Results of Mesa Del Sol measurements to Date.

(Follow-up on March 26 and April 17, 2007 Status Report recommendations).

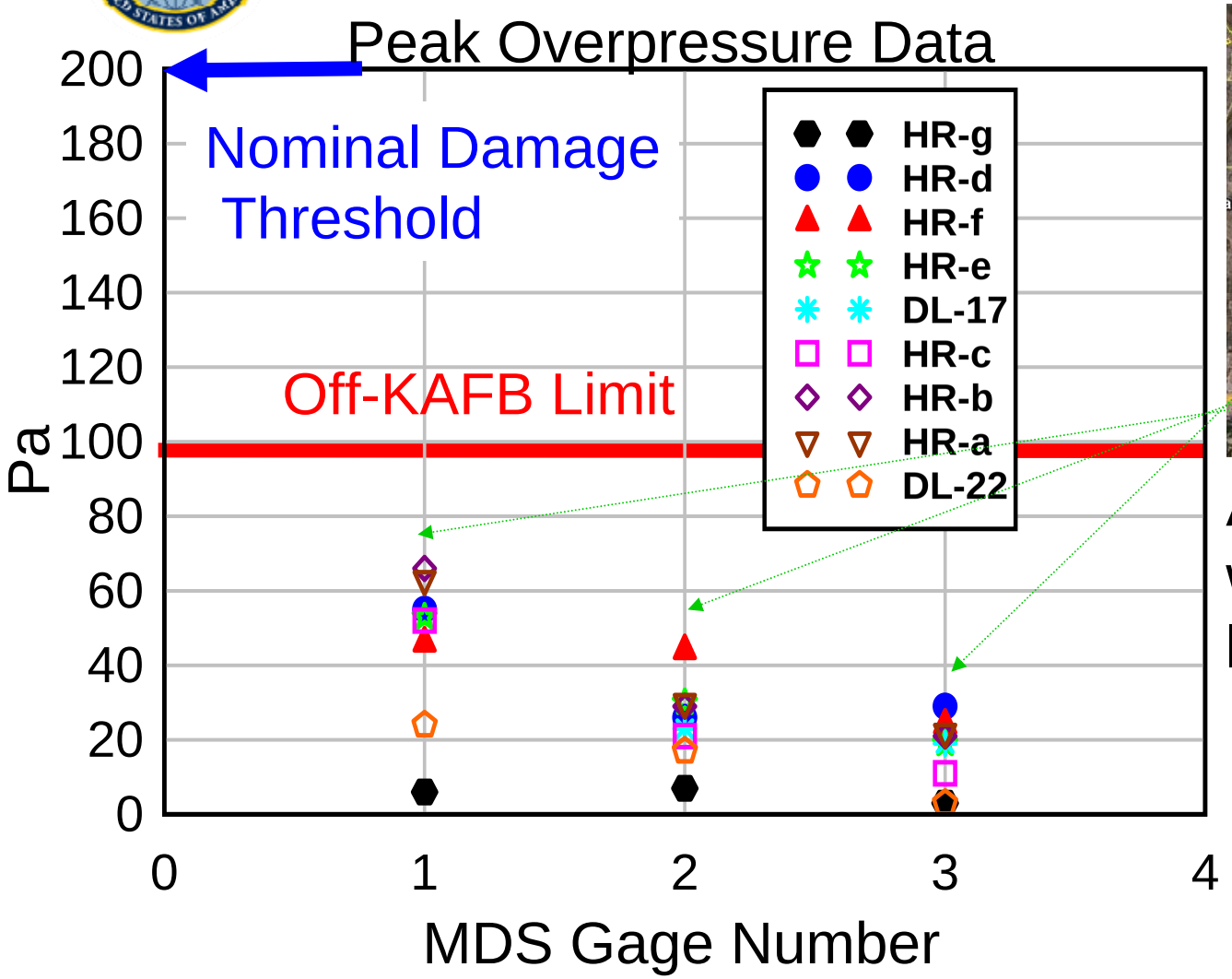
Study Status Report

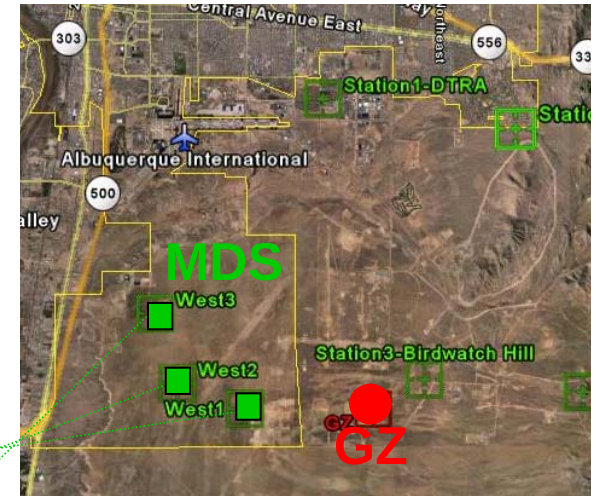
Prepared by Shuichi Hikida and Monica Kimberly October 16, 2007.

Outline

- Measurements of acoustic level at Mesa Del Sol from recent 1450 lbs high explosive tests (9).
- Analysis of DTRA predictive methodology (BLASTO) with respect to measurements at Mesa Del Sol.

