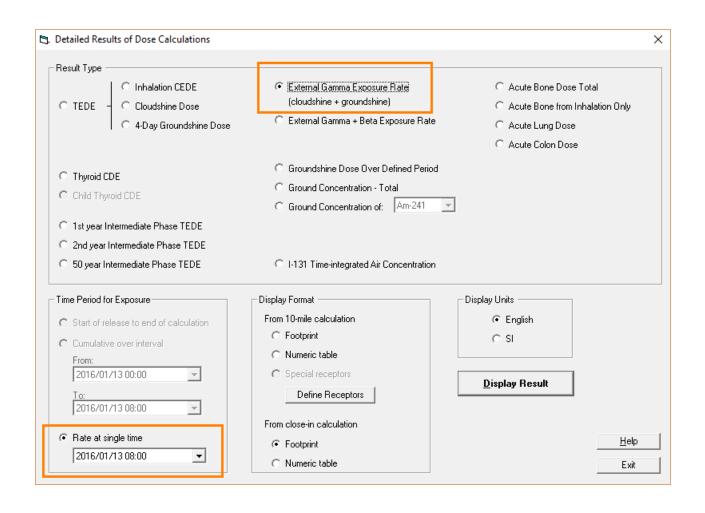
COMPARE STDOSE RESULTS TO FIELD MEASUREMENTS

Part of the RASCAL Instructor-led Training

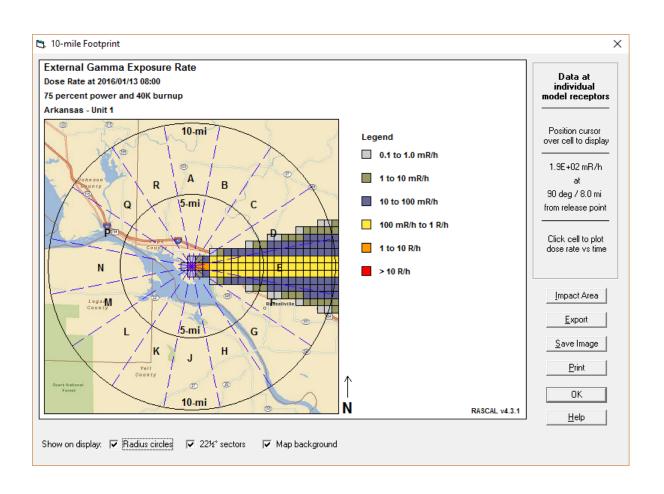
FIELD TEAM - BACKGROUND

- STDose vs FMDose
 - STDose projects gamma readings for deposition on the ground
 - FMDose converts concentration at a single location to intermediate/long term doses
- Field Team Measurements
 - Types
 - Communication Process
 - Roles/Expectations

ONE OF THE DETAILED RESULTS OPTIONS IS TO VIEW THE GAMMA DOSE RATE



USE YOUR CURSOR TO INTERROGATE THE CELLS



FIELD TEAM - SCENARIO

For the previous incident at Koeberg Unit 2, field teams have been dispatched and reported measurements at 18:00 local time. Do these readings confirm that the RASCAL TED and Child Thyroid CED projections are representative of the impact?

Field Team & Location	Gamma Reading	I-131 Air Concentration
Team 1 4 km downwind on the centerline	3.1E-02 mSv/h	8.62E-02 kBq/m3
Team 2 13 km downwind on the centerline	8.2E-01 mSv/h	1.7E+01 kBq/m3

FIELD TEAM - RESULTS

Field Team	Measurement	Field Team Reading	RASCAL Results
Team 1 4 km downwind on the centerline	Gamma	3.1E-02 mSv/h	2.7E-02 mSv/h
	I-131	8.6E-02 kBq/m3	0
Team 2 13 km downwind on the centerline	Gamma	8.2E-01 mSv/h	7.5E-01 mSv/h
	I-131	1.7E+01 kBq/m3	1.5E+01 kBq/m3

Conclusions?

- STDose vs FMDose
- What if RASCAL is higher than field team? Lower?
- Will there always be a centerline? Will it always represent the highest dose for that distance?
- If using STDose, may be possible to adjust model parameters to best fit to field team readings.