This linearized model file was generated by FAST (v7.02.00d-bjj, 20-Feb-2013) with OC3 Hywind Modifications on 22-Oct-2019 at 10:20:52.

The aerodynamic calculations were made by AeroDyn (v13.00.02a-bjj, 20-Feb-2013).

NREL 5.0 MW Baseline Wind Turbine for Use in Offshore Analysis.

Some Useful Information:

Type of steady state solution found Trimmed collective blade pitch (TrimCase = 3)

Azimuth-average rotor speed, RotSpeed (rad/s) 1.26711E+00

Period of steady state solution (sec) 4.95868E+00

Iterations needed to find steady state solution 187

Displacement 2-norm of steady state solution (rad) 9.30134E-05

Velocity 2-norm of steady state solution (rad/s) 2.74347E-04

Number of equally-speced azimuth steps, NAzimStep 36

Order of linearized model, MdlOrder 1

Number of active (enabled) DOFs 12 (24 states)

Number of control inputs, NInputs 1

Number of input wind disturbances, NDisturbs 1

Number of output measurements 4

Order of States in Linearized State Matrices:

Row/column 1 = Platform horizontal surge translation DOF (internal DOF index = DOF\_Sg)

Row/column 2 = Platform roll tilt rotation DOF (internal DOF index = DOF\_R)

Row/column 3 = Platform pitch tilt rotation DOF (internal DOF index = DOF\_P)

Row/column 4 = Platform yaw rotation DOF (internal DOF index = DOF\_Y)

Row/column 5 = 1st tower fore-aft bending mode DOF (internal DOF index = DOF\_TFA1)

Row/column 6 = 1st tower side-to-side bending mode DOF (internal DOF index = DOF\_TSS1)

Row/column 7 = Nacelle yaw DOF (internal DOF index = DOF\_Yaw)

Row/column 8 = Variable speed generator DOF (internal DOF index = DOF\_GeAz)

Row/column 9 = Drivetrain rotational-flexibility DOF (internal DOF index = DOF\_DrTr)

Row/column 10 = 1st edgewise bending-mode DOF of blade 1 (internal DOF index = DOF\_BE(1,1))

Row/column 11 = 1st edgewise bending-mode DOF of blade 2 (internal DOF index = DOF\_BE(2,1))

Row/column 12 = 1st edgewise bending-mode DOF of blade 3 (internal DOF index = DOF\_BE(3,1))

Row/column 13 to 24 = First derivatives of row/column 1 to 12.

Order of Control Inputs in Linearized State Matrices:

Column 1 = rotor collective blade pitch (rad) 3.34816E-01 op

Order of Input Wind Disturbances in Linearized State Matrices:

Column 1 = horizontal hub-height wind speed (m/s) : See selected wind file for op

Order of Output Measurements in Linearized State Matrices:

Row 1 = GenSpeed (rpm)

Row 2 = TwrBsMxt (kN穖)

Row 3 = TwrBsMyt (kN穖)

Row 4 = RotSpeed (rpm)

Linearized State Matrices:

--------- Azimuth = 0.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-4.121E-04 | 2.773E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

4.354E-06 | -2.487E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.745E-06 | 1.587E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-8.297E-06 | -5.375E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.585E-04 | 7.169E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.573E-04 | -1.088E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

3.495E-06 | -8.606E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 4.712E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.060E-07 | 3.688E-08 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-5.258E-01 | 2.823E-02 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.675E-01 | -3.236E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.587E-01 | 3.893E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-6.123E-05 | -4.121E-04 | 1.784E-02 7.597E-02 -2.148E+02 -1.723E-01 2.415E+00 -4.726E-02 7.940E-01 -3.882E-02 -6.172E-01 -7.194E-02 5.474E-03 3.897E-02 -3.909E-02 9.152E-01 1.396E+00 7.338E-01 4.147E-02 1.227E-02 7.362E-01 9.866E-03 5.725E-03 2.758E-03 -1.612E-03 -1.132E-03 | 4.250E-02 | -1.319E-03

1.577E-05 | 4.354E-06 | -4.697E-05 -1.105E+00 -3.807E-04 2.352E-03 3.803E-05 1.194E-02 -6.636E-02 1.376E-05 -7.233E-02 2.392E-05 -1.172E-05 -1.172E-05 2.682E-08 -5.969E-03 1.754E-04 8.959E-05 5.038E-06 2.983E-05 -4.534E-05 -1.040E-06 -5.193E-04 3.340E-07 9.095E-07 -1.241E-06 | -3.460E-06 | 4.905E-08

1.684E-05 | -2.745E-06 | 9.072E-04 2.958E-03 -6.747E+00 -5.032E-03 7.196E-02 -1.388E-03 2.337E-02 -1.129E-03 -1.740E-02 -2.088E-03 1.645E-04 1.139E-03 -9.711E-04 2.663E-02 3.425E-02 2.135E-02 1.211E-03 3.567E-04 2.142E-02 2.802E-04 1.636E-04 8.024E-05 -4.690E-05 -3.292E-05 | 1.212E-03 | -3.779E-05

-8.444E-06 | -8.297E-06 | 6.613E-06 1.118E-01 -6.971E-04 -4.020E-01 3.918E-06 -7.068E-05 2.498E+01 -1.410E-07 3.204E-04 -2.275E-07 6.230E-08 1.221E-07 -4.722E-08 -3.802E-05 -3.948E-06 -3.597E-02 3.462E-08 -2.059E-07 5.302E-02 2.628E-08 2.323E-06 4.359E-09 -7.541E-09 2.662E-09 | 1.773E-07 | -3.329E-09

-2.310E-03 | 2.585E-04 | -9.732E-02 4.911E-02 8.174E+02 1.108E+00 -1.354E+01 2.478E-01 -2.046E+01 2.483E-01 5.745E+01 9.528E-01 4.848E-01 2.142E-01 6.549E-02 -6.626E+00 -1.323E+01 -4.629E+00 -3.213E-01 -1.014E-01 -4.678E+00 -7.533E-01 -3.436E-01 -1.878E-02 1.173E-02 8.254E-03 | -2.713E+00 | 6.626E-02

7.034E-04 | -1.573E-04 | 5.399E-03 1.074E+02 -1.069E+01 1.196E-01 1.719E-01 -7.845E+00 1.608E+02 -1.903E-01 7.122E+01 -3.305E-01 1.386E-01 1.802E-01 -1.039E-03 -1.236E+00 -2.374E+00 -7.183E-01 -6.413E-02 -4.032E-02 -3.782E-01 1.979E-02 5.313E-01 -3.773E-03 -1.186E-02 1.558E-02 | 7.527E-02 | -7.121E-04

7.524E-05 | 3.495E-06 | -2.246E-05 -3.233E-01 -3.173E-01 5.020E-01 -1.545E-02 5.281E-02 -4.674E+02 -1.984E-02 -4.119E+00 -3.993E-02 1.446E-01 -1.028E-01 1.263E-03 -7.382E-01 1.805E+00 -2.822E+00 4.660E-02 -1.446E-02 -3.851E+00 -3.109E-02 -6.046E-02 -5.043E-04 -4.966E-03 5.593E-03 | -1.744E-01 | -1.426E-03

6.294E-06 | 1.267E+00 | -1.366E-06 -2.411E-02 2.881E-03 1.451E-05 -7.562E-05 2.499E-03 -4.496E-01 4.269E-05 1.726E+02 7.382E-05 7.766E-05 -1.493E-04 1.366E-06 -1.972E-04 2.391E-03 -2.332E-03 6.238E-05 -5.461E-07 -3.285E-03 -3.415E-05 1.236E+00 4.794E-07 -9.587E-07 2.397E-07 | 4.269E-05 | -1.192E-06

1.030E-06 | 2.060E-07 | -3.859E-05 -2.314E+00 -6.968E-01 1.998E-03 1.367E-01 2.380E-01 -4.266E+01 1.271E-03 -2.411E+02 -4.016E-01 -3.953E-01 -4.136E-01 -1.160E-01 -1.622E+00 -9.922E+00 -4.819E-02 -1.124E-01 -5.134E-02 -1.397E-01 -1.636E+00 -3.363E+00 -4.823E-03 -5.295E-03 -5.228E-03 | -7.114E+00 | 1.165E-01

5.133E-03 | -5.258E-01 | 8.489E-02 1.022E+01 -7.804E+02 9.893E+00 2.968E+01 -1.412E+01 -5.160E+03 -2.013E+01 -5.103E+03 -8.132E+01 -2.985E+01 -3.210E+01 -1.051E+01 -2.052E+02 -9.681E+02 -1.303E+02 -1.214E+01 -5.613E+00 -1.413E+02 -1.457E+02 -1.821E+02 -6.799E-01 -5.047E-01 -3.104E-01 | -6.511E+02 | 1.040E+01

5.578E-01 | 2.675E-01 | -9.188E-03 -4.648E+00 6.431E+01 -8.566E+00 1.475E+01 5.753E+00 1.962E+04 1.065E+01 -4.970E+03 -2.967E+01 -8.550E+01 -2.645E+01 -1.062E+01 -9.130E+01 -8.565E+02 1.223E+02 -8.891E+00 -3.791E+00 1.639E+02 -1.470E+02 -1.827E+02 -3.398E-01 -4.998E-01 -6.698E-01 | -6.451E+02 | 1.065E+01

-5.681E-01 | 2.587E-01 | -4.638E-02 -4.907E+00 3.843E+02 -2.566E+00 6.320E+00 7.717E+00 -1.425E+04 8.583E+00 -5.217E+03 -3.213E+01 -2.636E+01 -8.161E+01 -1.041E+01 -1.299E+02 -9.212E+02 5.451E+01 -1.080E+01 -4.374E+00 2.420E+01 -1.475E+02 -1.849E+02 -3.914E-01 -5.462E-01 -5.472E-01 | -6.630E+02 | 1.049E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.608E+02 | | 7.696E+00 2.304E+05 -1.249E+03 -9.870E+02 -4.603E+01 2.566E+05 -1.485E+06 3.065E+02 -1.554E+06 5.335E+02 -2.539E+02 -2.633E+02 -1.654E+00 4.084E+03 3.527E+03 1.844E+03 9.631E+01 6.376E+02 -1.303E+03 -2.426E+01 -1.116E+04 6.411E+00 2.000E+01 -2.635E+01 | -8.211E+01 | 1.339E+00

2.754E+03 | | -2.324E+02 1.290E+03 2.200E+06 -8.597E+03 1.606E+05 -1.324E+03 2.961E+04 -1.998E+03 -2.824E+04 -3.597E+03 3.923E+02 2.107E+03 4.141E+02 4.701E+04 6.754E+04 3.784E+04 2.228E+03 6.300E+02 3.793E+04 3.592E+02 1.713E+02 1.419E+02 -8.267E+01 -5.825E+01 | 1.663E+03 | -5.545E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 10.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-3.939E-04 | 2.772E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

6.419E-06 | -2.412E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

3.782E-07 | 1.585E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-8.431E-06 | -5.376E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.965E-04 | 7.175E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-5.377E-05 | -1.104E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

4.006E-06 | -8.549E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 4.887E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-3.336E-07 | 6.444E-08 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-5.178E-01 | -4.380E-02 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

3.407E-01 | -2.816E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.769E-01 | 4.193E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

2.952E-04 | -3.939E-04 | 1.784E-02 7.588E-02 -2.148E+02 -1.742E-01 2.415E+00 -4.725E-02 4.781E-01 -3.862E-02 -6.201E-01 -7.438E-02 1.657E-02 3.029E-02 -3.909E-02 9.259E-01 1.401E+00 7.366E-01 4.146E-02 1.229E-02 7.384E-01 9.640E-03 5.476E-03 2.641E-03 -1.963E-03 -6.744E-04 | 4.164E-02 | -1.232E-03

1.400E-05 | 6.419E-06 | -4.698E-05 -1.105E+00 -3.716E-04 2.346E-03 3.802E-05 1.194E-02 -6.639E-02 1.380E-05 -7.233E-02 2.357E-05 -1.509E-05 -7.995E-06 3.149E-08 -5.967E-03 1.761E-04 9.179E-05 5.048E-06 2.984E-05 -4.531E-05 -1.036E-06 -5.193E-04 5.453E-07 7.375E-07 -1.281E-06 | -3.142E-06 | 5.077E-08

2.755E-05 | 3.782E-07 | 9.072E-04 2.947E-03 -6.747E+00 -5.087E-03 7.197E-02 -1.387E-03 1.417E-02 -1.124E-03 -1.749E-02 -2.159E-03 4.873E-04 8.861E-04 -9.712E-04 2.694E-02 3.439E-02 2.143E-02 1.211E-03 3.573E-04 2.149E-02 2.736E-04 1.564E-04 7.683E-05 -5.711E-05 -1.962E-05 | 1.187E-03 | -3.526E-05

6.529E-06 | -8.431E-06 | 7.209E-06 1.118E-01 -7.002E-04 -4.020E-01 3.885E-06 -7.066E-05 2.498E+01 -1.060E-07 3.204E-04 -2.234E-07 9.056E-08 8.802E-08 -4.616E-08 -3.799E-05 -3.834E-06 -3.597E-02 3.202E-08 -2.062E-07 5.302E-02 1.550E-08 2.308E-06 3.462E-09 -6.901E-09 3.489E-09 | -1.313E-07 | -2.574E-09

-4.181E-03 | -1.965E-04 | -9.732E-02 4.904E-02 8.175E+02 1.119E+00 -1.354E+01 2.477E-01 -1.841E+01 2.472E-01 5.747E+01 9.741E-01 4.104E-01 2.674E-01 6.559E-02 -6.697E+00 -1.326E+01 -4.649E+00 -3.210E-01 -1.014E-01 -4.693E+00 -7.506E-01 -3.407E-01 -1.796E-02 1.417E-02 5.071E-03 | -2.702E+00 | 6.549E-02

7.735E-04 | -5.377E-05 | 5.400E-03 1.074E+02 -1.069E+01 1.239E-01 1.719E-01 -7.845E+00 1.611E+02 -1.907E-01 7.122E+01 -3.296E-01 1.874E-01 1.306E-01 -1.095E-03 -1.261E+00 -2.382E+00 -7.209E-01 -6.423E-02 -4.053E-02 -3.793E-01 1.975E-02 5.313E-01 -6.484E-03 -9.726E-03 1.617E-02 | 7.323E-02 | -7.209E-04