MDS Test Data From Recent Tests (9 tests with 1450 lbs explosive)

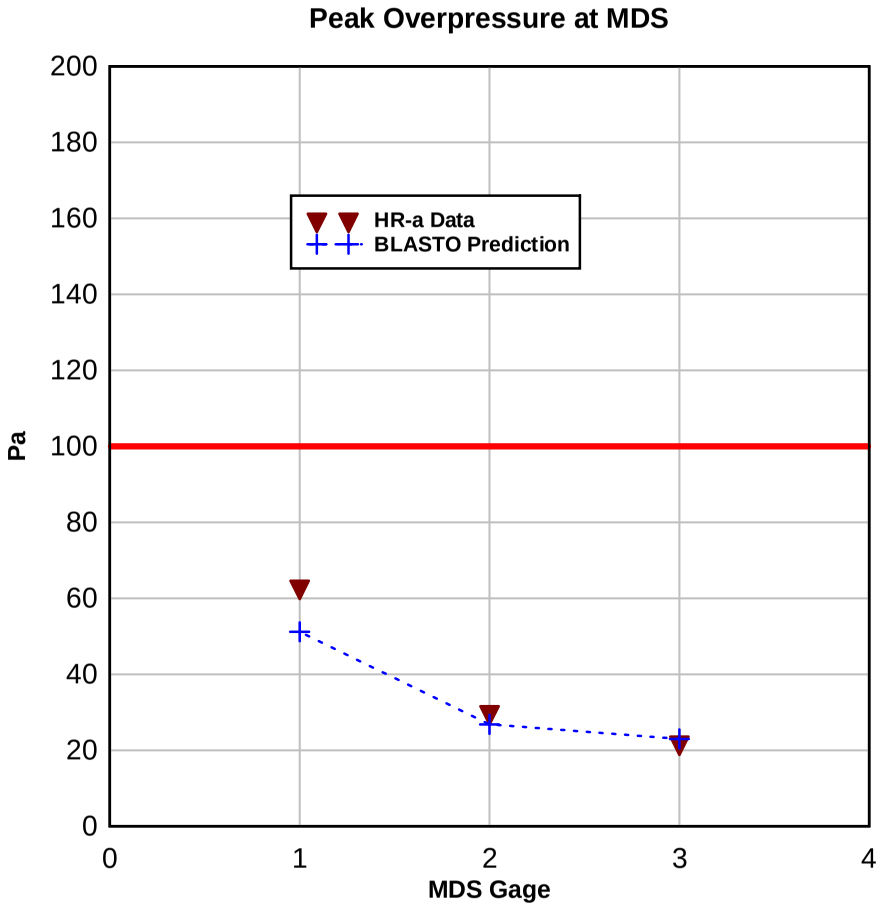




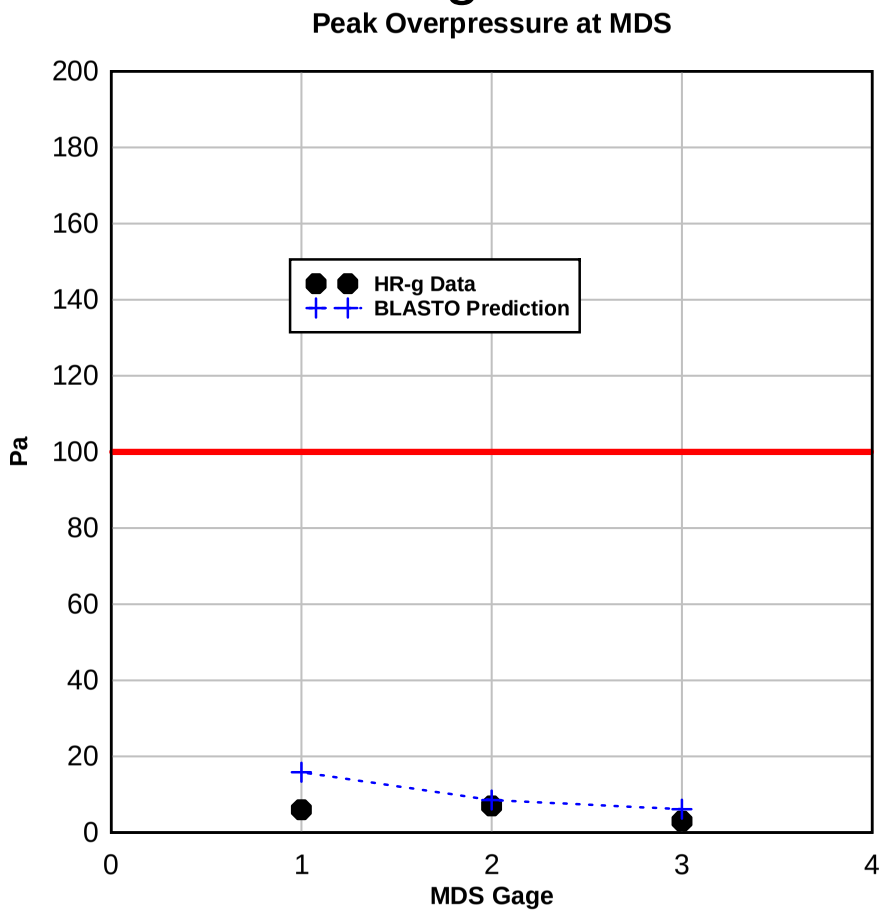
All measurements were below 100Pa limit.

