Directions: Using the RCM Decision Diagram, assess the consequences of the following:

	EVIDENT			HIDDEN		
	S/E	O	NO	S/E	O	NO
EXAMPLE **1. Rollercoaster structure fatigues.** Structural members collapse.						
2. The motor bearing that drives a ski chair lift seizes. Skiers are stuck on the chair lift for 1 hour while the motor bearing is replaced. 50% refund is issued on the cost of all lift tickets.						
3. Mobile Power Unit diesel engine fuel filter clogs. Eventually fuel flow to the engine stops. Power supply to the aircraft is lost.						
4. Freon line in a mobile air conditioning unit ruptures. All of the Freon is depleted to the atmosphere.						
5. Tow Tractor comfort cooling fan fails. Operator rolls down the windows and continues towing operations.						
6. Electric motor fails. The motor stops running, and the compressor shuts down. Production is interrupted at a cost of $100,000 while the electric motor is replaced.						
7. Hydraulic system pressure safety valve fails closed. Valve is unable to relieve pressure in the event that the pressure exceeds 4,000 psi. This causes hydraulic components to rupture.						
8. Tow tractor pintle hook light bulb burns out. Operator uses flashlight to illuminate the pintle hook and carries on with towing procedure.						
9. Joe's lawnmower fails. He borrows his neighbor's lawnmower and finishes the job with negligible interruption. He is still able to watch the football game.						
10. Steering mechanism on an oil tanker fails during a storm. Tanker runs aground and spills 66 million gallons of crude oil.						
11. Shear pin is replaced with a bolt. In the event of overload, cable snaps and personnel in the vicinity can be seriously injured by the whipping cable.						
12. Battery dies in a pizza delivery vehicle; vehicle can't be started. The back-up vehicle is used to make the delivery without delay.						
13. Fire extinguisher is missing. Incapable of extinguishing flames in the event of a fire.						
14. Hydraulic supply line internally degrades. Line eventually ruptures and immediately releases an uncontrolled stream of high-pressure hydraulic fluid.						
15. Boiler fire box fuel nozzles clog. Unable to ignite the firebox flame. Causes two hours downtime at a loss of $50,000.						
16. Engine fuel line standoff bracket tack weld fatigues due to normal system vibration Fuel leaks on the combustor and causes an engine fire.						
17. Tow tractor engine oil reservoir is not replenished after maintenance. Engine seizes and causes internal engine damage.						
18. Engine oil low level warning light system fails open. Incapable of alerting the operator in the event of a low oil situation.						

*For training purposes only.

Copyright © The Force, Inc. 2017 All Rights Reserved