

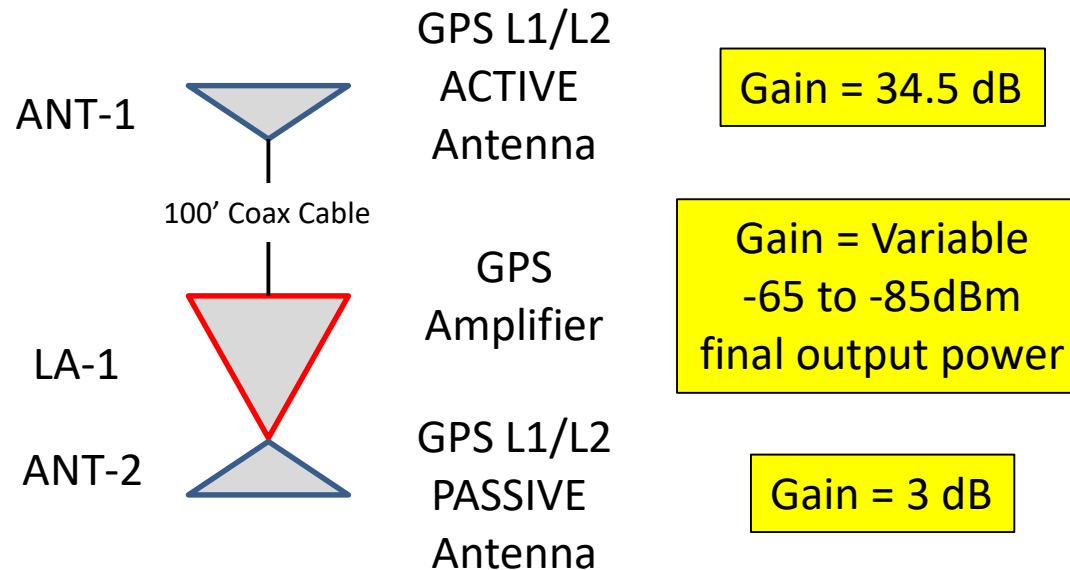
# Exhibit 3

## GPS Re-Radiator Calculations for SRCTec

# Data for Components Comprising GPS Re-radiator Design from GPSSource

| Designator                  | Description   | Part Number          | Parameter | Value  | Units |
|-----------------------------|---|----------------------|-----------|--------|-------|
| <b>SRCTec Configuration</b> |   |                      |           |        |       |
| ANT - 1                     | ANTENNA 2.6" GPS L1/L2 ACTIVE, Pole Mount, NF               | L1L2-2GA-PM-NF       | Gain L1   | 34.5   | dB    |
|                             |   |                      | Gain L2   | 34.5   | dB    |
| LA-1                        | GPS Amplifier, Variable Gain, -85dBm to -65dBm final output | GLI-METRO Option F12 | Gain L1   | varies | dB    |
|                             |   |                      | Gain L2   | varies | dB    |
| ANT - 2                     | ANTENNA 2.6" GPS L1/L2 PASSIVE, NF                          | L1L2-2GP-NF          | Gain L1   | 3      | dB    |
|                             |   |                      | Gain L2   | 3      | dB    |

# Block Diagram of GPS Re-Radiating System for SRCtec



| Designator                  | Description   | Part Number          | Parameter | Value  | Units |
|-----------------------------|---|----------------------|-----------|--------|-------|
| <b>SRCTec Configuration</b> |   |                      |           |        |       |
| ANT - 1                     | ANTENNA 2.6" GPS L1/L2 ACTIVE, Pole Mount, NF               | L1L2-2GA-PM-NF       | Gain L1   | 34.5   | dB    |
|                             |   |                      | Gain L2   | 34.5   | dB    |
| LA-1                        | GPS Amplifier, Variable Gain, -85dBm to -65dBm final output | GLI-METRO Option F12 | Gain L1   | varies | dB    |
|                             |   |                      | Gain L2   | varies | dB    |
| ANT - 2                     | ANTENNA 2.6" GPS L1/L2 PASSIVE, NF                          | L1L2-2GP-NF          | Gain L1   | 3      | dB    |
|                             |   |                      | Gain L2   | 3      | dB    |

# Link Budget Calculations for SRCtec

## Indoor Link Budget

**Location: SRC SYR Building 3 Facility Room A**

|   |         |            |   |         |            |
|---|---------|------------|---|---------|------------|
| Frequency L1  | 1575.42 | MHz        | Frequency L2  | 1227.6  | MHz        |
| Re-radiated ERP Indoors (set at amplifier)          | -73.00  | dBm        | Re-radiated ERP Indoors (set at amplifier)          | -75.00  | dBm        |
|   | 50.12   | pW         |   | 31.62   | pW         |
| Pathloss - Distance to closest exterior wall (roof) | 15      | ft         | Pathloss - Distance to closest exterior wall (roof) | 15      | ft         |
| Pathloss -Beyond exterior wall                      | 100     | ft         | Pathloss -Beyond exterior wall                      | 100     | ft         |
|   | 35.052  | meters     |   | 35.052  | meters     |
| Pathloss at 100 ft                                  | 67.29   | dB         | Pathloss at 100 ft                                  | 65.13   | dB         |
| RF Power Level at 100 ft from antenna               | -140.29 | dBm        | RF Power Level at 100 ft from antenna               | -140.13 | dBm        |
| Required RF Power Level at 100 ft                   | -140    | dBm/24 MHz | Required RF Power Level at 100 ft                   | -140    | dBm/24 MHz |