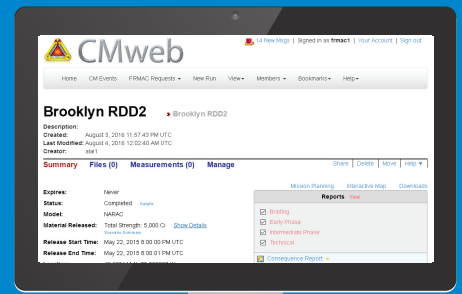




10 Point Monitoring Plan CMweb

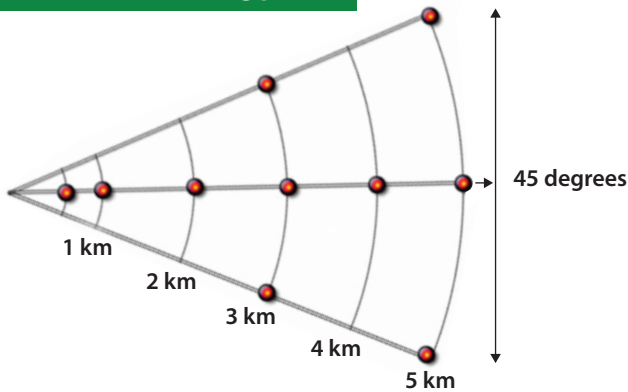


CMweb URL: <https://cmweb.llnl.gov>
NARAC Exercise/Emergency: (925) 424-6465
NARAC Customer Support : (925) 422-9159
CMHT: 702-734-1665
Advisory Team: 866-300-4374

Access to runs in the NARAC folder may need to be requested from CMHT or NARAC Customer Support.

The purpose of 10 Point Monitoring Strategy is to provide a quick and standardized method for rapidly gathering initial monitoring data after a release of radioactive material.

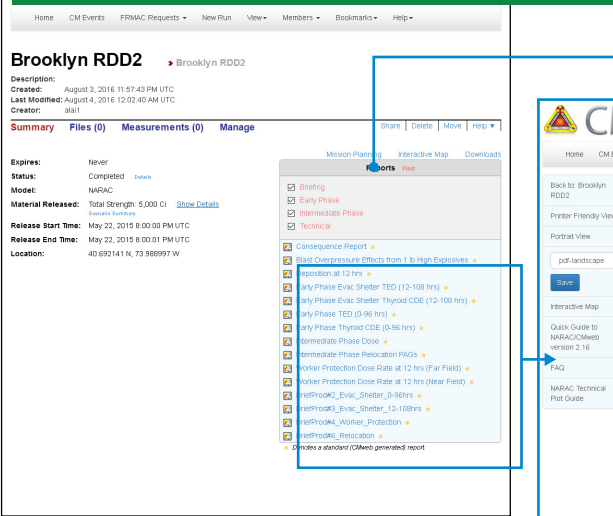
Initial 10 monitoring points



The initial 10 monitoring points are:

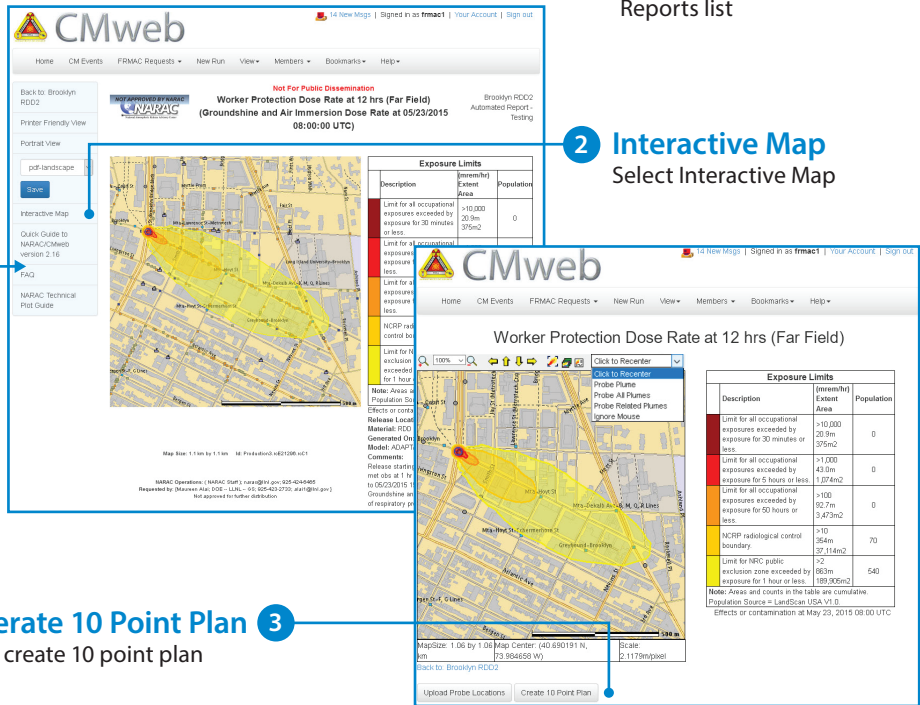
- Directly downwind from the release point as close to the release as safe for responders
- 1 km, 2 km, 3 km, 4 km, and 5 km directly downwind
- 3 km and 5 km downwind at 22.5 degrees on both sides of plume centerline