-7.926E-05 | 4.006E-06 | -2.035E-05 -3.235E-01 -3.361E-01 5.022E-01 -1.481E-02 5.291E-02 -4.671E+02 -1.980E-02 -4.120E+00 -1.479E-02 1.361E-01 -1.195E-01 1.222E-03 -7.441E-01 1.793E+00 -2.815E+00 4.632E-02 -1.450E-02 -3.843E+00 -3.144E-02 -6.081E-02 -1.569E-03 -4.280E-03 5.973E-03 | -1.768E-01 | -1.394E-03

1.025E-05 | 1.267E+00 | -1.195E-06 -2.412E-02 2.857E-03 -2.561E-06 -7.427E-05 2.498E-03 -4.495E-01 6.830E-05 1.726E+02 8.796E-05 6.352E-05 -1.496E-04 1.281E-06 -1.930E-04 2.395E-03 -2.326E-03 6.283E-05 -2.731E-07 -3.280E-03 -3.586E-05 1.236E+00 1.198E-06 -9.587E-07 2.397E-07 | -2.561E-05 | -2.980E-07

-3.085E-06 | -3.336E-07 | -3.851E-05 -2.314E+00 -6.984E-01 1.672E-03 1.368E-01 2.380E-01 -4.267E+01 1.282E-03 -2.411E+02 -3.998E-01 -3.966E-01 -4.141E-01 -1.160E-01 -1.624E+00 -9.920E+00 -4.548E-02 -1.123E-01 -5.113E-02 -1.370E-01 -1.634E+00 -3.361E+00 -4.805E-03 -5.325E-03 -5.167E-03 | -7.108E+00 | 1.162E-01

1.110E-01 | -5.178E-01 | 8.753E-02 1.009E+01 -8.026E+02 9.324E+00 3.035E+01 -1.410E+01 -1.686E+03 -1.963E+01 -5.078E+03 -8.099E+01 -3.079E+01 -3.162E+01 -1.053E+01 -2.016E+02 -9.621E+02 -1.209E+02 -1.195E+01 -5.528E+00 -1.246E+02 -1.456E+02 -1.818E+02 -6.846E-01 -4.636E-01 -3.442E-01 | -6.488E+02 | 1.039E+01

5.040E-01 | 3.407E-01 | -2.218E-02 -6.071E+00 1.794E+02 -9.930E+00 1.242E+01 7.824E+00 1.840E+04 1.335E+01 -4.983E+03 -3.060E+01 -8.472E+01 -2.599E+01 -1.060E+01 -8.335E+01 -8.512E+02 1.402E+02 -8.743E+00 -3.649E+00 1.792E+02 -1.471E+02 -1.829E+02 -2.932E-01 -5.410E-01 -6.702E-01 | -6.459E+02 | 1.063E+01

-6.171E-01 | 1.769E-01 | -3.600E-02 -3.358E+00 2.913E+02 -7.244E-01 7.992E+00 5.629E+00 -1.650E+04 5.399E+00 -5.228E+03 -3.166E+01 -2.591E+01 -8.271E+01 -1.040E+01 -1.417E+02 -9.317E+02 2.784E+01 -1.111E+01 -4.544E+00 -7.265E+00 -1.473E+02 -1.848E+02 -4.291E-01 -5.545E-01 -4.954E-01 | -6.630E+02 | 1.044E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.435E+02 | | 7.698E+00 2.304E+05 -1.250E+03 -9.920E+02 -4.643E+01 2.566E+05 -1.485E+06 3.071E+02 -1.554E+06 5.264E+02 -3.295E+02 -1.808E+02 -1.547E+00 4.126E+03 3.542E+03 1.845E+03 9.652E+01 6.380E+02 -1.302E+03 -2.412E+01 -1.116E+04 1.097E+01 1.640E+01 -2.735E+01 | -7.803E+01 | 1.376E+00

2.755E+03 | | -2.324E+02 1.290E+03 2.200E+06 -8.681E+03 1.606E+05 -1.324E+03 1.335E+04 -1.988E+03 -2.839E+04 -3.722E+03 9.629E+02 1.660E+03 4.141E+02 4.756E+04 6.777E+04 3.798E+04 2.227E+03 6.312E+02 3.804E+04 3.478E+02 1.587E+02 1.359E+02 -1.007E+02 -3.475E+01 | 1.619E+03 | -5.102E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 20.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-3.846E-04 | 2.771E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

8.290E-06 | -2.311E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

3.219E-06 | 1.587E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-6.781E-06 | -5.377E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-6.165E-04 | 7.117E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

8.946E-05 | -1.102E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.437E-06 | -8.509E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 5.061E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.321E-06 | 8.571E-08 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.937E-01 | -1.136E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

4.041E-01 | -2.302E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

8.965E-02 | 4.377E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-1.212E-04 | -3.846E-04 | 1.784E-02 7.583E-02 -2.148E+02 -1.736E-01 2.416E+00 -4.722E-02 2.684E-01 -3.847E-02 -6.228E-01 -7.483E-02 2.684E-02 2.044E-02 -3.910E-02 9.346E-01 1.403E+00 7.403E-01 4.137E-02 1.227E-02 7.417E-01 9.537E-03 5.353E-03 2.438E-03 -2.255E-03 -1.968E-04 | 4.019E-02 | -1.148E-03

1.298E-05 | 8.290E-06 | -4.699E-05 -1.105E+00 -3.659E-04 2.341E-03 3.803E-05 1.194E-02 -6.642E-02 1.379E-05 -7.233E-02 2.249E-05 -1.799E-05 -4.010E-06 3.178E-08 -5.965E-03 1.777E-04 9.395E-05 5.046E-06 2.984E-05 -4.509E-05 -1.024E-06 -5.193E-04 7.396E-07 5.431E-07 -1.283E-06 | -3.216E-06 | 5.557E-08

1.497E-05 | 3.219E-06 | 9.073E-04 2.939E-03 -6.748E+00 -5.064E-03 7.197E-02 -1.387E-03 8.047E-03 -1.120E-03 -1.757E-02 -2.172E-03 7.861E-04 5.994E-04 -9.713E-04 2.719E-02 3.445E-02 2.154E-02 1.208E-03 3.567E-04 2.158E-02 2.706E-04 1.528E-04 7.094E-05 -6.559E-05 -5.721E-06 | 1.145E-03 | -3.283E-05

1.687E-05 | -6.781E-06 | 7.512E-06 1.118E-01 -6.866E-04 -4.020E-01 3.792E-06 -7.065E-05 2.498E+01 -1.160E-07 3.196E-04 -2.268E-07 1.249E-07 6.206E-08 -4.399E-08 -3.811E-05 -3.648E-06 -3.597E-02 3.093E-08 -2.068E-07 5.302E-02 1.673E-08 2.308E-06 7.388E-10 -6.941E-09 4.945E-09 | -5.550E-08 | -1.910E-09

-2.033E-03 | -6.165E-04 | -9.733E-02 4.903E-02 8.175E+02 1.121E+00 -1.354E+01 2.476E-01 -1.705E+01 2.463E-01 5.749E+01 9.824E-01 3.406E-01 3.290E-01 6.570E-02 -6.754E+00 -1.327E+01 -4.675E+00 -3.204E-01 -1.012E-01 -4.715E+00 -7.489E-01 -3.389E-01 -1.654E-02 1.620E-02 1.742E-03 | -2.688E+00 | 6.476E-02

1.308E-03 | 8.946E-05 | 5.400E-03 1.074E+02 -1.069E+01 1.289E-01 1.717E-01 -7.844E+00 1.613E+02 -1.904E-01 7.122E+01 -3.189E-01 2.303E-01 7.685E-02 -1.098E-03 -1.281E+00 -2.385E+00 -7.246E-01 -6.419E-02 -4.049E-02 -3.818E-01 1.962E-02 5.311E-01 -8.992E-03 -7.304E-03 1.628E-02 | 7.246E-02 | -7.510E-04

5.981E-05 | 2.437E-06 | -1.885E-05 -3.236E-01 -3.473E-01 5.047E-01 -1.436E-02 5.298E-02 -4.665E+02 -1.993E-02 -4.117E+00 1.080E-02 1.234E-01 -1.324E-01 1.200E-03 -7.611E-01 1.775E+00 -2.813E+00 4.608E-02 -1.459E-02 -3.839E+00 -3.198E-02 -6.133E-02 -2.558E-03 -3.470E-03 6.171E-03 | -1.735E-01 | -1.483E-03

1.594E-05 | 1.267E+00 | -1.451E-06 -2.411E-02 2.856E-03 4.269E-06 -6.418E-05 2.504E-03 -4.490E-01 2.220E-05 1.726E+02 1.093E-04 4.889E-05 -1.436E-04 1.366E-06 -2.023E-04 2.383E-03 -2.321E-03 6.238E-05 -2.731E-07 -3.273E-03 -3.244E-05 1.236E+00 7.190E-07 -7.190E-07 -4.794E-07 | -1.451E-04 | -2.682E-06

7.323E-06 | 1.321E-06 | -3.808E-05 -2.314E+00 -6.996E-01 1.874E-03 1.369E-01 2.380E-01 -4.263E+01 1.417E-03 -2.411E+02 -3.982E-01 -3.981E-01 -4.142E-01 -1.159E-01 -1.625E+00 -9.909E+00 -4.458E-02 -1.122E-01 -5.090E-02 -1.360E-01 -1.634E+00 -3.361E+00 -4.784E-03 -5.352E-03 -5.107E-03 | -7.104E+00 | 1.158E-01

2.367E-01 | -4.937E-01 | 8.776E-02 9.657E+00 -8.035E+02 8.488E+00 3.060E+01 -1.366E+01 1.837E+03 -1.853E+01 -5.054E+03 -8.096E+01 -3.162E+01 -3.089E+01 -1.055E+01 -1.962E+02 -9.535E+02 -1.079E+02 -1.171E+01 -5.412E+00 -1.041E+02 -1.455E+02 -1.816E+02 -6.717E-01 -4.316E-01 -3.857E-01 | -6.468E+02 | 1.037E+01

4.131E-01 | 4.041E-01 | -3.415E-02 -7.304E+00 2.853E+02 -1.103E+01 1.024E+01 9.651E+00 1.660E+04 1.565E+01 -5.000E+03 -3.141E+01 -8.369E+01 -2.590E+01 -1.058E+01 -7.694E+01 -8.470E+02 1.546E+02 -8.660E+00 -3.532E+00 1.897E+02 -1.473E+02 -1.832E+02 -2.571E-01 -5.887E-01 -6.535E-01 | -6.473E+02 | 1.061E+01

-6.476E-01 | 8.965E-02 | -2.426E-02 -1.700E+00 1.863E+02 1.204E+00 9.936E+00 3.360E+00 -1.823E+04 2.042E+00 -5.236E+03 -3.096E+01 -2.582E+01 -8.374E+01 -1.039E+01 -1.537E+02 -9.409E+02 7.005E-01 -1.139E+01 -4.711E+00 -3.809E+01 -1.471E+02 -1.846E+02 -4.734E-01 -5.462E-01 -4.532E-01 | -6.629E+02 | 1.038E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.434E+02 | | 7.700E+00 2.304E+05 -1.260E+03 -9.961E+02 -4.636E+01 2.566E+05 -1.486E+06 3.070E+02 -1.554E+06 5.035E+02 -3.947E+02 -9.238E+01 -1.544E+00 4.162E+03 3.552E+03 1.850E+03 9.651E+01 6.379E+02 -1.299E+03 -2.378E+01 -1.116E+04 1.523E+01 1.230E+01 -2.752E+01 | -7.550E+01 | 1.451E+00

2.749E+03 | | -2.324E+02 1.287E+03 2.199E+06 -8.771E+03 1.606E+05 -1.322E+03 2.567E+03 -1.981E+03 -2.853E+04 -3.744E+03 1.491E+03 1.153E+03 4.139E+02 4.801E+04 6.788E+04 3.817E+04 2.223E+03 6.301E+02 3.821E+04 3.427E+02 1.526E+02 1.255E+02 -1.157E+02 -1.020E+01 | 1.546E+03 | -4.675E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 30.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-4.051E-04 | 2.771E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

9.951E-06 | -2.185E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

5.148E-06 | 1.593E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-3.836E-06 | -5.378E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-8.950E-04 | 7.011E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.565E-04 | -1.078E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.134E-06 | -8.479E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 5.236E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-6.679E-08 | 2.438E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.541E-01 | -1.791E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

4.553E-01 | -1.708E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-8.488E-04 | 4.439E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-2.198E-04 | -4.051E-04 | 1.784E-02 7.790E-02 -2.149E+02 -1.744E-01 2.416E+00 -4.717E-02 2.210E-01 -3.829E-02 -6.244E-01 -7.328E-02 3.596E-02 9.748E-03 -3.910E-02 9.381E-01 1.400E+00 7.428E-01 4.123E-02 1.232E-02 7.441E-01 9.470E-03 5.272E-03 2.187E-03 -2.477E-03 2.861E-04 | 4.056E-02 | -1.168E-03

1.128E-05 | 9.951E-06 | -4.700E-05 -1.105E+00 -3.674E-04 2.352E-03 3.806E-05 1.194E-02 -6.642E-02 1.378E-05 -7.233E-02 2.074E-05 -2.036E-05 9.510E-08 3.240E-08 -5.964E-03 1.796E-04 9.547E-05 5.035E-06 2.985E-05 -4.485E-05 -9.777E-07 -5.192E-04 9.139E-07 3.335E-07 -1.247E-06 | -3.075E-06 | 5.565E-08

1.168E-05 | 5.148E-06 | 9.073E-04 3.000E-03 -6.748E+00 -5.088E-03 7.198E-02 -1.385E-03 6.649E-03 -1.114E-03 -1.761E-02 -2.127E-03 1.051E-03 2.883E-04 -9.715E-04 2.729E-02 3.436E-02 2.161E-02 1.204E-03 3.582E-04 2.165E-02 2.686E-04 1.505E-04 6.363E-05 -7.206E-05 8.328E-06 | 1.156E-03 | -3.342E-05

2.481E-05 | -3.836E-06 | 8.257E-06 1.118E-01 -6.902E-04 -4.020E-01 3.635E-06 -7.063E-05 2.498E+01 -1.430E-07 3.188E-04 -2.105E-07 1.508E-07 1.693E-08 -4.176E-08 -3.831E-05 -3.483E-06 -3.597E-02 2.719E-08 -2.054E-07 5.302E-02 1.832E-08 2.306E-06 2.267E-10 -4.674E-09 5.610E-09 | 3.069E-07 | -2.628E-09

-1.849E-03 | -8.950E-04 | -9.734E-02 4.124E-02 8.176E+02 1.125E+00 -1.355E+01 2.473E-01 -1.674E+01 2.451E-01 5.750E+01 9.776E-01 2.776E-01 3.971E-01 6.577E-02 -6.777E+00 -1.325E+01 -4.692E+00 -3.194E-01 -1.015E-01 -4.732E+00 -7.485E-01 -3.384E-01 -1.478E-02 1.774E-02 -1.619E-03 | -2.688E+00 | 6.486E-02