Examples of BLASTO Predictions
MDS Gages

HR-a Test

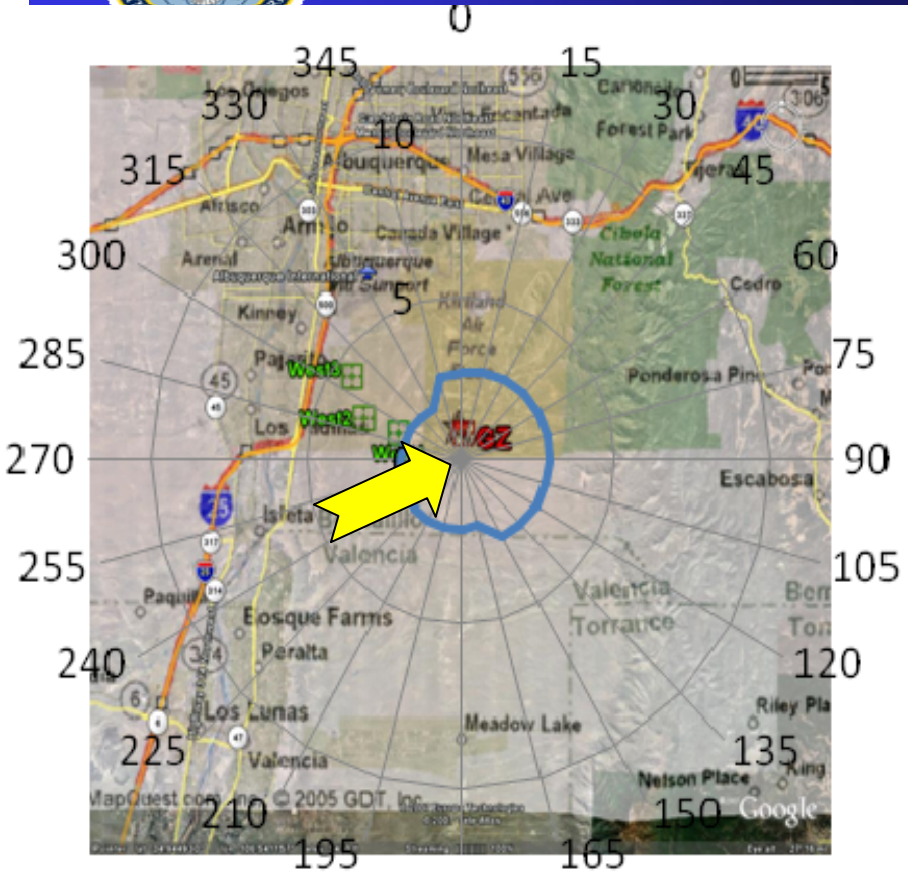


HR-g Test

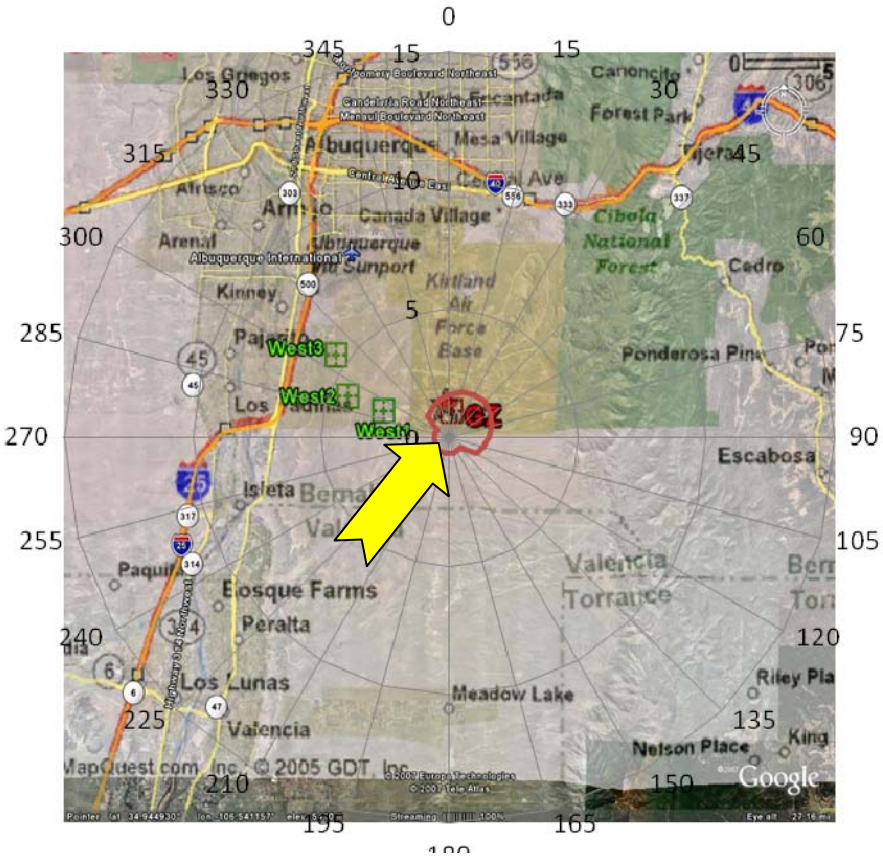


BLASTO predictions were 97% accurate within DTRA limit.

