. The vehicle is destroyed and all occupants in the vehicle are combat ineffective</p>	

Event	Stimulus	Visual Representation of Event
8	<p>The 3 adversaries begin maneuvering forward to the right and left sides of the highway under heavy suppressing fire from the other 2. Estimated arrival time for the reinforcement element is 20 minutes.</p>	


Event	Stimulus	Visual Representation of Event
9	Adversaries have flanked the convoy on both the right and left sides of the highway	


Event	Stimulus	Visual Representation of Event
10	Adversaries concentrate fire on the cab of Truck #4 (rear truck) and the drivers and co-driver are killed	


Event	Stimulus	Visual Representation of Event
11	<p>1 adversary maneuvers to Truck #4 and boards the cab under suppressing fire. He is able to turn the vehicle and Truck #4 drives away back the direction that the convoy came from.</p> <p>Escorts were able to hit the cab several times, possibly injuring the driver, but the theft of Truck #4 could not be prevented.</p>	


Event	Stimulus	Visual Representation of Event
12	<p>Adversaries continue to fire on escorts for 15 minutes after Truck #4 being driven away. At that point the adversaries suddenly stop their attack and withdraw to their vehicle, speeding away in the same direction as Truck #4</p>	


Event	Stimulus	Visual Representation of Event
13	<p>The outcome of the attack at this point: 8 friendly individuals KIA – 3 escort personnel who were in the lead vehicle when it was struck by a car bomb; 3 escorts in the rear vehicle which was struck by an RPG, and 2 civilian truck drivers for Truck #4.</p> <p>Additionally 2 escorts are wounded status is badly wounded but not life threatening, combat ineffective.</p> <p>There is also 1 Adversary KIA who was left behind when the Adversaries withdrew.</p>	


Event	Stimulus	Visual Representation of Event
14	<p>Truck #4 has been located by searching patrols and appears to have been abandoned at a warehouse on the outskirts of Topazio.</p>	

Event	Stimulus	Visual Representation of Event
15A	<p>The commanding officer of the recapture & recovery team sent to recover Truck #4 advises the incident commander while they were attempting to approach the vehicle to inspect the Type B package a booby-trap exploded an incendiary device which set the truck on fire.</p>	 <p>The image is a screenshot from a video game, likely Grand Theft Auto V, showing a scene in a rural or industrial area. In the foreground, a green armored vehicle (APC) is parked on a paved road. A person in dark clothing is running towards the vehicle from the left. In the background, there is a large brick building with a corrugated metal door and a blue truck with a container trailer parked nearby. The scene is set in a grassy area with trees and hills in the distance.</p>


Event	Stimulus	Visual Representation of Event
15B	<p>The Truck with the Type B package attached to the trailer is currently on fire. Fire department response is urgently requested. One person is burned and in need of medical assistance.</p>	


Event	Stimulus	Visual Representation of Event
16	<p>Radiological response team reports that their radiation detectors have begun detecting low levels of radioactive contamination everywhere, specifically, alpha radiation emitting contamination is present. This poses no health hazard unless it is ingested or inhaled.</p>	


Event	Stimulus	Visual Representation of Event
17	<p>The fire is under control and the firefighters report that they can see from a distance what appears to be a device with wires attached to one of the remaining packages! They have evacuated to a safer distance. The EOD team is called for</p>	


Event	Stimulus	Visual Representation of Event
18	<p>An EOD technician disposes of the device. Two of the 6 packages on board are open to the atmosphere and appears to be half empty. One has been detonated with an incendiary device and the second never went off.</p> <p>The remaining 4 packages are closed and have survived the fire and are intact. Uranium has been burned in the fire and the smoke from this fire contains a low-level plume of contamination</p>	


Event	Stimulus	Visual Representation of Event
19	The open package indicates that some of the missing material has been stolen and is now outside of regulatory control	