1.048E-03 | 2.565E-04 | 5.400E-03 1.074E+02 -1.068E+01 1.310E-01 1.715E-01 -7.844E+00 1.614E+02 -1.900E-01 7.121E+01 -2.985E-01 2.662E-01 2.063E-02 -1.102E-03 -1.289E+00 -2.382E+00 -7.273E-01 -6.405E-02 -4.056E-02 -3.838E-01 1.904E-02 5.305E-01 -1.126E-02 -4.673E-03 1.590E-02 | 7.191E-02 | -7.517E-04

-8.304E-05 | 1.134E-06 | -1.921E-05 -3.237E-01 -3.478E-01 5.087E-01 -1.421E-02 5.301E-02 -4.657E+02 -2.043E-02 -4.112E+00 3.604E-02 1.069E-01 -1.412E-01 1.156E-03 -7.855E-01 1.756E+00 -2.817E+00 4.596E-02 -1.484E-02 -3.841E+00 -3.234E-02 -6.164E-02 -3.480E-03 -2.560E-03 6.179E-03 | -1.691E-01 | -1.512E-03

4.150E-05 | 1.267E+00 | -1.110E-06 -2.414E-02 2.866E-03 2.647E-05 -6.126E-05 2.502E-03 -4.483E-01 4.183E-05 1.726E+02 1.330E-04 1.007E-05 -1.318E-04 1.281E-06 -2.220E-04 2.354E-03 -2.323E-03 6.260E-05 -2.731E-07 -3.277E-03 -3.842E-05 1.236E+00 9.587E-07 -2.397E-07 0.000E+00 | -1.110E-04 | -8.941E-07

-2.017E-05 | -6.679E-08 | -3.833E-05 -2.314E+00 -7.001E-01 2.049E-03 1.369E-01 2.380E-01 -4.257E+01 1.326E-03 -2.411E+02 -3.967E-01 -3.998E-01 -4.140E-01 -1.159E-01 -1.628E+00 -9.898E+00 -4.519E-02 -1.121E-01 -5.089E-02 -1.364E-01 -1.635E+00 -3.362E+00 -4.825E-03 -5.371E-03 -5.048E-03 | -7.099E+00 | 1.157E-01

3.374E-01 | -4.541E-01 | 8.562E-02 8.945E+00 -7.834E+02 7.291E+00 3.043E+01 -1.280E+01 5.299E+03 -1.688E+01 -5.031E+03 -8.126E+01 -3.223E+01 -3.001E+01 -1.056E+01 -1.887E+02 -9.431E+02 -9.133E+01 -1.143E+01 -5.292E+00 -8.019E+01 -1.456E+02 -1.816E+02 -6.508E-01 -4.121E-01 -4.292E-01 | -6.448E+02 | 1.039E+01

3.287E-01 | 4.553E-01 | -4.470E-02 -8.318E+00 3.787E+02 -1.180E+01 8.276E+00 1.118E+01 1.430E+04 1.745E+01 -5.019E+03 -3.201E+01 -8.252E+01 -2.618E+01 -1.056E+01 -7.269E+01 -8.453E+02 1.647E+02 -8.651E+00 -3.461E+00 1.950E+02 -1.475E+02 -1.836E+02 -2.387E-01 -6.372E-01 -6.211E-01 | -6.486E+02 | 1.060E+01

-6.644E-01 | -8.488E-04 | -1.153E-02 1.901E-02 7.263E+01 3.117E+00 1.208E+01 9.774E-01 -1.940E+04 -1.418E+00 -5.239E+03 -3.010E+01 -2.611E+01 -8.457E+01 -1.038E+01 -1.657E+02 -9.491E+02 -2.604E+01 -1.165E+01 -4.897E+00 -6.730E+01 -1.470E+02 -1.845E+02 -5.250E-01 -5.222E-01 -4.250E-01 | -6.622E+02 | 1.034E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.376E+02 | | 7.704E+00 2.304E+05 -1.269E+03 -9.987E+02 -4.590E+01 2.566E+05 -1.486E+06 3.066E+02 -1.554E+06 4.654E+02 -4.479E+02 -1.161E+00 -1.524E+00 4.182E+03 3.550E+03 1.854E+03 9.629E+01 6.381E+02 -1.295E+03 -2.284E+01 -1.116E+04 1.904E+01 7.824E+00 -2.688E+01 | -7.315E+01 | 1.433E+00

2.738E+03 | | -2.323E+02 1.262E+03 2.199E+06 -8.797E+03 1.607E+05 -1.319E+03 1.544E+02 -1.971E+03 -2.862E+04 -3.664E+03 1.960E+03 6.022E+02 4.135E+02 4.819E+04 6.773E+04 3.830E+04 2.216E+03 6.327E+02 3.834E+04 3.393E+02 1.484E+02 1.127E+02 -1.272E+02 1.464E+01 | 1.565E+03 | -4.780E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 40.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-4.797E-04 | 2.770E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.139E-05 | -2.038E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

5.400E-06 | 1.601E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.588E-07 | -5.378E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-9.384E-04 | 6.882E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

4.077E-04 | -1.032E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.618E-06 | -8.487E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 5.411E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.432E-06 | 6.879E-08 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.004E-01 | -2.381E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

4.925E-01 | -1.054E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-9.197E-02 | 4.375E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-7.785E-04 | -4.797E-04 | 1.784E-02 7.573E-02 -2.149E+02 -1.755E-01 2.416E+00 -4.713E-02 3.479E-01 -3.823E-02 -6.246E-01 -6.982E-02 4.366E-02 -1.445E-03 -3.912E-02 9.352E-01 1.393E+00 7.439E-01 4.109E-02 1.233E-02 7.455E-01 9.094E-03 4.894E-03 1.870E-03 -2.624E-03 7.591E-04 | 4.224E-02 | -1.207E-03

9.770E-06 | 1.139E-05 | -4.700E-05 -1.105E+00 -3.583E-04 2.337E-03 3.810E-05 1.194E-02 -6.640E-02 1.375E-05 -7.233E-02 1.835E-05 -2.210E-05 4.212E-06 3.136E-08 -5.964E-03 1.812E-04 9.587E-05 5.031E-06 2.986E-05 -4.457E-05 -9.837E-07 -5.192E-04 1.060E-06 1.145E-07 -1.173E-06 | -2.635E-06 | 4.630E-08

-5.330E-06 | 5.400E-06 | 9.073E-04 2.933E-03 -6.748E+00 -5.123E-03 7.199E-02 -1.384E-03 1.032E-02 -1.112E-03 -1.762E-02 -2.026E-03 1.275E-03 -3.740E-05 -9.720E-04 2.721E-02 3.415E-02 2.164E-02 1.200E-03 3.584E-04 2.169E-02 2.577E-04 1.395E-04 5.440E-05 -7.633E-05 2.209E-05 | 1.205E-03 | -3.455E-05

2.291E-05 | -4.588E-07 | 8.999E-06 1.118E-01 -6.957E-04 -4.020E-01 3.403E-06 -7.064E-05 2.498E+01 -1.182E-07 3.185E-04 -1.855E-07 1.666E-07 -1.494E-08 -3.879E-08 -3.858E-05 -3.276E-06 -3.597E-02 2.469E-08 -2.048E-07 5.302E-02 1.727E-08 2.303E-06 -8.192E-10 -4.586E-09 5.998E-09 | 1.993E-07 | -2.174E-09

8.953E-04 | -9.384E-04 | -9.735E-02 4.959E-02 8.176E+02 1.129E+00 -1.355E+01 2.470E-01 -1.757E+01 2.446E-01 5.750E+01 9.600E-01 2.231E-01 4.693E-01 6.582E-02 -6.758E+00 -1.320E+01 -4.700E+00 -3.186E-01 -1.017E-01 -4.741E+00 -7.466E-01 -3.365E-01 -1.256E-02 1.876E-02 -4.911E-03 | -2.700E+00 | 6.519E-02

1.089E-03 | 4.077E-04 | 5.399E-03 1.074E+02 -1.068E+01 1.331E-01 1.711E-01 -7.843E+00 1.613E+02 -1.897E-01 7.121E+01 -2.692E-01 2.940E-01 -3.641E-02 -1.088E-03 -1.284E+00 -2.373E+00 -7.293E-01 -6.404E-02 -4.070E-02 -3.859E-01 1.900E-02 5.305E-01 -1.317E-02 -1.910E-03 1.504E-02 | 6.669E-02 | -6.437E-04

4.666E-05 | -1.618E-06 | -2.091E-05 -3.237E-01 -3.380E-01 5.136E-01 -1.441E-02 5.298E-02 -4.650E+02 -2.112E-02 -4.105E+00 6.018E-02 8.720E-02 -1.456E-01 1.133E-03 -8.105E-01 1.743E+00 -2.826E+00 4.613E-02 -1.516E-02 -3.849E+00 -3.215E-02 -6.140E-02 -4.288E-03 -1.577E-03 6.000E-03 | -1.665E-01 | -1.458E-03

9.710E-06 | 1.267E+00 | -1.281E-06 -2.415E-02 2.853E-03 6.062E-05 -6.664E-05 2.509E-03 -4.477E-01 5.208E-05 1.726E+02 1.517E-04 -2.085E-05 -1.129E-04 1.451E-06 -2.433E-04 2.338E-03 -2.333E-03 6.193E-05 0.000E+00 -3.282E-03 -3.671E-05 1.236E+00 9.587E-07 -9.587E-07 7.190E-07 | -1.964E-04 | -5.960E-07

9.177E-06 | -1.432E-06 | -3.825E-05 -2.314E+00 -7.001E-01 3.304E-03 1.369E-01 2.380E-01 -4.250E+01 1.178E-03 -2.411E+02 -3.954E-01 -4.016E-01 -4.135E-01 -1.159E-01 -1.632E+00 -9.887E+00 -4.917E-02 -1.122E-01 -5.100E-02 -1.402E-01 -1.636E+00 -3.363E+00 -4.870E-03 -5.377E-03 -4.994E-03 | -7.095E+00 | 1.158E-01

4.396E-01 | -4.004E-01 | 8.118E-02 7.951E+00 -7.430E+02 5.871E+00 2.984E+01 -1.156E+01 8.594E+03 -1.471E+01 -5.010E+03 -8.183E+01 -3.253E+01 -2.910E+01 -1.058E+01 -1.793E+02 -9.316E+02 -7.183E+01 -1.115E+01 -5.152E+00 -5.369E+01 -1.457E+02 -1.815E+02 -6.181E-01 -4.074E-01 -4.691E-01 | -6.432E+02 | 1.042E+01

2.096E-01 | 4.925E-01 | -5.357E-02 -9.068E+00 4.568E+02 -1.206E+01 6.585E+00 1.237E+01 1.159E+04 1.871E+01 -5.041E+03 -3.232E+01 -8.135E+01 -2.679E+01 -1.055E+01 -7.107E+01 -8.463E+02 1.700E+02 -8.732E+00 -3.435E+00 1.946E+02 -1.477E+02 -1.839E+02 -2.372E-01 -6.801E-01 -5.766E-01 | -6.500E+02 | 1.059E+01

-6.544E-01 | -9.197E-02 | 1.790E-03 1.753E+00 -4.613E+01 5.031E+00 1.436E+01 -1.448E+00 -1.997E+04 -4.863E+00 -5.237E+03 -2.920E+01 -2.673E+01 -8.514E+01 -1.039E+01 -1.770E+02 -9.562E+02 -5.172E+01 -1.189E+01 -5.083E+00 -9.421E+01 -1.469E+02 -1.844E+02 -5.731E-01 -4.852E-01 -4.137E-01 | -6.614E+02 | 1.033E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.248E+02 | | 7.708E+00 2.304E+05 -1.284E+03 -9.924E+02 -4.516E+01 2.566E+05 -1.486E+06 3.059E+02 -1.554E+06 4.130E+02 -4.875E+02 9.035E+01 -1.552E+00 4.178E+03 3.538E+03 1.859E+03 9.625E+01 6.384E+02 -1.290E+03 -2.287E+01 -1.116E+04 2.225E+01 3.180E+00 -2.542E+01 | -6.962E+01 | 1.277E+00

2.726E+03 | | -2.322E+02 1.280E+03 2.198E+06 -8.779E+03 1.607E+05 -1.317E+03 6.724E+03 -1.968E+03 -2.863E+04 -3.485E+03 2.355E+03 2.608E+01 4.126E+02 4.805E+04 6.735E+04 3.836E+04 2.209E+03 6.331E+02 3.841E+04 3.197E+02 1.288E+02 9.636E+01 -1.348E+02 3.896E+01 | 1.651E+03 | -4.979E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 50.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-6.058E-04 | 2.770E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.261E-05 | -1.872E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

4.066E-06 | 1.607E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.264E-06 | -5.378E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-7.545E-04 | 6.763E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

5.096E-04 | -9.677E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-3.072E-06 | -8.516E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 5.585E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.538E-06 | 7.442E-08 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-3.342E-01 | -2.888E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

5.144E-01 | -3.589E-02 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.806E-01 | 4.187E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-1.049E-03 | -6.058E-04 | 1.784E-02 7.578E-02 -2.149E+02 -1.756E-01 2.416E+00 -4.710E-02 6.146E-01 -3.831E-02 -6.234E-01 -6.454E-02 4.973E-02 -1.280E-02 -3.914E-02 9.271E-01 1.384E+00 7.432E-01 4.104E-02 1.228E-02 7.454E-01 8.736E-03 4.548E-03 1.497E-03 -2.693E-03 1.208E-03 | 4.673E-02 | -1.258E-03

8.131E-06 | 1.261E-05 | -4.700E-05 -1.105E+00 -3.694E-04 2.343E-03 3.813E-05 1.194E-02 -6.637E-02 1.370E-05 -7.233E-02 1.542E-05 -2.317E-05 8.219E-06 3.170E-08 -5.966E-03 1.821E-04 9.510E-05 5.031E-06 2.986E-05 -4.437E-05 -9.837E-07 -5.192E-04 1.173E-06 -1.078E-07 -1.063E-06 | -2.162E-06 | 3.985E-08

-1.396E-05 | 4.066E-06 | 9.073E-04 2.939E-03 -6.748E+00 -5.129E-03 7.199E-02 -1.383E-03 1.805E-02 -1.115E-03 -1.758E-02 -1.873E-03 1.452E-03 -3.679E-04 -9.727E-04 2.697E-02 3.390E-02 2.162E-02 1.199E-03 3.571E-04 2.169E-02 2.473E-04 1.294E-04 4.357E-05 -7.835E-05 3.515E-05 | 1.335E-03 | -3.603E-05