August 31,07
100 Pa Contours

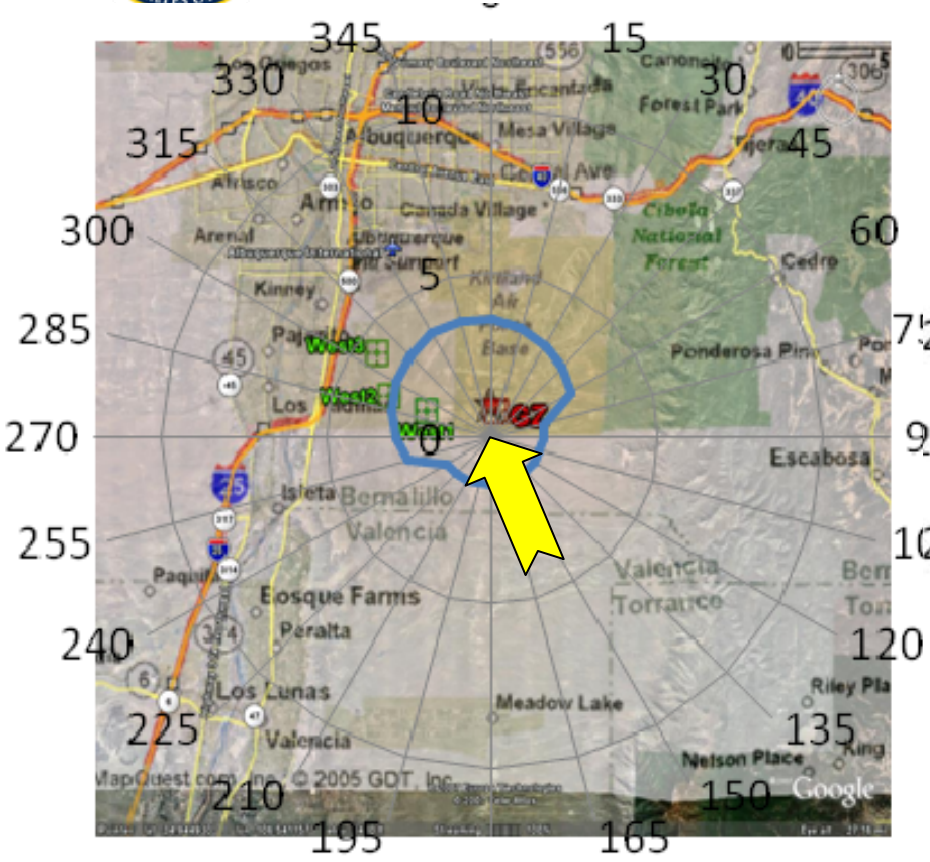


3 mph wind from 250, 79 F



9 mph wind from 220, 86 F

August 30, 2007
100 Pa Contours



9 mph wind from 160 , 74 F

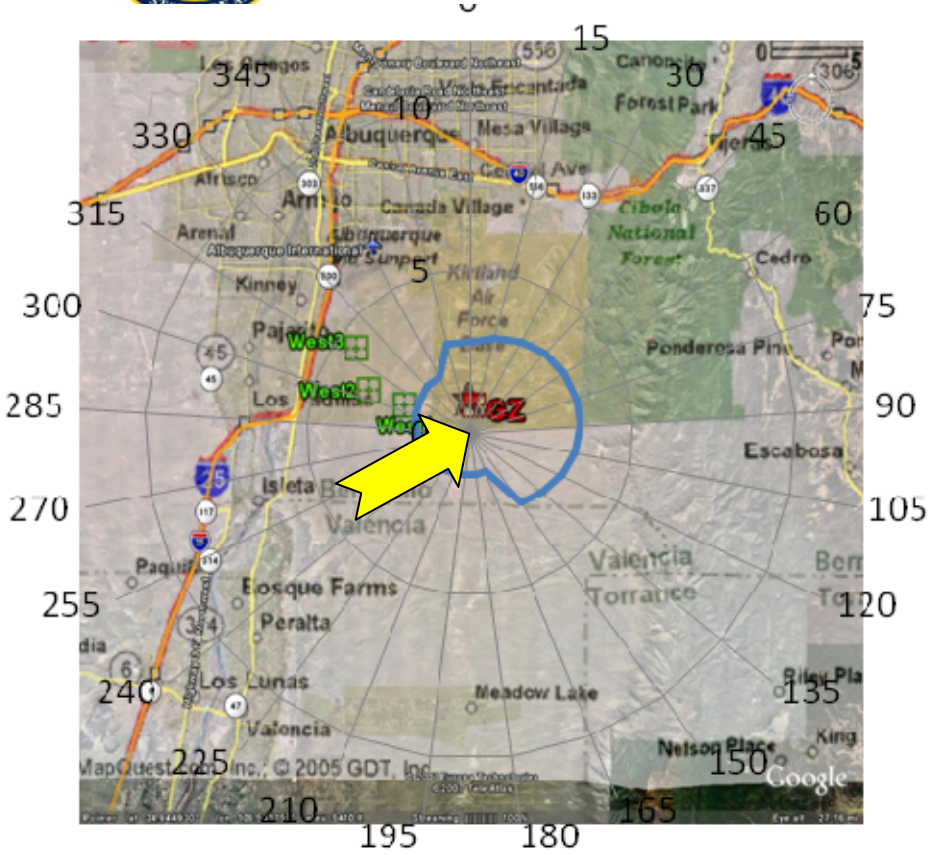
12 mph wind from 205, 81 F

August 28, 2007
100 Pa. Contours

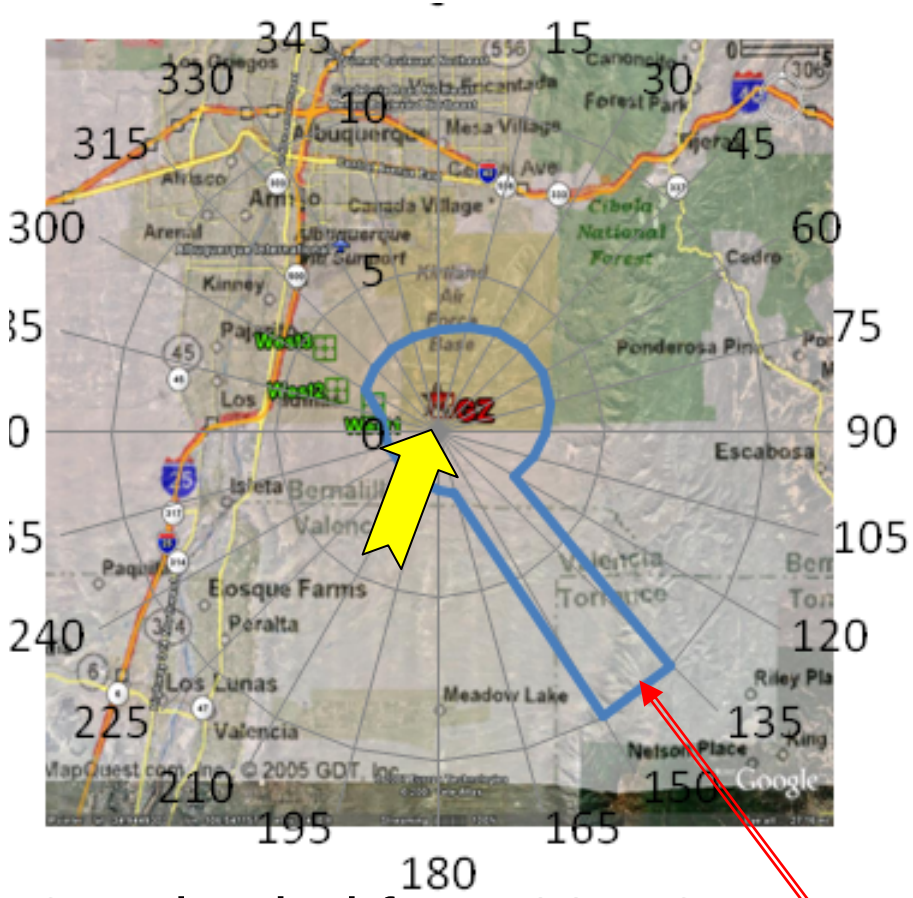
11 mph wind from 340, 89 F

5 mph wind from 310, 80 F