Create a 10 Point Monitoring Plan from CMweb



1 Choose Plot
Select plot of interest from Reports list

2 Interactive Map
Select Interactive Map



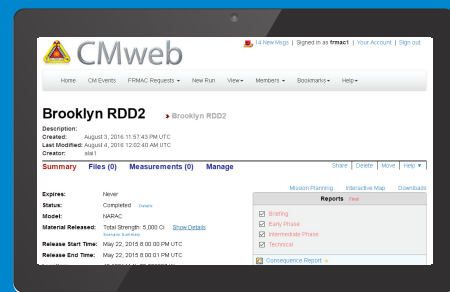
Probe locations are generated by the 10 Point algorithm.

Instructions continue on page 2.

3 Generate 10 Point Plan
Select create 10 point plan



10 Point Monitoring Plan CMweb



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Worker Protection Dose Rate at 12 hrs (Far Field)

Description	(mrem/hr) Extent Area	Population
Limit for all occupational exposures exceeded by exposure for 30 minutes or less.	>10,000 20.9m 375m ²	0
Limit for all occupational exposures exceeded by exposure for 5 hours or less.	>1,000 43.0m 1,074m ²	0
Limit for all occupational exposures exceeded by exposure for 50 hours or less.	>100 92.7m 3,473m ²	0
NCRP radiological control boundary.	>10 354m 37,114m ²	70
Limit for NRC public exclusion zone exceeded by exposure for 1 hour or less.	>2 863m 189,905m ²	540

Note: Areas and counts in the table are cumulative.
 Population Source = LandScan USA V1.0.
 Effects or contamination at May 23, 2015 08:00 UTC

Probe name	Product	Latitude	Longitude	Value	Unit	Rename
<input type="checkbox"/> Probe00	Worker Protection Dose Rate at 12 hrs (Far Field)	40.690009 N	73.983783 W	5.077794E0	mrem/hr	Rename
<input type="checkbox"/> Probe01	Worker Protection Dose Rate at 12 hrs (Far Field)	40.687877 N	73.978570 W	1.442619E0	mrem/hr	Rename
<input type="checkbox"/> Probe02	Worker Protection Dose Rate at 12 hrs (Far Field)	40.683612 N	73.968142 W	2.832719E-1	mrem/hr	Rename
<input type="checkbox"/> Probe03	Worker Protection Dose Rate at 12 hrs (Far Field)	40.679348 N	73.957715 W	1.171312E-1	mrem/hr	Rename
<input type="checkbox"/> Probe04	Worker Protection Dose Rate at 12 hrs (Far Field)	40.675084 N	73.947288 W	5.915485E-2	mrem/hr	Rename
<input type="checkbox"/> Probe05	Worker Protection Dose Rate at 12 hrs (Far Field)	40.670820 N	73.936860 W	4.158248E-2	mrem/hr	Rename
<input type="checkbox"/> Probe06	Worker Protection Dose Rate at 12 hrs (Far Field)	40.669435 N	73.953673 W	4.738768E-3	mrem/hr	Rename
<input type="checkbox"/> Probe07	Worker Protection Dose Rate at 12 hrs (Far Field)	40.687631 N	73.930125 W	6.89797E-4	mrem/hr	Rename
<input type="checkbox"/> Probe08	Worker Protection Dose Rate at 12 hrs (Far Field)	40.671216 N	73.966534 W	1.773639E-4	mrem/hr	Rename
<input type="checkbox"/> Probe09	Worker Protection Dose Rate at 12 hrs (Far Field)	40.657268 N	73.951560 W	6.954079E-6	mrem/hr	Rename

Export options: CSV | Excel

Buttons: Upload Probe Locations, Remove Selected Probes, Create 10 Point Plan

4 Probe Locations

- 10 Point Plan locations will appear on map
 Note: you may have to zoom out on the map to see all the points.
- Additional probe locations can also be created by using controls from pulldown menu or clicking anywhere on the map.

5 Adjustment to Probe Locations

Adjustment to probe locations can be made by changing the Latitude and Longitude

Probe locations may need adjustment if the original plan's probe locations result in:

- No contamination found during initial monitoring
- The locations are not accessible due to obstruction or terrain features
- Higher levels of contamination are found more toward one side of the plume than the other
- Higher contamination levels are found at farther distances than close in points

A 10 point tool can be found under the CMweb Help.

NARAC Technical Plot Guide

Mission Planning Tool User's Guide

Ten Point Monitoring Plan Guidance

NARAC Shapefile Guidance

NARAC Dose Factors Used for Total Effective Dose

File dialog box: Opening 10point_CALC_redo loc.xls

Probe locations created by another tool can be uploaded from a .csv file.