1.549E-05 | 2.264E-06 | 9.891E-06 1.118E-01 -7.248E-04 -4.020E-01 3.116E-06 -7.063E-05 2.498E+01 -1.361E-07 3.176E-04 -1.572E-07 1.713E-07 -5.337E-08 -3.561E-08 -3.889E-05 -3.101E-06 -3.597E-02 1.991E-08 -2.050E-07 5.302E-02 4.872E-09 2.283E-06 -2.970E-09 -4.286E-09 5.917E-09 | 1.800E-07 | -2.019E-09

1.752E-03 | -7.545E-04 | -9.735E-02 4.979E-02 8.177E+02 1.127E+00 -1.355E+01 2.467E-01 -1.931E+01 2.451E-01 5.749E+01 9.302E-01 1.788E-01 5.435E-01 6.590E-02 -6.704E+00 -1.314E+01 -4.694E+00 -3.184E-01 -1.014E-01 -4.739E+00 -7.454E-01 -3.354E-01 -9.955E-03 1.923E-02 -8.036E-03 | -2.735E+00 | 6.564E-02

3.571E-04 | 5.096E-04 | 5.398E-03 1.074E+02 -1.067E+01 1.313E-01 1.708E-01 -7.843E+00 1.611E+02 -1.891E-01 7.121E+01 -2.317E-01 3.127E-01 -9.254E-02 -1.100E-03 -1.266E+00 -2.362E+00 -7.296E-01 -6.407E-02 -4.064E-02 -3.870E-01 1.887E-02 5.303E-01 -1.468E-02 9.056E-04 1.372E-02 | 5.910E-02 | -5.764E-04

-6.918E-05 | -3.072E-06 | -2.424E-05 -3.236E-01 -3.205E-01 5.177E-01 -1.488E-02 5.291E-02 -4.645E+02 -2.175E-02 -4.099E+00 8.253E-02 6.497E-02 -1.457E-01 1.154E-03 -8.293E-01 1.739E+00 -2.835E+00 4.631E-02 -1.542E-02 -3.858E+00 -3.172E-02 -6.092E-02 -4.966E-03 -5.517E-04 5.640E-03 | -1.701E-01 | -1.406E-03

1.450E-05 | 1.267E+00 | -1.195E-06 -2.412E-02 2.850E-03 4.440E-05 -6.575E-05 2.504E-03 -4.471E-01 6.233E-05 1.726E+02 1.522E-04 -4.027E-05 -9.995E-05 1.281E-06 -2.681E-04 2.344E-03 -2.340E-03 6.305E-05 -5.461E-07 -3.290E-03 -3.330E-05 1.236E+00 0.000E+00 -7.190E-07 1.438E-06 | 1.708E-05 | -8.941E-07

2.025E-05 | 1.538E-06 | -3.825E-05 -2.315E+00 -6.994E-01 4.779E-03 1.369E-01 2.380E-01 -4.243E+01 1.007E-03 -2.411E+02 -3.944E-01 -4.035E-01 -4.127E-01 -1.160E-01 -1.634E+00 -9.881E+00 -5.089E-02 -1.124E-01 -5.113E-02 -1.418E-01 -1.636E+00 -3.363E+00 -4.922E-03 -5.377E-03 -4.943E-03 | -7.100E+00 | 1.158E-01

5.204E-01 | -3.342E-01 | 7.462E-02 6.726E+00 -6.838E+02 4.189E+00 2.888E+01 -9.977E+00 1.163E+04 -1.209E+01 -4.992E+03 -8.261E+01 -3.249E+01 -2.827E+01 -1.060E+01 -1.683E+02 -9.198E+02 -4.940E+01 -1.085E+01 -4.991E+00 -2.481E+01 -1.458E+02 -1.815E+02 -5.785E-01 -4.184E-01 -5.001E-01 | -6.427E+02 | 1.045E+01

1.072E-01 | 5.144E-01 | -6.048E-02 -9.546E+00 5.177E+02 -1.184E+01 5.213E+00 1.318E+01 8.536E+03 1.939E+01 -5.065E+03 -3.229E+01 -8.029E+01 -2.766E+01 -1.053E+01 -7.216E+01 -8.503E+02 1.706E+02 -8.882E+00 -3.453E+00 1.887E+02 -1.479E+02 -1.843E+02 -2.530E-01 -7.131E-01 -5.247E-01 | -6.518E+02 | 1.058E+01

-6.306E-01 | -1.806E-01 | 1.530E-02 3.443E+00 -1.665E+02 6.761E+00 1.670E+01 -3.842E+00 -1.995E+04 -8.175E+00 -5.232E+03 -2.838E+01 -2.761E+01 -8.538E+01 -1.040E+01 -1.868E+02 -9.621E+02 -7.496E+01 -1.210E+01 -5.251E+00 -1.174E+02 -1.467E+02 -1.842E+02 -6.126E-01 -4.404E-01 -4.198E-01 | -6.612E+02 | 1.033E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.072E+02 | | 7.707E+00 2.304E+05 -1.293E+03 -9.861E+02 -4.449E+01 2.566E+05 -1.486E+06 3.051E+02 -1.554E+06 3.487E+02 -5.123E+02 1.797E+02 -1.531E+00 4.152E+03 3.521E+03 1.863E+03 9.626E+01 6.384E+02 -1.286E+03 -2.276E+01 -1.116E+04 2.480E+01 -1.557E+00 -2.318E+01 | -5.627E+01 | 1.129E+00

2.716E+03 | | -2.322E+02 1.276E+03 2.198E+06 -8.710E+03 1.607E+05 -1.315E+03 2.050E+04 -1.972E+03 -2.856E+04 -3.213E+03 2.667E+03 -5.584E+02 4.114E+02 4.763E+04 6.692E+04 3.833E+04 2.206E+03 6.307E+02 3.841E+04 3.011E+02 1.107E+02 7.723E+01 -1.384E+02 6.206E+01 | 1.882E+03 | -5.238E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 60.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-7.753E-04 | 2.769E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.361E-05 | -1.692E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.381E-06 | 1.611E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

3.450E-06 | -5.377E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-3.855E-04 | 6.682E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

5.404E-04 | -8.946E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.579E-06 | -8.574E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 5.760E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.063E-06 | 3.128E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.575E-01 | -3.296E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

5.205E-01 | 3.556E-02 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.640E-01 | 3.880E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-1.371E-03 | -7.753E-04 | 1.784E-02 7.593E-02 -2.149E+02 -1.708E-01 2.416E+00 -4.709E-02 9.496E-01 -3.853E-02 -6.210E-01 -5.762E-02 5.402E-02 -2.401E-02 -3.914E-02 9.163E-01 1.377E+00 7.400E-01 4.104E-02 1.218E-02 7.428E-01 8.512E-03 4.341E-03 1.081E-03 -2.686E-03 1.621E-03 | 4.895E-02 | -1.291E-03

6.548E-06 | 1.361E-05 | -4.700E-05 -1.105E+00 -3.734E-04 2.349E-03 3.816E-05 1.194E-02 -6.634E-02 1.365E-05 -7.233E-02 1.202E-05 -2.353E-05 1.198E-05 3.542E-08 -5.968E-03 1.820E-04 9.312E-05 5.039E-06 2.984E-05 -4.447E-05 -9.699E-07 -5.192E-04 1.250E-06 -3.268E-07 -9.203E-07 | -1.491E-06 | 2.721E-08

-2.372E-05 | 1.381E-06 | 9.073E-04 2.952E-03 -6.748E+00 -4.984E-03 7.200E-02 -1.383E-03 2.777E-02 -1.121E-03 -1.752E-02 -1.672E-03 1.577E-03 -6.941E-04 -9.727E-04 2.665E-02 3.370E-02 2.152E-02 1.198E-03 3.541E-04 2.162E-02 2.407E-04 1.234E-04 3.146E-05 -7.813E-05 4.716E-05 | 1.400E-03 | -3.699E-05

1.121E-06 | 3.450E-06 | 1.078E-05 1.119E-01 -7.440E-04 -4.020E-01 2.794E-06 -7.059E-05 2.498E+01 -1.345E-07 3.174E-04 -1.217E-07 1.652E-07 -7.820E-08 -3.214E-08 -3.913E-05 -2.803E-06 -3.597E-02 1.677E-08 -2.049E-07 5.302E-02 9.100E-09 2.285E-06 -3.019E-09 -2.409E-09 4.850E-09 | 2.596E-07 | -1.997E-09

3.433E-03 | -3.855E-04 | -9.735E-02 4.976E-02 8.177E+02 1.104E+00 -1.355E+01 2.466E-01 -2.149E+01 2.465E-01 5.748E+01 8.891E-01 1.457E-01 6.177E-01 6.583E-02 -6.631E+00 -1.310E+01 -4.671E+00 -3.185E-01 -1.007E-01 -4.721E+00 -7.454E-01 -3.355E-01 -7.048E-03 1.917E-02 -1.091E-02 | -2.752E+00 | 6.593E-02

7.583E-05 | 5.404E-04 | 5.397E-03 1.074E+02 -1.067E+01 1.287E-01 1.706E-01 -7.843E+00 1.608E+02 -1.883E-01 7.121E+01 -1.874E-01 3.219E-01 -1.460E-01 -1.160E-03 -1.241E+00 -2.352E+00 -7.259E-01 -6.420E-02 -4.034E-02 -3.846E-01 1.854E-02 5.299E-01 -1.573E-02 3.696E-03 1.198E-02 | 5.223E-02 | -4.252E-04

5.080E-05 | -4.579E-06 | -2.791E-05 -3.234E-01 -2.998E-01 5.199E-01 -1.552E-02 5.281E-02 -4.644E+02 -2.215E-02 -4.095E+00 1.025E-01 4.085E-02 -1.415E-01 1.225E-03 -8.368E-01 1.747E+00 -2.846E+00 4.648E-02 -1.555E-02 -3.867E+00 -3.112E-02 -6.029E-02 -5.491E-03 4.908E-04 5.112E-03 | -1.766E-01 | -1.342E-03

5.527E-05 | 1.267E+00 | -1.451E-06 -2.409E-02 2.900E-03 3.159E-05 -5.722E-05 2.499E-03 -4.469E-01 3.500E-05 1.726E+02 1.460E-04 -7.142E-05 -7.957E-05 1.366E-06 -2.826E-04 2.343E-03 -2.352E-03 6.328E-05 -8.192E-07 -3.296E-03 -3.244E-05 1.236E+00 2.397E-07 -7.190E-07 7.190E-07 | -1.025E-04 | -8.941E-07

-2.023E-05 | 1.063E-06 | -3.842E-05 -2.315E+00 -6.983E-01 5.848E-03 1.368E-01 2.380E-01 -4.238E+01 8.495E-04 -2.411E+02 -3.936E-01 -4.054E-01 -4.116E-01 -1.160E-01 -1.634E+00 -9.881E+00 -5.277E-02 -1.126E-01 -5.124E-02 -1.435E-01 -1.637E+00 -3.364E+00 -4.977E-03 -5.369E-03 -4.897E-03 | -7.105E+00 | 1.159E-01

5.896E-01 | -2.575E-01 | 6.611E-02 5.304E+00 -6.073E+02 2.330E+00 2.756E+01 -8.094E+00 1.431E+04 -9.119E+00 -4.977E+03 -8.352E+01 -3.209E+01 -2.763E+01 -1.061E+01 -1.564E+02 -9.084E+02 -2.491E+01 -1.055E+01 -4.814E+00 5.387E+00 -1.460E+02 -1.816E+02 -5.371E-01 -4.437E-01 -5.180E-01 | -6.423E+02 | 1.048E+01

-1.740E-02 | 5.205E-01 | -6.530E-02 -9.727E+00 5.596E+02 -1.117E+01 4.188E+00 1.359E+01 5.240E+03 1.945E+01 -5.090E+03 -3.191E+01 -7.947E+01 -2.869E+01 -1.052E+01 -7.593E+01 -8.571E+02 1.661E+02 -9.081E+00 -3.511E+00 1.772E+02 -1.480E+02 -1.846E+02 -2.845E-01 -7.320E-01 -4.714E-01 | -6.538E+02 | 1.057E+01

-5.763E-01 | -2.640E-01 | 2.861E-02 5.041E+00 -2.850E+02 8.184E+00 1.905E+01 -6.130E+00 -1.933E+04 -1.124E+01 -5.222E+03 -2.775E+01 -2.865E+01 -8.529E+01 -1.041E+01 -1.949E+02 -9.670E+02 -9.521E+01 -1.226E+01 -5.393E+00 -1.363E+02 -1.466E+02 -1.839E+02 -6.391E-01 -3.927E-01 -4.422E-01 | -6.608E+02 | 1.032E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.872E+02 | | 7.714E+00 2.304E+05 -1.299E+03 -9.799E+02 -4.396E+01 2.566E+05 -1.485E+06 3.040E+02 -1.554E+06 2.736E+02 -5.213E+02 2.637E+02 -1.456E+00 4.113E+03 3.503E+03 1.860E+03 9.644E+01 6.379E+02 -1.288E+03 -2.248E+01 -1.116E+04 2.656E+01 -6.274E+00 -2.022E+01 | -4.076E+01 | 8.803E-01

2.707E+03 | | -2.322E+02 1.274E+03 2.198E+06 -8.653E+03 1.607E+05 -1.315E+03 3.781E+04 -1.983E+03 -2.844E+04 -2.856E+03 2.887E+03 -1.135E+03 4.114E+02 4.707E+04 6.655E+04 3.816E+04 2.206E+03 6.254E+02 3.828E+04 2.893E+02 9.984E+01 5.586E+01 -1.380E+02 8.330E+01 | 1.995E+03 | -5.407E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 70.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-9.609E-04 | 2.767E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.437E-05 | -1.499E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.797E-06 | 1.611E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.636E-06 | -5.377E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

5.796E-05 | 6.660E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

5.041E-04 | -8.219E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-3.707E-06 | -8.630E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 5.934E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.102E-07 | 3.450E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.727E-01 | -3.593E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

5.110E-01 | 1.068E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-3.391E-01 | 3.463E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-1.312E-03 | -9.609E-04 | 1.784E-02 7.719E-02 -2.149E+02 -1.704E-01 2.416E+00 -4.710E-02 1.263E+00 -3.881E-02 -6.182E-01 -4.923E-02 5.641E-02 -3.478E-02 -3.912E-02 9.053E-01 1.373E+00 7.365E-01 4.109E-02 1.207E-02 7.400E-01 8.725E-03 4.575E-03 6.334E-04 -2.603E-03 1.988E-03 | 4.786E-02 | -1.339E-03