August 27 and May 22, 2007
100 Pa Contours



7 mph wind from 250, 89 F

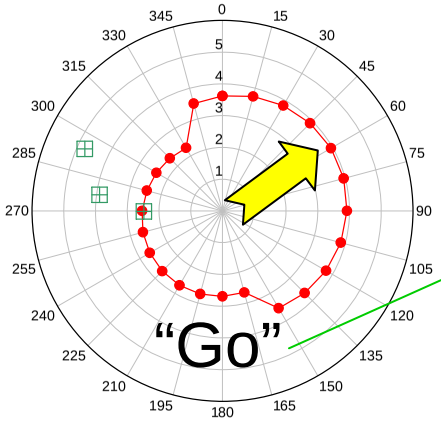


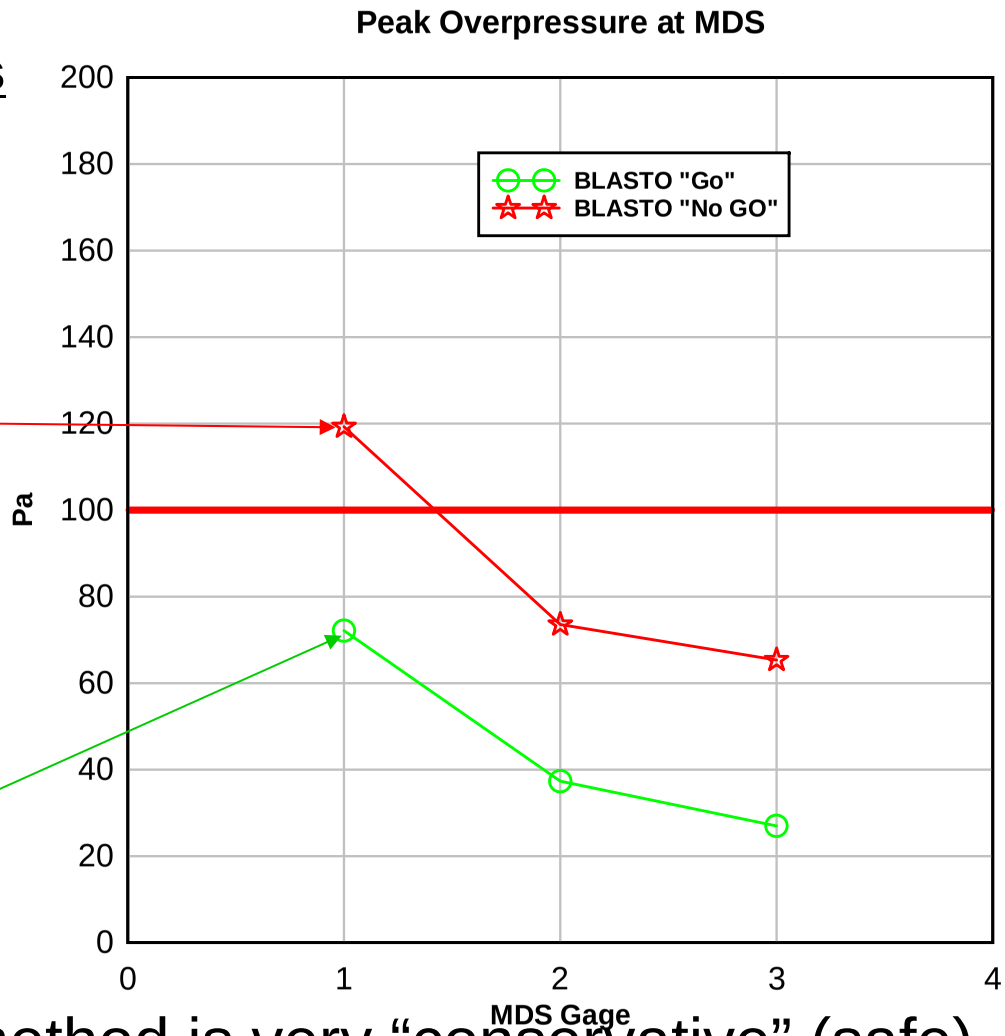
6 mph wind from 205, 67 F

No shoot condition if over populated areas

Examples of BLASTO Predictions

BLASTO 70 Pa. Contours





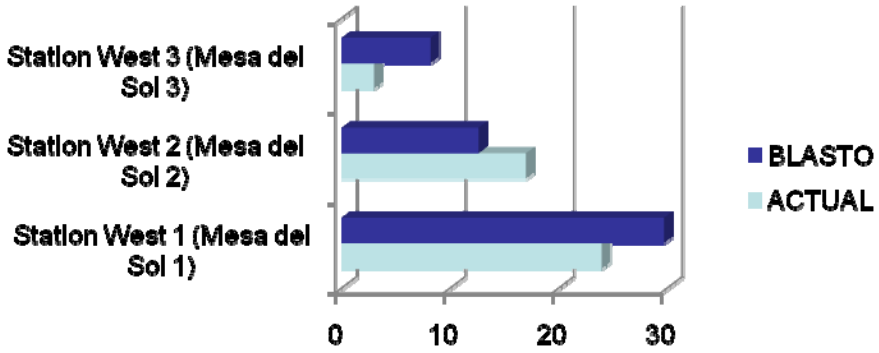
BLASTO predictive method is very “conservative” (safe).

