



Truck Driving Safety





What is RADAR?

A hazard assessment process that can be used to help safely address <u>upset conditions</u> and prevent incidents from occurring



Note: The RADAR process is not a new safety program. It is a useful resource that will help you to manage one of the primary causes of injury - upset conditions.



What is an Upset Condition?

- Upset conditions are interruptions in the regular running of the work process, equipment or other planned activity
- Any distraction or break in the normal work routine is considered an Upset Condition

Upset Condition = Unplanned Event

- Examples of Upset Conditions are:
 - Unscheduled maintenance a break down!
 - A unidentified hazard is encountered
 - Anything that distracts your thinking from the task at hand







Why do we need to Recognize Upset Conditions?

- Upset conditions greatly increase the risk of harm or injury while doing your work
- Incident reviews suggest that you are up to 35 times more likely to be injured while working during an upset condition than during normal operating conditions
- We are trained to do a job a certain way and when something happens outside of the way we are trained we then have to make a decision on what to do – that is when we have to assess the options of what we are about to do and make the safe choice









RADAR - The Process

Recognize the risk

Assess the situation – stop to think

Develop a safe solution

Act safely to fix the problem



Report and record the *upset condition*



When to use RADAR?

When you notice you will be facing an unplanned event such as:

- ✓The use of unplanned force
- $\checkmark The use of a tool not designed for the task$
- Anything unexpectedly jammed, stuck or hung up
- ✓ Before performing maintenance
- Anytime lockout is required
- "On the fly equipment modifying" to make stuff work
- ✓When you feel pressured and you start to rush







Recognize the Risk

If you find yourself saying any of the following:

- This will be a quicker way to do it...
- It looks like it will hold (I'm sure it's strong enough)....
- This tool, equipment is not performing the way it should...
- I am getting tired of dealing with this over and over again!
- I know I could use some help but don't want to ask for it...
- This will only take a second. I think I can get it done without getting caught- it will take longer to do it the safe way
- IF you are feeling any level of frustration or anxiety...
- ...then you need to say to yourself "RADAR!" -
- Stop and listen to the "little voice" in your head.











Assess the Situation – Stop to Think

Visually imagine the hazards you are facing.

Ten steps or questions you must ask yourself when using RADAR during an upset condition:

1.Surroundings What is coming at me or up from behind?
2.Tools Do I have all the tools I need today?
3.Other people Is anyone in the line of fire?
4.Breaks free Where does it go if it lets go?
5.Weight Weight and distribution OK?
6.Position Could I strain myself?
7.PPE Do I have the correct PPE for the task?
8.Lockout If I have to stop & block what do I have?
9.Trained Am I trained to do the task?
10.Help Do I need extra eyes or hands?







Is there a potential to be contacted by a moving part?

Where are the things that can hurt me?

Are the tools and equipment I am using adequate?



2. Tools?

- Do I have the right tool for the job?
- Do I know how to use it safely?
- Is the tool in good shape, including guards & cords if applicable?
- Is the tool sharp if necessary?
- What are the hazards associated with using the tool?







3. Other People



- Is anyone in the line-of-fire?
- Are people alert to what I am doing?
- Is there good communication ?
- Do we know what each other is doing?
- Is there enough room to pass or move over safely?



4. Breaks free?

- Do I know where I am going to slide?
- Where does the force go if it lets go?
- What is going to happen?
- What will happen if I loose traction or grip?





5. Weight?

- Is the load too heavy?
- Is it secure?
- Do I ask him to take off the last log?
- Are there any branches that need to be trimmed off?
- Is there a log that could fall or slip?
- Do I need to seek help?





6. Position?

- Is my position, posture, stance correct?
- Is it possible I could strain myself with this task?
- Am I in a congested area?
- What am I doing that may be putting me at risk?





7. **PPE**?

Do I have the right PPE for the job?

- Gloves
- Hard Hat
- Hi vis vest
- Safety boots
- Glasses
- Seat belt

Does the PPE fit me?













Is the PPE in good condition?



8. Lockout?

- Electrical
- Pneumatic
- Hydraulic
- Chemical
- Gravity
- Pressure
- Thermal
- Stored energy

Have I tested the system?

Have I achieved zero energy?





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9. Trained?

- Have I been trained for what I am about to do?
- Have the people helping me been trained?
- Am I certified and qualified to perform the function I am about to do?
- Am I familiar with the Safe Work Procedure for this task?





10. Help?

- Get a second set of eyes involved. A second opinion on your assessment
- Call for certified and qualified assistance. You know what needs to be done but you are not certified and qualified to do it
- You can't see a safe solution STOP and ask for help
- Asking for help is a sign of strength, trust and leadership. Two minds together can accomplish far more than two minds individually



Develop a safe solution Based on 10 step assessment, develop a safe solution – look for the options.

- Think through the 10 steps thoroughly and develop a plan to complete the task
- Ask yourself, "If I follow my plan, can I deal with the Upset Condition safely"?
- If the answer is "yes", proceed to Act safely to fix the problem
- If the answer is "no"
- If the answer is "I think so" assistance

STOP and call for assistance

and call for

Act safely to fix the problem

Execute the plan as you have developed it

- Take the time to re-examine your situation if it appears you will have to change your plan
- If anything unexpected happens while executing your plan, STOP
- Do not carry on with the plan until you know you can "Act safely to fix the problem"





Report and Record the Upset Condition

- Share the information on what happened and what you did to fix it – use the near miss reporting process or the RADAR observation report
- Report in to the supervisor to explain the issue and discuss a permanent solution.....WHY?

Given the right conditions and time, an unreported Upset Condition is one that will be repeated – and could hurt you or your fellow worker.



Why use RADAR?



For all the things that are important to you...

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Truck Loading Video





Quick Quiz: Choose the best answer

1. What is RADAR used for?

- a) A process used by any worker to safely address Upset Conditions and prevent injuries from occurring
- b) A technical term used by managers to assess contracts
- c) A process to eliminate the need for all the planning that takes place in the first place
- d) A measure of a person's ability to think in stressful situations



Quick Quiz: The best answer is in green.

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2. The first "R" in RADAR stands for "Recognize the Risk". What might indicate that the risk is high and a RADAR assessment should be done.

- a) You find yourself saying "I think it's strong enough"
- b) You find yourself saying "I know a faster way to do this"
- c) You find yourself saying "I know I need help, but I don't want to ask for it"
- d) All of the above



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3. Incident reviews show that you are up to times more likely to be injured while working during an upset condition than during normal operating conditions.

a) 2

- b) 10
- c) 35

d) 90



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4. Given the right conditions and time, an unreported Upset Condition is one that will be repeated.

True False

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4. Given the right conditions and time, an unreported Upset Condition is one that will be repeated.

True False

And the more the Upset Condition is repeated, the more likely there will be an injury that results





5. I must STOP and NOT proceed with my task if I am unable to come up with a safe solution.

True False

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5. I must STOP and NOT proceed with my task if I am unable to come up with a safe solution.

True False

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BC Forest Safety Council Resources

- Contact us at 1-877-741-1060
- Check out our website at <u>www.bcforestsafe.org</u> for hazard alerts, training calendars, general safety program information and specific information on Transportation Safety