4.353E-06 | 1.437E-05 | -4.699E-05 -1.105E+00 -3.824E-04 2.343E-03 3.817E-05 1.194E-02 -6.631E-02 1.361E-05 -7.233E-02 8.251E-06 -2.318E-05 1.540E-05 3.405E-08 -5.970E-03 1.808E-04 9.089E-05 5.041E-06 2.982E-05 -4.451E-05 -9.626E-07 -5.192E-04 1.289E-06 -5.367E-07 -7.490E-07 | -1.560E-06 | 2.398E-08

-2.207E-05 | -1.797E-06 | 9.073E-04 3.000E-03 -6.748E+00 -4.974E-03 7.199E-02 -1.383E-03 3.687E-02 -1.129E-03 -1.744E-02 -1.427E-03 1.646E-03 -1.007E-03 -9.721E-04 2.633E-02 3.359E-02 2.142E-02 1.200E-03 3.511E-04 2.154E-02 2.469E-04 1.302E-04 1.843E-05 -7.571E-05 5.783E-05 | 1.368E-03 | -3.839E-05

-1.263E-05 | 2.636E-06 | 1.196E-05 1.118E-01 -7.430E-04 -4.020E-01 2.467E-06 -7.052E-05 2.498E+01 -9.332E-08 3.175E-04 -9.105E-08 1.708E-07 -1.036E-07 -2.804E-08 -3.925E-05 -2.545E-06 -3.597E-02 1.280E-08 -2.073E-07 5.302E-02 1.381E-08 2.286E-06 -4.071E-09 -1.807E-09 5.449E-09 | 3.051E-07 | -1.114E-09

2.952E-03 | 5.796E-05 | -9.735E-02 4.547E-02 8.176E+02 1.098E+00 -1.355E+01 2.467E-01 -2.354E+01 2.483E-01 5.746E+01 8.377E-01 1.248E-01 6.899E-01 6.564E-02 -6.557E+00 -1.307E+01 -4.647E+00 -3.188E-01 -1.001E-01 -4.700E+00 -7.479E-01 -3.381E-01 -3.919E-03 1.858E-02 -1.346E-02 | -2.745E+00 | 6.621E-02

-5.826E-04 | 5.041E-04 | 5.397E-03 1.074E+02 -1.067E+01 1.252E-01 1.706E-01 -7.843E+00 1.605E+02 -1.878E-01 7.120E+01 -1.375E-01 3.212E-01 -1.952E-01 -1.145E-03 -1.215E+00 -2.347E+00 -7.236E-01 -6.425E-02 -4.010E-02 -3.837E-01 1.838E-02 5.298E-01 -1.630E-02 6.381E-03 9.866E-03 | 5.541E-02 | -3.957E-04

-3.937E-05 | -3.707E-06 | -3.192E-05 -3.232E-01 -2.812E-01 5.195E-01 -1.613E-02 5.271E-02 -4.647E+02 -2.220E-02 -4.095E+00 1.195E-01 1.554E-02 -1.331E-01 1.281E-03 -8.305E-01 1.762E+00 -2.851E+00 4.672E-02 -1.547E-02 -3.874E+00 -3.037E-02 -5.954E-02 -5.846E-03 1.522E-03 4.432E-03 | -1.799E-01 | -1.322E-03

5.952E-05 | 1.267E+00 | -1.366E-06 -2.411E-02 2.918E-03 3.671E-05 -6.373E-05 2.511E-03 -4.470E-01 1.708E-05 1.726E+02 1.445E-04 -9.467E-05 -5.968E-05 1.793E-06 -2.852E-04 2.365E-03 -2.357E-03 6.395E-05 -1.365E-06 -3.308E-03 -3.159E-05 1.236E+00 0.000E+00 -2.397E-07 0.000E+00 | -3.586E-04 | -1.192E-06

4.132E-06 | -1.102E-07 | -3.876E-05 -2.315E+00 -6.967E-01 6.130E-03 1.368E-01 2.379E-01 -4.237E+01 8.102E-04 -2.411E+02 -3.931E-01 -4.072E-01 -4.102E-01 -1.161E-01 -1.635E+00 -9.887E+00 -5.210E-02 -1.127E-01 -5.132E-02 -1.428E-01 -1.637E+00 -3.364E+00 -5.029E-03 -5.363E-03 -4.862E-03 | -7.111E+00 | 1.159E-01

6.385E-01 | -1.727E-01 | 5.593E-02 3.731E+00 -5.159E+02 3.625E-01 2.591E+01 -5.973E+00 1.658E+04 -5.876E+00 -4.966E+03 -8.442E+01 -3.138E+01 -2.724E+01 -1.063E+01 -1.445E+02 -8.978E+02 1.036E+00 -1.024E+01 -4.632E+00 3.616E+01 -1.462E+02 -1.817E+02 -4.988E-01 -4.813E-01 -5.207E-01 | -6.423E+02 | 1.050E+01

-1.202E-01 | 5.110E-01 | -6.787E-02 -9.607E+00 5.815E+02 -1.016E+01 3.540E+00 1.358E+01 1.792E+03 1.891E+01 -5.114E+03 -3.122E+01 -7.897E+01 -2.975E+01 -1.051E+01 -8.211E+01 -8.659E+02 1.569E+02 -9.318E+00 -3.607E+00 1.606E+02 -1.481E+02 -1.848E+02 -3.277E-01 -7.361E-01 -4.228E-01 | -6.562E+02 | 1.055E+01

-5.121E-01 | -3.391E-01 | 4.138E-02 6.498E+00 -3.983E+02 9.215E+00 2.133E+01 -8.241E+00 -1.814E+04 -1.396E+01 -5.209E+03 -2.737E+01 -2.973E+01 -8.490E+01 -1.043E+01 -2.011E+02 -9.708E+02 -1.117E+02 -1.237E+01 -5.502E+00 -1.503E+02 -1.464E+02 -1.836E+02 -6.493E-01 -3.488E-01 -4.784E-01 | -6.601E+02 | 1.032E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.670E+02 | | 7.715E+00 2.304E+05 -1.301E+03 -9.723E+02 -4.354E+01 2.566E+05 -1.485E+06 3.033E+02 -1.554E+06 1.905E+02 -5.144E+02 3.400E+02 -1.488E+00 4.069E+03 3.492E+03 1.858E+03 9.646E+01 6.375E+02 -1.288E+03 -2.228E+01 -1.116E+04 2.752E+01 -1.081E+01 -1.664E+01 | -4.493E+01 | 8.385E-01

2.703E+03 | | -2.322E+02 1.262E+03 2.198E+06 -8.552E+03 1.607E+05 -1.316E+03 5.402E+04 -1.998E+03 -2.830E+04 -2.424E+03 3.009E+03 -1.688E+03 4.125E+02 4.651E+04 6.635E+04 3.799E+04 2.209E+03 6.200E+02 3.813E+04 3.000E+02 1.117E+02 3.283E+01 -1.338E+02 1.022E+02 | 1.939E+03 | -5.656E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 80.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-1.143E-03 | 2.766E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.486E-05 | -1.297E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.871E-06 | 1.606E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

6.215E-08 | -5.377E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

4.872E-04 | 6.698E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

4.071E-04 | -7.586E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.462E-06 | -8.675E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 6.109E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.340E-07 | 3.603E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-8.289E-02 | -3.770E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

4.865E-01 | 1.756E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.038E-01 | 2.950E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-1.214E-03 | -1.143E-03 | 1.784E-02 7.631E-02 -2.149E+02 -1.713E-01 2.416E+00 -4.713E-02 1.472E+00 -3.900E-02 -6.156E-01 -3.960E-02 5.682E-02 -4.479E-02 -3.910E-02 8.970E-01 1.374E+00 7.326E-01 4.120E-02 1.203E-02 7.366E-01 9.047E-03 4.915E-03 1.673E-04 -2.437E-03 2.294E-03 | 4.625E-02 | -1.294E-03

2.427E-06 | 1.486E-05 | -4.699E-05 -1.105E+00 -3.950E-04 2.342E-03 3.817E-05 1.194E-02 -6.629E-02 1.365E-05 -7.233E-02 4.241E-06 -2.212E-05 1.834E-05 3.112E-08 -5.972E-03 1.789E-04 8.858E-05 5.039E-06 2.981E-05 -4.473E-05 -9.680E-07 -5.192E-04 1.288E-06 -7.296E-07 -5.544E-07 | -2.234E-06 | 4.190E-08

-1.889E-05 | -4.871E-06 | 9.073E-04 2.979E-03 -6.748E+00 -5.008E-03 7.199E-02 -1.384E-03 4.292E-02 -1.135E-03 -1.736E-02 -1.147E-03 1.658E-03 -1.299E-03 -9.714E-04 2.609E-02 3.361E-02 2.131E-02 1.203E-03 3.499E-04 2.143E-02 2.563E-04 1.400E-04 4.873E-06 -7.090E-05 6.674E-05 | 1.321E-03 | -3.708E-05

-2.372E-05 | 6.215E-08 | 1.285E-05 1.117E-01 -7.659E-04 -4.020E-01 2.149E-06 -7.043E-05 2.498E+01 -8.510E-08 3.169E-04 -5.369E-08 1.646E-07 -1.190E-07 -2.397E-08 -3.927E-05 -2.189E-06 -3.597E-02 9.806E-09 -2.087E-07 5.302E-02 1.373E-08 2.288E-06 -5.420E-09 -1.829E-10 5.127E-09 | 2.673E-07 | -1.501E-09

2.821E-03 | 4.872E-04 | -9.734E-02 4.903E-02 8.176E+02 1.098E+00 -1.355E+01 2.469E-01 -2.490E+01 2.494E-01 5.744E+01 7.775E-01 1.167E-01 7.581E-01 6.536E-02 -6.503E+00 -1.308E+01 -4.617E+00 -3.197E-01 -9.997E-02 -4.673E+00 -7.503E-01 -3.406E-01 -6.673E-04 1.741E-02 -1.558E-02 | -2.742E+00 | 6.619E-02

-7.699E-04 | 4.071E-04 | 5.397E-03 1.074E+02 -1.068E+01 1.219E-01 1.708E-01 -7.843E+00 1.602E+02 -1.883E-01 7.120E+01 -8.352E-02 3.106E-01 -2.386E-01 -1.106E-03 -1.195E+00 -2.348E+00 -7.200E-01 -6.424E-02 -4.011E-02 -3.813E-01 1.847E-02 5.299E-01 -1.637E-02 8.864E-03 7.443E-03 | 6.241E-02 | -6.057E-04

5.368E-05 | -2.462E-06 | -3.460E-05 -3.230E-01 -2.697E-01 5.168E-01 -1.658E-02 5.264E-02 -4.653E+02 -2.192E-02 -4.097E+00 1.330E-01 -1.025E-02 -1.208E-01 1.340E-03 -8.107E-01 1.780E+00 -2.853E+00 4.697E-02 -1.527E-02 -3.877E+00 -2.987E-02 -5.906E-02 -6.030E-03 2.511E-03 3.614E-03 | -1.778E-01 | -1.426E-03

6.263E-05 | 1.267E+00 | -1.451E-06 -2.412E-02 2.912E-03 5.379E-05 -7.898E-05 2.493E-03 -4.475E-01 3.927E-05 1.726E+02 1.443E-04 -1.031E-04 -3.068E-05 1.281E-06 -2.732E-04 2.364E-03 -2.360E-03 6.395E-05 -5.461E-07 -3.307E-03 -3.244E-05 1.236E+00 -4.794E-07 -4.794E-07 1.198E-06 | 2.220E-04 | -8.941E-07

-8.047E-06 | 1.340E-07 | -3.885E-05 -2.314E+00 -6.947E-01 5.572E-03 1.367E-01 2.380E-01 -4.241E+01 8.418E-04 -2.411E+02 -3.929E-01 -4.089E-01 -4.087E-01 -1.162E-01 -1.634E+00 -9.894E+00 -4.875E-02 -1.128E-01 -5.134E-02 -1.395E-01 -1.637E+00 -3.364E+00 -5.085E-03 -5.331E-03 -4.835E-03 | -7.117E+00 | 1.163E-01

6.617E-01 | -8.289E-02 | 4.431E-02 2.052E+00 -4.118E+02 -1.623E+00 2.400E+01 -3.681E+00 1.836E+04 -2.475E+00 -4.958E+03 -8.521E+01 -3.043E+01 -2.718E+01 -1.065E+01 -1.327E+02 -8.880E+02 2.769E+01 -9.936E+00 -4.447E+00 6.659E+01 -1.464E+02 -1.819E+02 -4.694E-01 -5.245E-01 -5.067E-01 | -6.426E+02 | 1.056E+01

-2.354E-01 | 4.865E-01 | -6.814E-02 -9.181E+00 5.827E+02 -8.915E+00 3.288E+00 1.315E+01 -1.713E+03 1.780E+01 -5.139E+03 -3.029E+01 -7.883E+01 -3.074E+01 -1.049E+01 -8.988E+01 -8.760E+02 1.433E+02 -9.590E+00 -3.727E+00 1.396E+02 -1.480E+02 -1.850E+02 -3.787E-01 -7.206E-01 -3.840E-01 | -6.584E+02 | 1.057E+01

-4.245E-01 | -4.038E-01 | 5.323E-02 7.763E+00 -5.032E+02 9.869E+00 2.350E+01 -1.011E+01 -1.641E+04 -1.626E+01 -5.192E+03 -2.731E+01 -3.073E+01 -8.427E+01 -1.045E+01 -2.050E+02 -9.733E+02 -1.239E+02 -1.243E+01 -5.578E+00 -1.588E+02 -1.463E+02 -1.833E+02 -6.434E-01 -3.115E-01 -5.232E-01 | -6.589E+02 | 1.034E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.495E+02 | | 7.713E+00 2.304E+05 -1.294E+03 -9.673E+02 -4.358E+01 2.566E+05 -1.484E+06 3.041E+02 -1.554E+06 1.016E+02 -4.917E+02 4.059E+02 -1.556E+00 4.033E+03 3.488E+03 1.854E+03 9.639E+01 6.374E+02 -1.291E+03 -2.253E+01 -1.116E+04 2.763E+01 -1.501E+01 -1.257E+01 | -5.966E+01 | 1.191E+00