Conclusions

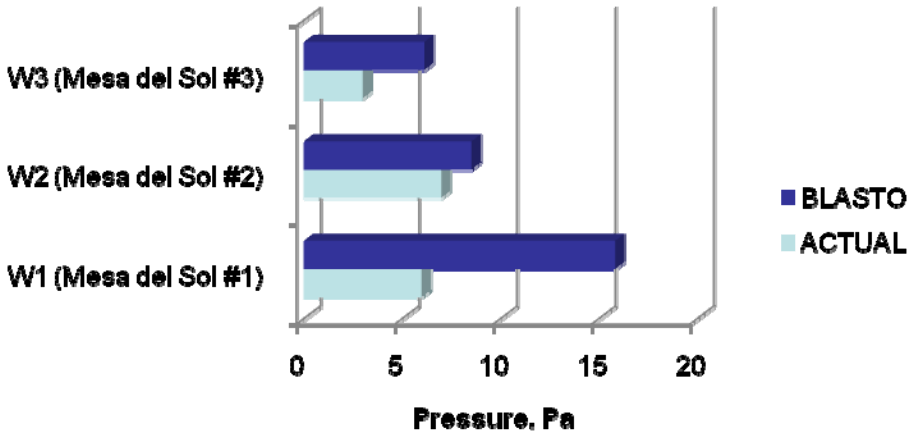
- Recent 1450 lb test data showed that measurements within MDS are below 100 Pa.
  - Data support variance of 100 Pa. within La Semilla is appropriate.
- Analysis of BLASTO Predictive Method of Test data for MDS gages showed that the method is very conservative and 97% accurate.
  - Complete data analysis is in progress

