

# SBE Comments: DA 06-1664, Trucker TV

## [TV call sign #3] Salt Lake Spreadsheet

### ENG Receiver AGC Observations at [TV call sign #3]

Observations >>>>>>

10/27/05

Trucker TV Transmit (demo) Location: North Salt Lake Truck-Stop (4250 ft. AMSL)

\* Power Stated Below was Verbal from Flying J and not independently measured or verified

Note 1: The Observations were made with the tools at hand, were casual in nature, and without extensive planning, but none-the-less clearly indicate an interference potential with as little as 100mw 20 miles from the Trucker TV transmitter.

Note 2; The Elevation of the North Salt Lake Truck-Stop is 4250 ft AMSL

| <b>Low Power *(100 mw)</b>           | <b>E-N-G Receive Site</b> | <b>Receive Site</b> | <b>Receive Site</b> | <b>AGC</b>    | <b>AGC</b>   | <b>Distance from North Salt Lake Truck-Stop TX Location</b> |
|--------------------------------------|---------------------------|---------------------|---------------------|---------------|--------------|---|
| <b>[TV call #3] ENG Rx Site Name</b> | <b>Elevation AMSL</b>     | <b>Latitude</b>     | <b>Longitude</b>    | <b>TX Off</b> | <b>TX On</b> | <b>(Km / Mi)</b>  |
| Pix Peak                             | 8700 ft.                  | 40.36.20 N          | 112.09.51 W         | 13            | 16           | 34 / 20   |
| US Satellite                         | 4363 ft.                  | 40.37.47 N          | 111.54.52 W         | 3             | 3            | 23 / 15   |
| Mt. Ogden                            | 9400 ft.                  | 41.12.00 N          | 111.52.55 W         | 4             | 4            | 40 / 25   |
| Wells Fargo Center (Studio)          | 4250 ft.                  | 40.45.48 N          | 111.53.26 W         | 3             | 3            | 08 / 05   |

| <b>High Power *(5 Watts)</b>         | <b>E-N-G Receive Site</b> | <b>Receive Site</b> | <b>Receive Site</b> | <b>AGC</b>    | <b>AGC</b>   | <b>Distance from North Salt Lake Truck-Stop TX Location</b> |
|--------------------------------------|---------------------------|---------------------|---------------------|---------------|--------------|---|
| <b>[TV call #3] ENG Rx Site Name</b> | <b>Elevation AMSL</b>     | <b>Latitude</b>     | <b>Longitude</b>    | <b>TX Off</b> | <b>TX On</b> | <b>(Km / Mi)</b>  |
| Pix Peak                             | 8700 ft.                  | 40.36.20 N          | 112.09.51 W         | 13            | 32           | 34 / 20   |
| US Satellite                         | 4363 ft.                  | 40.37.47 N          | 111.54.52 W         | 3             | 8            | 23 / 15   |
| Mt. Ogden                            | 9400 ft.                  | 41.12.00 N          | 111.52.55 W         | 4             | 10           | 40 / 25   |
| Wells Fargo Center (Studio)          | 4250 ft.                  | 40.45.48 N          | 111.53.26 W         | 3             | 5            | 08 / 05   |

| <b>Equipment</b>            | <b>Antenna</b> | <b>Antenna Gain</b> | <b>LNA Gain</b> | <b>Feed Line</b> | <b>Feed Length</b> | <b>2GHZ Receiver</b> |
|-----------------------------|----------------|---------------------|-----------------|------------------|--------------------|----------------------|
| Pix Peak                    | NSI CRS 4      | 25 db               | 33 db           | LDF 4            | 250'               | MRC CodeRunner       |
| US Satellite                | NSI Silhouette | 20 db               | NA              | LDF 4            | 150'               | MRC CodeRunner       |
| Mt. Ogden                   | NSI CRS 4      | 25 db               | 33 db           | LDF 4            | 200'               | MRC CodeRunner       |
| Wells Fargo Center (Studio) | Nurad Horns    | 13 db               | NA              | LDF 4            | 100'               | MRC CodeRunner       |

Quotes from Flying "J"s Principle Ian Williams at Frasier CA. site per J. Kalke:

"100mw covers our largest Plaza which is Frasier Park". "The parking area extends 900 ft. from the transmitter".

"This is why we selected Frasier Park for our first test site".

Note 3: AGC readings were taken via the E-N-G Receive Site Remote Control System located in the Studio Control Room.

Prepared by: Jerome J. Kalke - [Network] Observer Kipp Green - [TV call sign #3] Director of Technical Operations on October 27, 2005