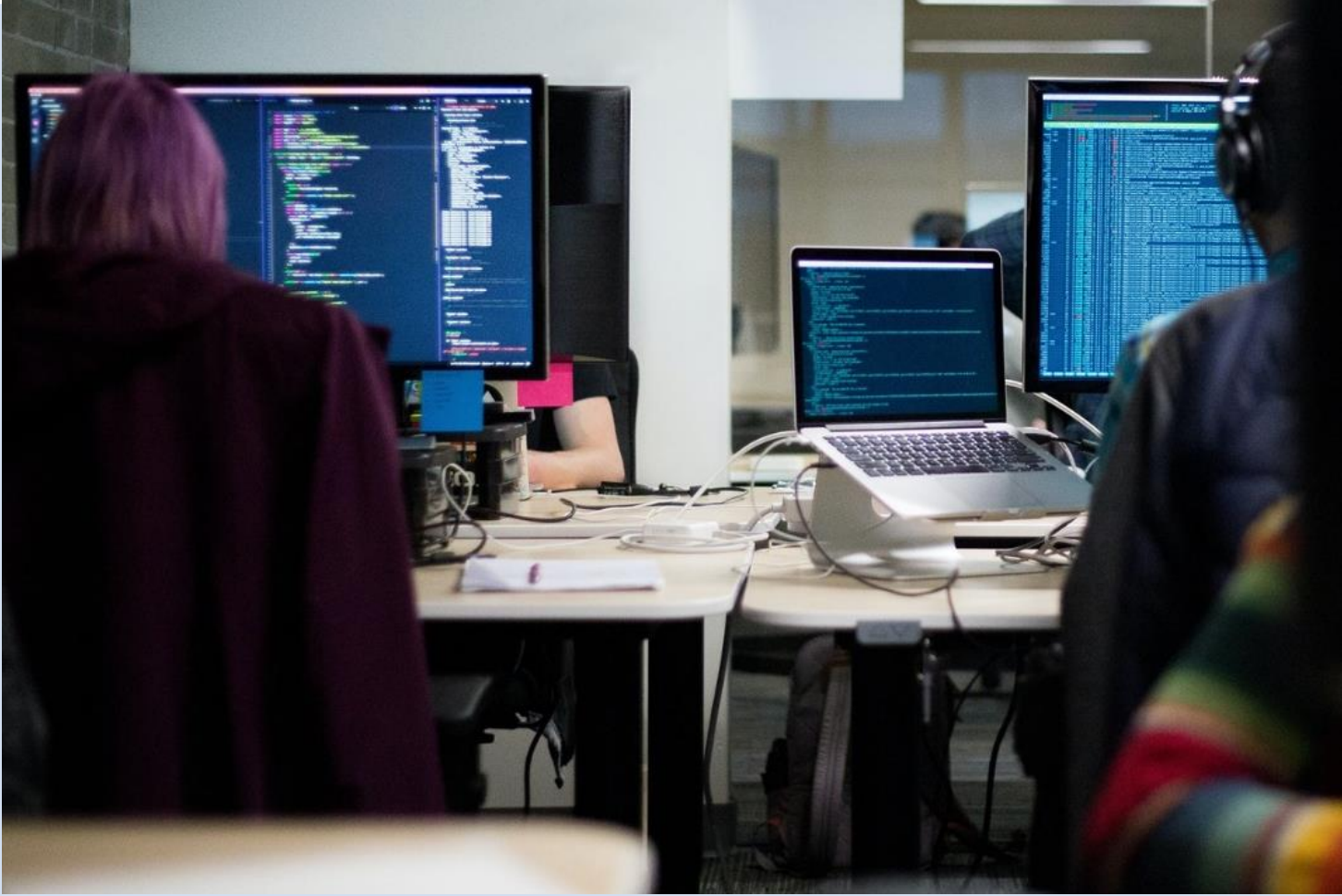
Event	Stimulus	Visual Representation of Event
20	The convoy is underway.	 An aerial photograph showing a convoy of vehicles, including several large orange trucks and a smaller car, traveling along a two-lane asphalt road that curves through a lush green landscape. The road is flanked by dense trees and grassy fields. In the background, a steep, rocky cliff rises on the left, and rolling green hills are visible under a clear blue sky. The scene is captured from a high angle, providing a clear view of the road and the surrounding environment.