BACKUP SLIDES

2-Oct-07



8/31/07 #2



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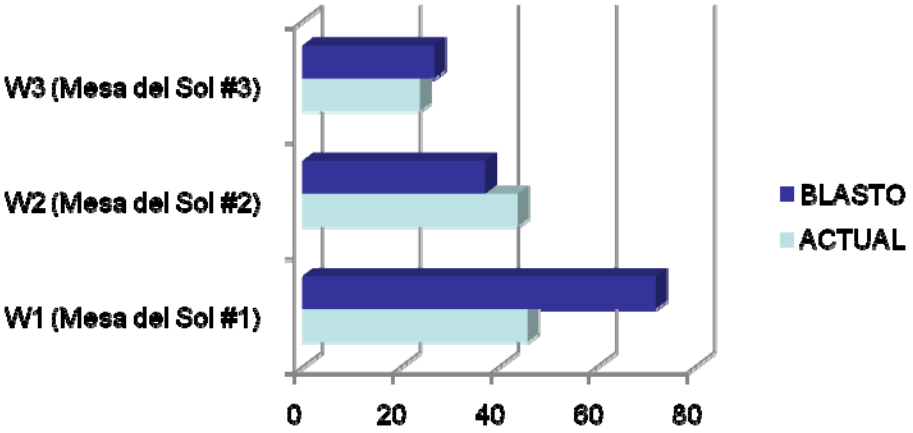
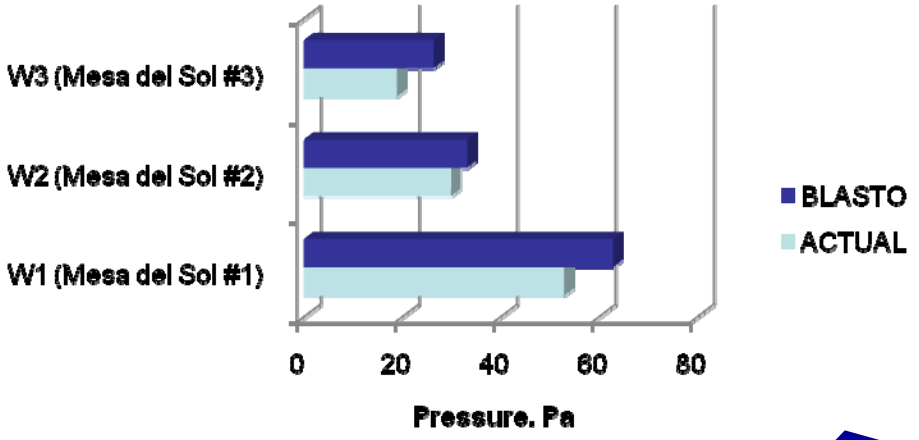
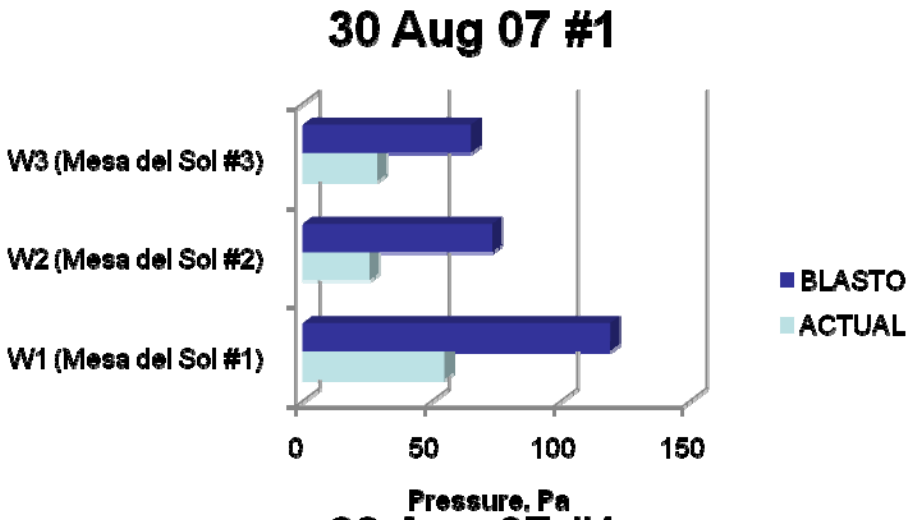
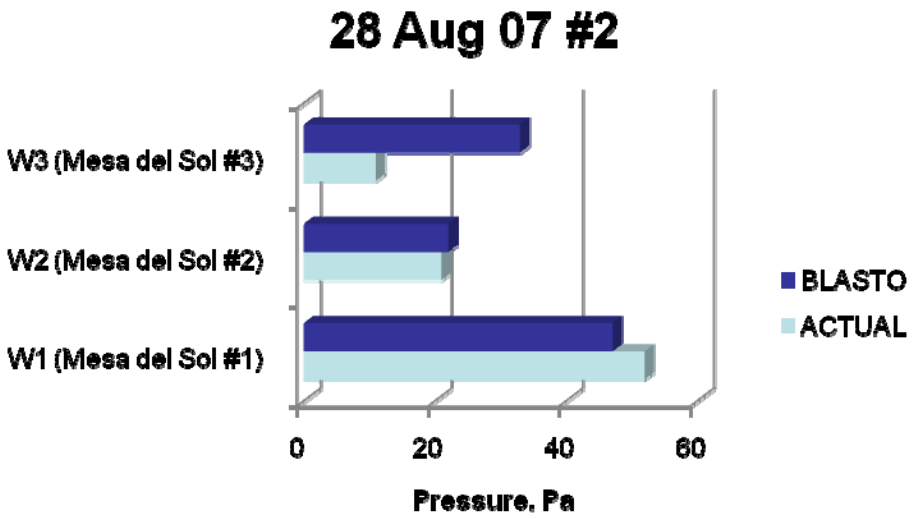