2.705E+03 | | -2.323E+02 1.274E+03 2.199E+06 -8.464E+03 1.607E+05 -1.317E+03 6.484E+04 -2.008E+03 -2.816E+04 -1.927E+03 3.029E+03 -2.203E+03 4.137E+02 4.608E+04 6.639E+04 3.779E+04 2.214E+03 6.180E+02 3.795E+04 3.165E+02 1.290E+02 8.868E+00 -1.253E+02 1.179E+02 | 1.854E+03 | -5.418E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 90.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-1.285E-03 | 2.764E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.504E-05 | -1.091E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-6.691E-06 | 1.598E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-3.525E-06 | -5.377E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

7.571E-04 | 6.786E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.777E-04 | -7.112E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.617E-07 | -8.692E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | -4.768E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-3.656E-07 | 3.093E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

8.774E-03 | -3.821E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

4.475E-01 | 2.401E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.561E-01 | 2.357E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-8.546E-04 | -1.285E-03 | 1.784E-02 7.861E-02 -2.148E+02 -1.689E-01 2.416E+00 -4.718E-02 1.520E+00 -3.908E-02 -6.138E-01 -2.898E-02 5.522E-02 -5.378E-02 -3.907E-02 8.938E-01 1.378E+00 7.308E-01 4.134E-02 1.198E-02 7.348E-01 9.415E-03 5.299E-03 -3.045E-04 -2.238E-03 2.531E-03 | 4.443E-02 | -1.228E-03

2.487E-08 | 1.504E-05 | -4.699E-05 -1.105E+00 -3.971E-04 2.339E-03 3.815E-05 1.194E-02 -6.629E-02 1.365E-05 -7.233E-02 1.177E-07 -2.037E-05 2.072E-05 3.545E-08 -5.973E-03 1.767E-04 8.720E-05 5.051E-06 2.980E-05 -4.492E-05 -9.817E-07 -5.192E-04 1.248E-06 -9.063E-07 -3.417E-07 | -2.379E-06 | 4.844E-08

-7.960E-06 | -6.691E-06 | 9.073E-04 3.054E-03 -6.748E+00 -4.935E-03 7.198E-02 -1.385E-03 4.428E-02 -1.137E-03 -1.731E-02 -8.382E-04 1.612E-03 -1.560E-03 -9.706E-04 2.600E-02 3.371E-02 2.126E-02 1.207E-03 3.484E-04 2.138E-02 2.670E-04 1.512E-04 -8.852E-06 -6.511E-05 7.363E-05 | 1.268E-03 | -3.514E-05

-2.733E-05 | -3.525E-06 | 1.404E-05 1.116E-01 -7.697E-04 -4.020E-01 1.868E-06 -7.032E-05 2.498E+01 -9.349E-08 3.173E-04 -2.527E-08 1.399E-07 -1.397E-07 -1.998E-08 -3.917E-05 -1.862E-06 -3.597E-02 4.287E-09 -2.118E-07 5.302E-02 1.498E-08 2.292E-06 -5.683E-09 1.024E-09 4.008E-09 | 2.501E-07 | -1.673E-09

1.136E-03 | 7.571E-04 | -9.733E-02 4.039E-02 8.175E+02 1.087E+00 -1.355E+01 2.472E-01 -2.522E+01 2.500E-01 5.743E+01 7.099E-01 1.219E-01 8.203E-01 6.515E-02 -6.484E+00 -1.310E+01 -4.605E+00 -3.206E-01 -9.962E-02 -4.662E+00 -7.530E-01 -3.434E-01 2.624E-03 1.597E-02 -1.722E-02 | -2.732E+00 | 6.583E-02

-1.057E-03 | 2.777E-04 | 5.399E-03 1.074E+02 -1.068E+01 1.195E-01 1.711E-01 -7.844E+00 1.602E+02 -1.886E-01 7.121E+01 -2.723E-02 2.904E-01 -2.747E-01 -1.159E-03 -1.187E+00 -2.350E+00 -7.183E-01 -6.438E-02 -3.995E-02 -3.803E-01 1.873E-02 5.301E-01 -1.593E-02 1.114E-02 4.782E-03 | 6.453E-02 | -6.697E-04

-2.533E-05 | -4.617E-07 | -3.621E-05 -3.228E-01 -2.684E-01 5.128E-01 -1.673E-02 5.261E-02 -4.661E+02 -2.156E-02 -4.103E+00 1.426E-01 -3.577E-02 -1.048E-01 1.341E-03 -7.864E-01 1.792E+00 -2.846E+00 4.703E-02 -1.499E-02 -3.872E+00 -2.977E-02 -5.900E-02 -6.035E-03 3.496E-03 2.681E-03 | -1.767E-01 | -1.518E-03

5.325E-05 | 1.267E+00 | -1.366E-06 -2.415E-02 2.892E-03 5.806E-05 -6.530E-05 2.494E-03 -4.482E-01 5.208E-05 1.726E+02 1.428E-04 -1.270E-04 -1.055E-05 9.392E-07 -2.570E-04 2.372E-03 -2.356E-03 6.283E-05 -1.365E-06 -3.307E-03 -3.415E-05 1.236E+00 -4.794E-07 -4.794E-07 1.198E-06 | -4.183E-04 | -1.788E-06

1.469E-05 | -3.656E-07 | -3.919E-05 -2.314E+00 -6.939E-01 4.515E-03 1.366E-01 2.380E-01 -4.247E+01 1.118E-03 -2.411E+02 -3.931E-01 -4.104E-01 -4.071E-01 -1.162E-01 -1.631E+00 -9.906E+00 -5.058E-02 -1.127E-01 -5.142E-02 -1.415E-01 -1.637E+00 -3.364E+00 -5.144E-03 -5.393E-03 -4.814E-03 | -7.118E+00 | 1.165E-01

6.675E-01 | 8.774E-03 | 3.159E-02 3.274E-01 -2.983E+02 -3.547E+00 2.186E+01 -1.290E+00 1.959E+04 1.001E+00 -4.955E+03 -8.579E+01 -2.934E+01 -2.743E+01 -1.065E+01 -1.214E+02 -8.791E+02 5.341E+01 -9.630E+00 -4.274E+00 9.494E+01 -1.466E+02 -1.821E+02 -4.538E-01 -5.803E-01 -4.775E-01 | -6.429E+02 | 1.060E+01

-3.288E-01 | 4.475E-01 | -6.605E-02 -8.477E+00 5.628E+02 -7.508E+00 3.443E+00 1.232E+01 -5.176E+03 1.618E+01 -5.162E+03 -2.921E+01 -7.908E+01 -3.154E+01 -1.047E+01 -9.882E+01 -8.872E+02 1.252E+02 -9.873E+00 -3.875E+00 1.142E+02 -1.480E+02 -1.851E+02 -4.319E-01 -7.013E-01 -3.595E-01 | -6.601E+02 | 1.057E+01

-3.332E-01 | -4.561E-01 | 6.382E-02 8.803E+00 -5.966E+02 1.022E+01 2.547E+01 -1.167E+01 -1.418E+04 -1.805E+01 -5.173E+03 -2.757E+01 -3.154E+01 -8.349E+01 -1.047E+01 -2.072E+02 -9.748E+02 -1.322E+02 -1.244E+01 -5.630E+00 -1.624E+02 -1.461E+02 -1.830E+02 -6.227E-01 -2.926E-01 -5.713E-01 | -6.571E+02 | 1.036E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.364E+02 | | 7.708E+00 2.304E+05 -1.285E+03 -9.677E+02 -4.403E+01 2.566E+05 -1.484E+06 3.042E+02 -1.554E+06 9.912E+00 -4.537E+02 4.597E+02 -1.474E+00 4.014E+03 3.490E+03 1.850E+03 9.663E+01 6.371E+02 -1.294E+03 -2.289E+01 -1.116E+04 2.690E+01 -1.886E+01 -8.054E+00 | -5.945E+01 | 1.329E+00

2.712E+03 | | -2.323E+02 1.256E+03 2.199E+06 -8.452E+03 1.607E+05 -1.320E+03 6.736E+04 -2.012E+03 -2.807E+04 -1.381E+03 2.946E+03 -2.665E+03 4.151E+02 4.591E+04 6.657E+04 3.769E+04 2.221E+03 6.153E+02 3.787E+04 3.354E+02 1.487E+02 -1.539E+01 -1.151E+02 1.302E+02 | 1.761E+03 | -5.073E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 100.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-1.374E-03 | 2.762E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.487E-05 | -8.844E-06 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-6.899E-06 | 1.589E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-7.279E-06 | -5.378E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

8.110E-04 | 6.897E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.473E-04 | -6.822E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.359E-06 | -8.690E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 1.745E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

4.667E-07 | 3.515E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

9.948E-02 | -3.746E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

3.956E-01 | 2.983E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.946E-01 | 1.700E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-4.550E-04 | -1.374E-03 | 1.784E-02 7.770E-02 -2.148E+02 -1.676E-01 2.416E+00 -4.723E-02 1.394E+00 -3.912E-02 -6.136E-01 -1.769E-02 5.164E-02 -6.146E-02 -3.908E-02 8.966E-01 1.383E+00 7.310E-01 4.138E-02 1.202E-02 7.347E-01 9.779E-03 5.664E-03 -7.679E-04 -1.926E-03 2.691E-03 | 4.402E-02 | -1.222E-03

-2.498E-06 | 1.487E-05 | -4.700E-05 -1.105E+00 -3.904E-04 2.336E-03 3.812E-05 1.194E-02 -6.631E-02 1.368E-05 -7.233E-02 -3.995E-06 -1.801E-05 2.249E-05 3.166E-08 -5.972E-03 1.746E-04 8.702E-05 5.043E-06 2.980E-05 -4.503E-05 -9.986E-07 -5.192E-04 1.169E-06 -1.050E-06 -1.183E-07 | -2.627E-06 | 5.233E-08

4.498E-06 | -6.899E-06 | 9.072E-04 3.024E-03 -6.747E+00 -4.894E-03 7.197E-02 -1.387E-03 4.056E-02 -1.138E-03 -1.730E-02 -5.096E-04 1.507E-03 -1.784E-03 -9.708E-04 2.609E-02 3.386E-02 2.126E-02 1.208E-03 3.495E-04 2.138E-02 2.776E-04 1.618E-04 -2.233E-05 -5.603E-05 7.830E-05 | 1.256E-03 | -3.497E-05

-2.591E-05 | -7.279E-06 | 1.508E-05 1.115E-01 -8.037E-04 -4.020E-01 1.624E-06 -7.022E-05 2.498E+01 -1.017E-07 3.177E-04 -7.241E-10 1.137E-07 -1.419E-07 -1.604E-08 -3.905E-05 -1.590E-06 -3.597E-02 -1.986E-10 -2.136E-07 5.302E-02 2.371E-09 2.276E-06 -5.208E-09 2.180E-09 2.341E-09 | -2.788E-08 | -2.910E-10

-3.108E-04 | 8.110E-04 | -9.733E-02 4.363E-02 8.175E+02 1.083E+00 -1.354E+01 2.475E-01 -2.440E+01 2.502E-01 5.743E+01 6.371E-01 1.402E-01 8.746E-01 6.530E-02 -6.502E+00 -1.314E+01 -4.606E+00 -3.208E-01 -9.984E-02 -4.662E+00 -7.553E-01 -3.458E-01 5.855E-03 1.379E-02 -1.833E-02 | -2.727E+00 | 6.575E-02

-8.013E-04 | 1.473E-04 | 5.401E-03 1.074E+02 -1.069E+01 1.185E-01 1.714E-01 -7.844E+00 1.602E+02 -1.892E-01 7.121E+01 2.970E-02 2.613E-01 -3.026E-01 -1.102E-03 -1.193E+00 -2.356E+00 -7.182E-01 -6.427E-02 -3.996E-02 -3.801E-01 1.907E-02 5.305E-01 -1.502E-02 1.302E-02 1.968E-03 | 6.693E-02 | -7.083E-04

4.717E-05 | 1.359E-06 | -3.616E-05 -3.227E-01 -2.782E-01 5.082E-01 -1.655E-02 5.264E-02 -4.668E+02 -2.092E-02 -4.109E+00 1.478E-01 -6.023E-02 -8.564E-02 1.299E-03 -7.614E-01 1.804E+00 -2.839E+00 4.698E-02 -1.471E-02 -3.866E+00 -2.986E-02 -5.915E-02 -5.854E-03 4.333E-03 1.662E-03 | -1.743E-01 | -1.603E-03

6.158E-05 | 1.267E+00 | -1.281E-06 -2.411E-02 2.944E-03 2.817E-05 -7.629E-05 2.492E-03 -4.489E-01 6.574E-05 1.726E+02 1.184E-04 -1.421E-04 2.133E-05 1.537E-06 -2.331E-04 2.387E-03 -2.348E-03 6.350E-05 -8.192E-07 -3.301E-03 -3.586E-05 1.236E+00 -4.794E-07 -4.794E-07 4.794E-07 | -4.269E-05 | -8.941E-07

-9.321E-06 | 4.667E-07 | -3.927E-05 -2.314E+00 -6.939E-01 3.567E-03 1.366E-01 2.380E-01 -4.254E+01 1.130E-03 -2.411E+02 -3.935E-01 -4.117E-01 -4.053E-01 -1.161E-01 -1.626E+00 -9.916E+00 -4.965E-02 -1.126E-01 -5.140E-02 -1.407E-01 -1.638E+00 -3.365E+00 -5.199E-03 -5.344E-03 -4.805E-03 | -7.121E+00 | 1.167E-01

6.461E-01 | 9.948E-02 | 1.815E-02 -1.402E+00 -1.785E+02 -5.351E+00 1.955E+01 1.128E+00 2.023E+04 4.395E+00 -4.955E+03 -8.605E+01 -2.822E+01 -2.798E+01 -1.064E+01 -1.106E+02 -8.709E+02 7.837E+01 -9.344E+00 -4.103E+00 1.213E+02 -1.468E+02 -1.823E+02 -4.535E-01 -6.214E-01 -4.366E-01 | -6.437E+02 | 1.064E+01

-4.226E-01 | 3.956E-01 | -6.164E-02 -7.507E+00 5.222E+02 -5.967E+00 4.010E+00 1.111E+01 -8.490E+03 1.404E+01 -5.183E+03 -2.812E+01 -7.968E+01 -3.207E+01 -1.045E+01 -1.084E+02 -8.988E+02 1.041E+02 -1.017E+01 -4.030E+00 8.603E+01 -1.479E+02 -1.851E+02 -4.809E-01 -6.561E-01 -3.523E-01 | -6.617E+02 | 1.056E+01