Event	Stimulus	Visual Representation of Event
21	<p>The convoy personnel are in need of substance and biological rest breaks. The convoy has a pre-planned subsistence stop at the only available location along the route: the Bom Descanso Restaurante located in the Serra Dos Coqueiros mountains and will maintain this stop.</p>	


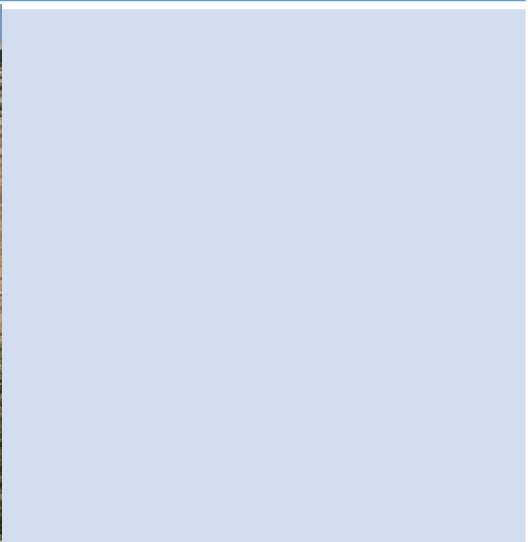

Event	Stimulus	Visual Representation of Event
22	<p>Just before entering the mountains escort elements report that they are switching to text-by-satellite communications. They have reached the pre-established point where radio and mobile phone communications become intermittent in the vicinity of the Sierra Dos Coqueiros mountain range. They anticipate having poor voice communications for approximately 2 hours while the mountains are traversed and the personnel receive food.</p>	

Event	Stimulus	Visual Representation of Event
23	<p>The convoy with escorts and truck #2 have arrived at the pre-planned subsistence stop at Bom Descanso restaurant located at a roadside stop for tourists in a mountainous rocky area. Security perimeter has been established and personnel will eat in shifts. The restaurant manager apologizes that they may be slow because one of their best servers has failed to arrive for her scheduled shift.</p>	 <p>The image is a 3D digital rendering of a roadside restaurant scene. On the left, there is a single-story building with a grey roof and red and white walls, labeled 'FastFood' in red letters. A parking lot with a few cars is in front of it. To the right of the building is a paved road with white dashed lines. A small black car is driving on the road, and further ahead, a large orange and blue truck is visible. The background features a lush green field, several tall trees, and a prominent, rocky mountain peak under a blue sky with scattered white clouds.</p>

Event	Stimulus	Visual Representation of Event
24	<p>While some escorts were outside the restaurant and some inside, a sniper opened fire from a concealed position in an unknown direction. The sound of the shot echoes around the rocky hills. 1 escort is KIA</p>	

Event	Stimulus	Visual Representation of Event
25	<p>A duress signal is sent from the convoy to the TCC via satellite indicating urgent assistance is needed. Attempts at verbal communication via mobile phone have resulting in the TCC being aware that another attack has occurred, but interference cut the call</p>	 <p>A photograph showing a person from behind, sitting at a desk in a control room. They are looking at a large computer monitor displaying a complex interface with many small text elements, likely a data visualization or a code editor. The person is wearing a headset. The desk is cluttered with various items, including a laptop, a mouse, and some papers. The background shows other people working at similar desks, suggesting a busy operational environment.</p>

Event	Stimulus	Visual Representation of Event	
26	2 escorts have been struck by sniper fire one is KIA and one is in life threatening condition. Communications are still limited		 

Event	Stimulus	Visual Representation of Event	
27	<p>The SWAT team arrives by air and quickly locates the sniper in a cluster of rocks in an elevated position approximately 300 meters from the convoy. The SWAT Team's arrival has caused the sniper to stop firing his rifle and stand up. He can be seen from a distance holding a handgun and using a woman as a human shield, with her hands tied.</p>		
			

Event	Stimulus	Visual Representation of Event
28	He issues a demand to be allowed to leave the area or he will kill his hostage.	