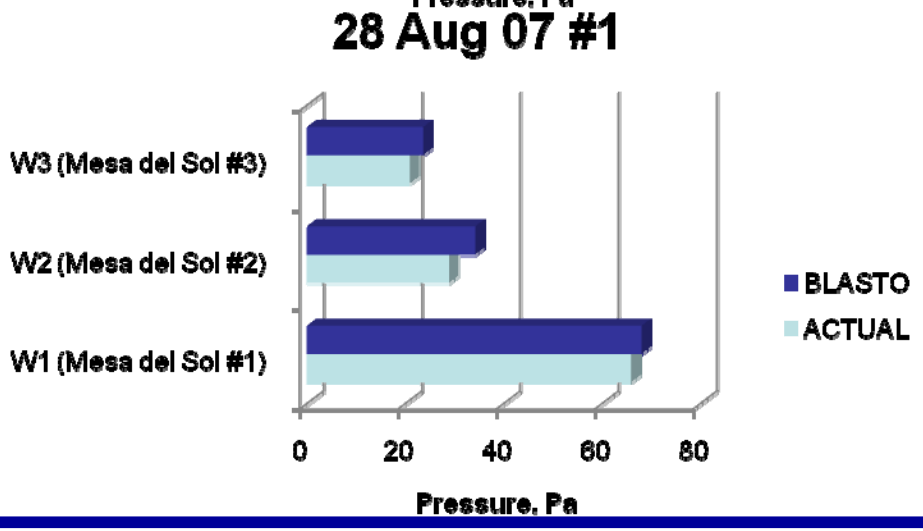
30 Aug 07 #2

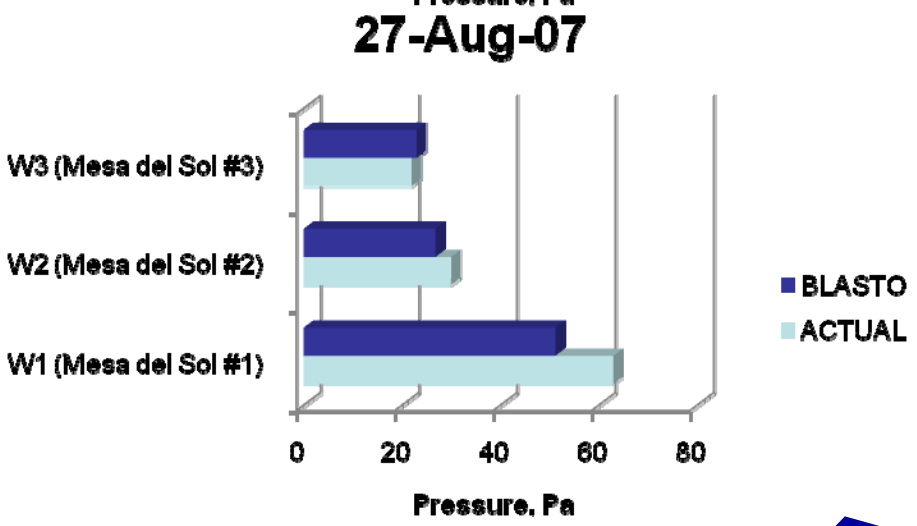
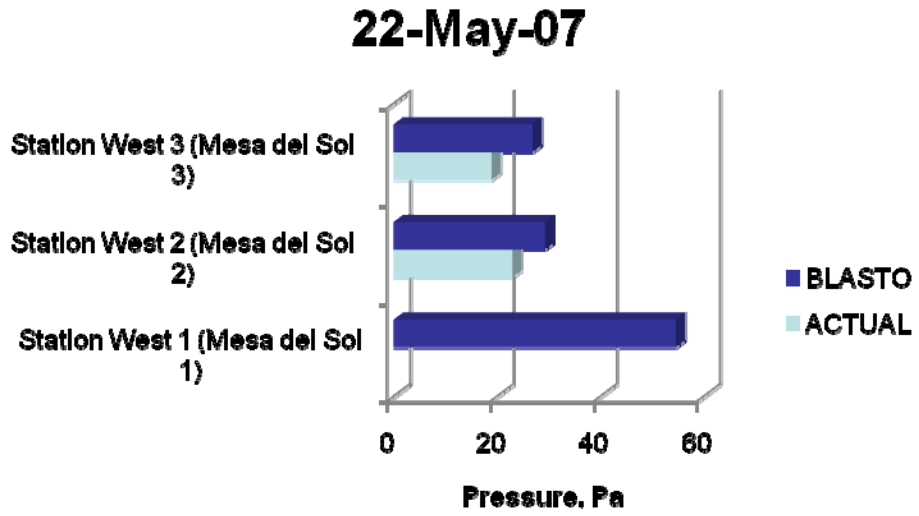


Backup Slides









Back-up Slides