-2.240E-01 | -4.946E-01 | 7.283E-02 9.568E+00 -6.756E+02 1.035E+01 2.720E+01 -1.288E+01 -1.151E+04 -1.932E+01 -5.151E+03 -2.814E+01 -3.207E+01 -8.266E+01 -1.048E+01 -2.078E+02 -9.744E+02 -1.360E+02 -1.239E+01 -5.651E+00 -1.605E+02 -1.460E+02 -1.828E+02 -5.894E-01 -2.826E-01 -6.170E-01 | -6.555E+02 | 1.039E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.286E+02 | | 7.710E+00 2.304E+05 -1.274E+03 -9.709E+02 -4.464E+01 2.566E+05 -1.484E+06 3.052E+02 -1.554E+06 -8.161E+01 -4.019E+02 4.997E+02 -1.565E+00 4.019E+03 3.497E+03 1.849E+03 9.642E+01 6.371E+02 -1.296E+03 -2.336E+01 -1.116E+04 2.535E+01 -2.204E+01 -3.281E+00 | -6.655E+01 | 1.396E+00

2.720E+03 | | -2.324E+02 1.269E+03 2.200E+06 -8.492E+03 1.606E+05 -1.322E+03 6.087E+04 -2.014E+03 -2.806E+04 -7.996E+02 2.760E+03 -3.060E+03 4.148E+02 4.605E+04 6.684E+04 3.770E+04 2.223E+03 6.172E+02 3.786E+04 3.541E+02 1.676E+02 -3.922E+01 -9.907E+01 1.384E+02 | 1.740E+03 | -5.044E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 110.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-1.406E-03 | 2.761E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.432E-05 | -6.829E-06 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-5.363E-06 | 1.580E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.021E-05 | -5.379E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

6.352E-04 | 7.000E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

5.469E-05 | -6.689E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

3.612E-06 | -8.652E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 3.491E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-8.364E-07 | 3.154E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.864E-01 | -3.549E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

3.320E-01 | 3.485E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-5.180E-01 | 1.001E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-1.534E-05 | -1.406E-03 | 1.784E-02 7.776E-02 -2.148E+02 -1.712E-01 2.415E+00 -4.726E-02 1.126E+00 -3.904E-02 -6.148E-01 -6.077E-03 4.616E-02 -6.759E-02 -3.910E-02 9.047E-01 1.390E+00 7.319E-01 4.141E-02 1.211E-02 7.351E-01 1.004E-02 5.912E-03 -1.208E-03 -1.554E-03 2.769E-03 | 4.253E-02 | -1.276E-03

-5.210E-06 | 1.432E-05 | -4.701E-05 -1.105E+00 -3.840E-04 2.338E-03 3.809E-05 1.194E-02 -6.634E-02 1.372E-05 -7.233E-02 -7.981E-06 -1.510E-05 2.356E-05 2.223E-08 -5.971E-03 1.733E-04 8.794E-05 5.031E-06 2.980E-05 -4.523E-05 -1.007E-06 -5.192E-04 1.055E-06 -1.163E-06 1.096E-07 | -3.282E-06 | 5.497E-08

1.794E-05 | -5.363E-06 | 9.072E-04 3.020E-03 -6.747E+00 -5.004E-03 7.197E-02 -1.388E-03 3.273E-02 -1.136E-03 -1.733E-02 -1.716E-04 1.348E-03 -1.962E-03 -9.713E-04 2.633E-02 3.406E-02 2.129E-02 1.209E-03 3.521E-04 2.139E-02 2.851E-04 1.690E-04 -3.515E-05 -4.521E-05 8.055E-05 | 1.213E-03 | -3.656E-05

-1.546E-05 | -1.021E-05 | 1.612E-05 1.114E-01 -7.811E-04 -4.020E-01 1.440E-06 -7.014E-05 2.498E+01 -1.067E-07 3.177E-04 2.978E-08 1.057E-07 -1.434E-07 -1.113E-08 -3.892E-05 -1.154E-06 -3.597E-02 -4.355E-09 -2.153E-07 5.302E-02 1.691E-08 2.295E-06 -5.186E-09 3.511E-09 1.777E-09 | 2.501E-08 | -7.822E-10

-2.245E-03 | 6.352E-04 | -9.732E-02 4.294E-02 8.174E+02 1.100E+00 -1.354E+01 2.477E-01 -2.266E+01 2.499E-01 5.744E+01 5.612E-01 1.713E-01 9.193E-01 6.547E-02 -6.555E+00 -1.318E+01 -4.615E+00 -3.209E-01 -1.004E-01 -4.668E+00 -7.560E-01 -3.464E-01 8.923E-03 1.120E-02 -1.886E-02 | -2.714E+00 | 6.599E-02

-5.247E-04 | 5.469E-05 | 5.403E-03 1.074E+02 -1.070E+01 1.188E-01 1.718E-01 -7.845E+00 1.605E+02 -1.896E-01 7.121E+01 8.554E-02 2.242E-01 -3.214E-01 -9.782E-04 -1.212E+00 -2.366E+00 -7.178E-01 -6.409E-02 -3.996E-02 -3.790E-01 1.932E-02 5.308E-01 -1.364E-02 1.452E-02 -9.170E-04 | 7.422E-02 | -7.687E-04

-1.528E-05 | 3.612E-06 | -3.491E-05 -3.228E-01 -2.961E-01 5.043E-01 -1.609E-02 5.271E-02 -4.673E+02 -2.028E-02 -4.115E+00 1.485E-01 -8.283E-02 -6.379E-02 1.285E-03 -7.439E-01 1.810E+00 -2.830E+00 4.684E-02 -1.450E-02 -3.858E+00 -3.053E-02 -5.986E-02 -5.494E-03 5.043E-03 5.885E-04 | -1.732E-01 | -1.527E-03

5.361E-05 | 1.267E+00 | -1.195E-06 -2.415E-02 2.916E-03 2.220E-05 -6.575E-05 2.501E-03 -4.494E-01 6.574E-05 1.726E+02 1.138E-04 -1.524E-04 5.465E-05 1.451E-06 -2.066E-04 2.406E-03 -2.341E-03 6.373E-05 -8.192E-07 -3.291E-03 -2.903E-05 1.236E+00 0.000E+00 -9.587E-07 2.397E-07 | -1.793E-04 | -8.941E-07

1.212E-06 | -8.364E-07 | -3.902E-05 -2.314E+00 -6.951E-01 2.846E-03 1.366E-01 2.380E-01 -4.261E+01 1.250E-03 -2.411E+02 -3.943E-01 -4.128E-01 -4.035E-01 -1.160E-01 -1.623E+00 -9.920E+00 -4.938E-02 -1.124E-01 -5.133E-02 -1.405E-01 -1.637E+00 -3.364E+00 -5.250E-03 -5.290E-03 -4.809E-03 | -7.119E+00 | 1.166E-01

6.149E-01 | 1.864E-01 | 4.409E-03 -3.075E+00 -5.633E+01 -7.017E+00 1.716E+01 3.499E+00 2.024E+04 7.649E+00 -4.960E+03 -8.596E+01 -2.722E+01 -2.876E+01 -1.063E+01 -1.004E+02 -8.632E+02 1.015E+02 -9.090E+00 -3.938E+00 1.444E+02 -1.469E+02 -1.825E+02 -4.693E-01 -6.530E-01 -3.888E-01 | -6.444E+02 | 1.065E+01

-4.990E-01 | 3.320E-01 | -5.502E-02 -6.305E+00 4.621E+02 -4.296E+00 4.978E+00 9.563E+00 -1.155E+04 1.149E+01 -5.201E+03 -2.713E+01 -8.056E+01 -3.227E+01 -1.042E+01 -1.187E+02 -9.101E+02 8.022E+01 -1.048E+01 -4.193E+00 5.567E+01 -1.477E+02 -1.851E+02 -5.204E-01 -6.030E-01 -3.635E-01 | -6.627E+02 | 1.052E+01

-1.154E-01 | -5.180E-01 | 7.994E-02 1.005E+01 -7.376E+02 1.024E+01 2.862E+01 -1.371E+01 -8.469E+03 -2.001E+01 -5.127E+03 -2.893E+01 -3.226E+01 -8.190E+01 -1.049E+01 -2.071E+02 -9.722E+02 -1.353E+02 -1.228E+01 -5.641E+00 -1.534E+02 -1.459E+02 -1.825E+02 -5.482E-01 -2.891E-01 -6.549E-01 | -6.534E+02 | 1.039E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.255E+02 | | 7.698E+00 2.304E+05 -1.265E+03 -9.775E+02 -4.532E+01 2.566E+05 -1.484E+06 3.055E+02 -1.554E+06 -1.705E+02 -3.378E+02 5.246E+02 -1.750E+00 4.046E+03 3.511E+03 1.846E+03 9.614E+01 6.371E+02 -1.299E+03 -2.364E+01 -1.116E+04 2.301E+01 -2.457E+01 1.609E+00 | -7.658E+01 | 1.454E+00

2.729E+03 | | -2.324E+02 1.272E+03 2.200E+06 -8.524E+03 1.606E+05 -1.324E+03 4.712E+04 -2.010E+03 -2.812E+04 -2.020E+02 2.478E+03 -3.374E+03 4.138E+02 4.647E+04 6.720E+04 3.775E+04 2.225E+03 6.219E+02 3.788E+04 3.677E+02 1.805E+02 -6.189E+01 -7.997E+01 1.424E+02 | 1.664E+03 | -5.328E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 120.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-1.395E-03 | 2.759E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.340E-05 | -4.915E-06 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.468E-06 | 1.575E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.142E-05 | -5.380E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.766E-04 | 7.063E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.242E-05 | -6.644E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

3.860E-06 | -8.602E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 5.236E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.853E-08 | 2.445E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.677E-01 | -3.235E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.585E-01 | 3.893E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-5.258E-01 | 2.806E-02 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

1.162E-04 | -1.395E-03 | 1.784E-02 7.671E-02 -2.148E+02 -1.730E-01 2.415E+00 -4.728E-02 7.884E-01 -3.881E-02 -6.171E-01 5.474E-03 3.897E-02 -7.194E-02 -3.909E-02 9.153E-01 1.396E+00 7.338E-01 4.147E-02 1.227E-02 7.362E-01 9.875E-03 5.733E-03 -1.612E-03 -1.132E-03 2.759E-03 | 4.253E-02 | -1.319E-03

-8.422E-06 | 1.340E-05 | -4.703E-05 -1.105E+00 -3.757E-04 2.340E-03 3.807E-05 1.194E-02 -6.638E-02 1.377E-05 -7.233E-02 -1.171E-05 -1.172E-05 2.392E-05 2.722E-08 -5.969E-03 1.734E-04 8.984E-05 5.039E-06 2.983E-05 -4.536E-05 -1.036E-06 -5.193E-04 9.097E-07 -1.241E-06 3.342E-07 | -3.208E-06 | 4.865E-08

2.200E-05 | -2.468E-06 | 9.072E-04 2.979E-03 -6.747E+00 -5.058E-03 7.197E-02 -1.388E-03 2.289E-02 -1.129E-03 -1.740E-02 1.645E-04 1.139E-03 -2.088E-03 -9.711E-04 2.663E-02 3.426E-02 2.134E-02 1.211E-03 3.567E-04 2.142E-02 2.804E-04 1.639E-04 -4.690E-05 -3.292E-05 8.027E-05 | 1.213E-03 | -3.780E-05

-1.884E-06 | -1.142E-05 | 1.731E-05 1.113E-01 -7.865E-04 -4.020E-01 1.271E-06 -7.010E-05 2.498E+01 -1.003E-07 3.178E-04 6.147E-08 7.662E-08 -1.435E-07 -7.362E-09 -3.888E-05 -8.617E-07 -3.597E-02 -7.742E-09 -2.192E-07 5.302E-02 9.834E-09 2.288E-06 -4.516E-09 3.858E-09 5.074E-11 | 4.045E-07 | -1.439E-09

-2.713E-03 | 2.766E-04 | -9.732E-02 4.642E-02 8.174E+02 1.110E+00 -1.354E+01 2.479E-01 -2.047E+01 2.483E-01 5.745E+01 4.848E-01 2.142E-01 9.528E-01 6.548E-02 -6.627E+00 -1.323E+01 -4.630E+00 -3.213E-01 -1.014E-01 -4.678E+00 -7.534E-01 -3.437E-01 1.173E-02 8.254E-03 -1.879E-02 | -2.714E+00 | 6.627E-02

7.422E-05 | 2.242E-05 | 5.405E-03 1.074E+02 -1.070E+01 1.206E-01 1.720E-01 -7.845E+00 1.608E+02 -1.903E-01 7.122E+01 1.386E-01 1.802E-01 -3.305E-01 -1.040E-03 -1.236E+00 -2.375E+00 -7.184E-01 -6.414E-02 -4.032E-02 -3.782E-01 1.978E-02 5.313E-01 -1.186E-02 1.558E-02 -3.774E-03 | 7.509E-02 | -7.075E-04

2.118E-05 | 3.860E-06 | -3.320E-05 -3.228E-01 -3.172E-01 5.020E-01 -1.545E-02 5.281E-02 -4.674E+02 -1.987E-02 -4.119E+00 1.446E-01 -1.028E-01 -3.993E-02 1.263E-03 -7.383E-01 1.805E+00 -2.823E+00 4.661E-02 -1.446E-02 -3.851E+00 -3.109E-02 -6.046E-02 -4.966E-03 5.593E-03 -5.055E-04 | -1.744E-01 | -1.427E-03

4.225E-05 | 1.267E+00 | -1.195E-06 -2.411E-02 2.885E-03 1.964E-05 -7.136E-05 2.503E-03 -4.496E-01 5.293E-05 1.726E+02 8.988E-05 -1.529E-04 7.071E-05 1.537E-06 -1.955E-04 2.408E-03 -2.333E-03 6.328E-05 0.000E+00 -3.285E-03 -3.671E-05 1.236E+00 0.000E+00 2.397E-07 9.587E-07 | 1.708E-05 | -1.192E-06

3.865E-06 | -2.853E-08 | -3.902E-05 -2.314E+00 -6.967E-01 2.077E-03 1.367E-01 2.380E-01 -4.266E+01 1.257E-03 -2.411E+02 -3.953E-01 -4.136E-01 -4.016E-01 -1.160E-01 -1.622E+00 -9.922E+00 -4.845E-02 -1.124E-01 -5.134E-02 -1.397E-01 -1.636E+00 -3.363E+00 -5.296E-03 -5.229E-03 -4.825E-03 | -7.115E+00 | 1.165E-01

5.618E-01 | 2.677E-01 | -9.191E-03 -4.644E+00 6.431E+01 -8.558E+00 1.475E+01 5.753E+00 1.963E+04 1.066E+01 -4.970E+03 -8.550E+01 -2.645E+01 -2.967E+01 -1.062E+01 -9.131E+01 -8.566E+02 1.223E+02 -8.891E+00 -3.791E+00 1.639E+02 -1.470E+02 -1.827E+02 -4.998E-01 -6.699E-01 -3.399E-01 | -6.451E+02 | 1.065E+01

-5.665E-01 | 2.585E-01 | -4.638E-02 -4.906E+00 3.843E+02 -2.555E+00 6.319E+00 7.717E+00 -1.425E+04 8.577E+00 -5.217E+03 -2.636E+01 -8.161E+01 -3.213E+01 -1.041E+01 -1.299E+02 -9.212E+02 5.449E+01 -1.080E+01 -4.374E+00 2.420E+01 -1.475E+02 -1.849E+02 -5.462E-01 -5.473E-01 -3.915E-01 | -6.631E+02 | 1.049E+01

2.234E-03 | -5.258E-01 | 8.489E-02 1.022E+01 -7.804E+02 9.903E+00 2.968E+01 -1.412E+01 -5.160E+03 -2.013E+01 -5.103E+03 -2.985E+01 -3.210E+01 -8.132E+01 -1.051E+01 -2.052E+02 -9.682E+02 -1.303E+02 -1.214E+01 -5.613E+00 -1.413E+02 -1.457E+02 -1.821E+02 -5.046E-01 -3.105E-01 -6.802E-01 | -6.512E+02 | 1.040E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.246E+02 | | 7.707E+00 2.304E+05 -1.262E+03 -9.846E+02 -4.608E+01 2.566E+05 -1.485E+06 3.065E+02 -1.554E+06 -2.539E+02 -2.633E+02 5.335E+02 -1.648E+00 4.085E+03 3.527E+03 1.844E+03 9.632E+01 6.376E+02 -1.302E+03 -2.422E+01 -1.116E+04 1.999E+01 -2.637E+01 6.416E+00 | -7.845E+01 | 1.348E+00

2.735E+03 | | -2.324E+02 1.283E+03 2.200E+06 -8.594E+03 1.606E+05 -1.324E+03 2.978E+04 -1.998E+03 -2.824E+04 3.923E+02 2.107E+03 -3.597E+03 4.141E+02 4.701E+04 6.754E+04 3.784E+04 2.228E+03 6.300E+02 3.794E+04 3.596E+02 1.716E+02 -8.266E+01 -5.826E+01 1.420E+02 | 1.663E+03 | -5.548E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 130.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-1.366E-03 | 2.757E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.212E-05 | -3.154E-06 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

9.634E-07 | 1.573E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.065E-05 | -5.382E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.589E-04 | 7.073E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

5.050E-05 | -6.599E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

3.791E-06 | -8.545E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 6.981E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-3.719E-07 | 2.423E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

3.408E-01 | -2.815E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.768E-01 | 4.193E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-5.177E-01 | -4.398E-02 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

1.806E-04 | -1.366E-03 | 1.784E-02 7.668E-02 -2.148E+02 -1.730E-01 2.415E+00 -4.727E-02 4.722E-01 -3.862E-02 -6.199E-01 1.657E-02 3.029E-02 -7.438E-02 -3.909E-02 9.260E-01 1.401E+00 7.366E-01 4.146E-02 1.229E-02 7.384E-01 9.642E-03 5.478E-03 -1.963E-03 -6.744E-04 2.640E-03 | 4.163E-02 | -1.232E-03

-1.043E-05 | 1.212E-05 | -4.704E-05 -1.105E+00 -3.613E-04 2.327E-03 3.806E-05 1.194E-02 -6.641E-02 1.382E-05 -7.233E-02 -1.509E-05 -7.995E-06 2.356E-05 3.158E-08 -5.967E-03 1.746E-04 9.224E-05 5.049E-06 2.984E-05 -4.533E-05 -1.037E-06 -5.193E-04 7.376E-07 -1.281E-06 5.453E-07 | -3.163E-06 | 5.137E-08

2.383E-05 | 9.634E-07 | 9.072E-04 2.969E-03 -6.747E+00 -5.053E-03 7.197E-02 -1.388E-03 1.366E-02 -1.124E-03 -1.748E-02 4.873E-04 8.861E-04 -2.159E-03 -9.712E-04 2.695E-02 3.439E-02 2.143E-02 1.211E-03 3.574E-04 2.149E-02 2.737E-04 1.565E-04 -5.710E-05 -1.962E-05 7.680E-05 | 1.187E-03 | -3.526E-05

1.301E-05 | -1.065E-05 | 1.820E-05 1.112E-01 -7.915E-04 -4.020E-01 1.110E-06 -7.012E-05 2.498E+01 -7.664E-08 3.180E-04 7.200E-08 4.482E-08 -1.413E-07 -4.267E-09 -3.894E-05 -6.015E-07 -3.597E-02 -1.189E-08 -2.203E-07 5.302E-02 4.117E-09 2.282E-06 -4.074E-09 4.853E-09 -7.607E-10 | -1.911E-07 | -9.231E-10

-3.108E-03 | -1.589E-04 | -9.732E-02 4.608E-02 8.175E+02 1.114E+00 -1.354E+01 2.478E-01 -1.842E+01 2.471E-01 5.747E+01 4.104E-01 2.674E-01 9.741E-01 6.560E-02 -6.698E+00 -1.326E+01 -4.650E+00 -3.210E-01 -1.014E-01 -4.694E+00 -7.506E-01 -3.407E-01 1.417E-02 5.071E-03 -1.795E-02 | -2.702E+00 | 6.550E-02

3.297E-04 | 5.050E-05 | 5.406E-03 1.074E+02 -1.070E+01 1.254E-01 1.720E-01 -7.845E+00 1.611E+02 -1.907E-01 7.122E+01 1.874E-01 1.306E-01 -3.296E-01 -1.095E-03 -1.261E+00 -2.382E+00 -7.209E-01 -6.424E-02 -4.054E-02 -3.793E-01 1.976E-02 5.313E-01 -9.728E-03 1.617E-02 -6.483E-03 | 7.321E-02 | -7.240E-04

-2.512E-05 | 3.791E-06 | -3.140E-05 -3.229E-01 -3.360E-01 5.022E-01 -1.481E-02 5.291E-02 -4.671E+02 -1.984E-02 -4.120E+00 1.361E-01 -1.195E-01 -1.479E-02 1.222E-03 -7.441E-01 1.793E+00 -2.815E+00 4.632E-02 -1.450E-02 -3.843E+00 -3.144E-02 -6.081E-02 -4.279E-03 5.973E-03 -1.568E-03 | -1.768E-01 | -1.393E-03

4.137E-05 | 1.267E+00 | -1.451E-06 -2.414E-02 2.878E-03 1.451E-05 -6.395E-05 2.502E-03 -4.494E-01 3.757E-05 1.726E+02 6.879E-05 -1.491E-04 9.419E-05 1.110E-06 -1.912E-04 2.387E-03 -2.324E-03 6.260E-05 0.000E+00 -3.278E-03 -3.842E-05 1.236E+00 -7.190E-07 0.000E+00 7.190E-07 | 8.538E-05 | -8.941E-07

-6.689E-06 | -3.719E-07 | -3.868E-05 -2.314E+00 -6.983E-01 1.691E-03 1.368E-01 2.380E-01 -4.267E+01 1.331E-03 -2.411E+02 -3.966E-01 -4.141E-01 -3.999E-01 -1.160E-01 -1.624E+00 -9.920E+00 -4.575E-02 -1.123E-01 -5.113E-02 -1.369E-01 -1.634E+00 -3.362E+00 -5.323E-03 -5.167E-03 -4.803E-03 | -7.109E+00 | 1.162E-01

4.987E-01 | 3.408E-01 | -2.218E-02 -6.066E+00 1.794E+02 -9.928E+00 1.242E+01 7.824E+00 1.840E+04 1.336E+01 -4.983E+03 -8.472E+01 -2.599E+01 -3.060E+01 -1.060E+01 -8.336E+01 -8.513E+02 1.402E+02 -8.744E+00 -3.649E+00 1.792E+02 -1.471E+02 -1.829E+02 -5.409E-01 -6.702E-01 -2.931E-01 | -6.459E+02 | 1.063E+01

-6.176E-01 | 1.768E-01 | -3.601E-02 -3.357E+00 2.913E+02 -7.201E-01 7.992E+00 5.629E+00 -1.650E+04 5.394E+00 -5.228E+03 -2.591E+01 -8.271E+01 -3.166E+01 -1.040E+01 -1.417E+02 -9.318E+02 2.781E+01 -1.111E+01 -4.544E+00 -7.260E+00 -1.473E+02 -1.848E+02 -5.544E-01 -4.954E-01 -4.289E-01 | -6.631E+02 | 1.044E+01

1.148E-01 | -5.177E-01 | 8.753E-02 1.009E+01 -8.026E+02 9.338E+00 3.035E+01 -1.410E+01 -1.686E+03 -1.963E+01 -5.078E+03 -3.079E+01 -3.162E+01 -8.099E+01 -1.053E+01 -2.017E+02 -9.621E+02 -1.210E+02 -1.195E+01 -5.528E+00 -1.246E+02 -1.456E+02 -1.818E+02 -4.635E-01 -3.442E-01 -6.843E-01 | -6.489E+02 | 1.039E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.240E+02 | | 7.715E+00 2.304E+05 -1.265E+03 -9.899E+02 -4.644E+01 2.566E+05 -1.485E+06 3.075E+02 -1.554E+06 -3.294E+02 -1.808E+02 5.265E+02 -1.552E+00 4.127E+03 3.541E+03 1.846E+03 9.651E+01 6.380E+02 -1.302E+03 -2.413E+01 -1.116E+04 1.640E+01 -2.735E+01 1.098E+01 | -7.617E+01 | 1.386E+00

2.737E+03 | | -2.324E+02 1.282E+03 2.200E+06 -8.697E+03 1.606E+05 -1.324E+03 1.354E+04 -1.988E+03 -2.839E+04 9.629E+02 1.660E+03 -3.722E+03 4.141E+02 4.756E+04 6.777E+04 3.799E+04 2.227E+03 6.312E+02 3.805E+04 3.479E+02 1.588E+02 -1.007E+02 -3.475E+01 1.359E+02 | 1.619E+03 | -5.101E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 140.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-1.348E-03 | 2.755E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.051E-05 | -1.593E-06 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

4.036E-06 | 1.577E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-8.048E-06 | -5.383E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-5.506E-04 | 7.023E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.200E-04 | -6.485E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.722E-06 | -8.503E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 8.727E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.388E-06 | 2.712E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

4.042E-01 | -2.301E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

8.947E-02 | 4.377E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.936E-01 | -1.138E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

7.340E-05 | -1.348E-03 | 1.784E-02 7.557E-02 -2.148E+02 -1.745E-01 2.416E+00 -4.724E-02 2.625E-01 -3.847E-02 -6.226E-01 2.684E-02 2.044E-02 -7.483E-02 -3.910E-02 9.347E-01 1.403E+00 7.404E-01 4.137E-02 1.227E-02 7.417E-01 9.544E-03 5.357E-03 -2.255E-03 -1.966E-04 2.439E-03 | 4.019E-02 | -1.148E-03

-1.278E-05 | 1.051E-05 | -4.705E-05 -1.105E+00 -3.666E-04 2.326E-03 3.809E-05 1.194E-02 -6.643E-02 1.380E-05 -7.233E-02 -1.799E-05 -4.017E-06 2.249E-05 3.194E-08 -5.965E-03 1.769E-04 9.455E-05 5.047E-06 2.984E-05 -4.511E-05 -1.022E-06 -5.193E-04 5.430E-07 -1.283E-06 7.397E-07 | -3.218E-06 | 5.562E-08

2.054E-05 | 4.036E-06 | 9.072E-04 2.928E-03 -6.748E+00 -5.098E-03 7.197E-02 -1.387E-03 7.529E-03 -1.119E-03 -1.756E-02 7.861E-04 5.994E-04 -2.172E-03 -9.713E-04 2.720E-02 3.445E-02 2.154E-02 1.208E-03 3.567E-04 2.158E-02 2.708E-04 1.529E-04 -6.561E-05 -5.716E-06 7.096E-05 | 1.145E-03 | -3.282E-05

2.417E-05 | -8.048E-06 | 1.909E-05 1.111E-01 -7.790E-04 -4.020E-01 9.441E-07 -7.013E-05 2.498E+01 -4.885E-08 3.177E-04 8.715E-08 3.713E-08 -1.282E-07 -2.032E-10 -3.911E-05 -2.853E-07 -3.597E-02 -1.320E-08 -2.213E-07 5.302E-02 1.021E-08 2.287E-06 -3.292E-09 6.056E-09 -1.960E-09 | -1.120E-07 | -5.548E-10

-2.541E-03 | -5.506E-04 | -9.733E-02 5.001E-02 8.175E+02 1.123E+00 -1.354E+01 2.476E-01 -1.706E+01 2.463E-01 5.749E+01 3.406E-01 3.290E-01 9.824E-01 6.570E-02 -6.755E+00 -1.327E+01 -4.675E+00 -3.204E-01 -1.012E-01 -4.716E+00 -7.490E-01 -3.390E-01 1.620E-02 1.742E-03 -1.654E-02 | -2.688E+00 | 6.476E-02

6.489E-04 | 1.200E-04 | 5.406E-03 1.074E+02 -1.069E+01 1.301E-01 1.718E-01 -7.844E+00 1.613E+02 -1.904E-01 7.122E+01 2.303E-01 7.686E-02 -3.189E-01 -1.098E-03 -1.281E+00 -2.385E+00 -7.246E-01 -6.419E-02 -4.049E-02 -3.818E-01 1.961E-02 5.311E-01 -7.303E-03 1.628E-02 -8.994E-03 | 7.262E-02 | -7.526E-04

3.894E-06 | 2.722E-06 | -3.049E-05 -3.229E-01 -3.471E-01 5.047E-01 -1.436E-02 5.298E-02 -4.665E+02 -1.996E-02 -4.117E+00 1.234E-01 -1.324E-01 1.080E-02 1.200E-03 -7.611E-01 1.775E+00 -2.813E+00 4.608E-02 -1.459E-02 -3.839E+00 -3.198E-02 -6.132E-02 -3.470E-03 6.173E-03 -2.558E-03 | -1.736E-01 | -1.481E-03

4.848E-05 | 1.267E+00 | -1.281E-06 -2.412E-02 2.835E-03 3.159E-05 -7.427E-05 2.493E-03 -4.490E-01 1.110E-05 1.726E+02 3.547E-05 -1.421E-04 1.170E-04 1.622E-06 -2.015E-04 2.385E-03 -2.321E-03 6.260E-05 5.461E-07 -3.275E-03 -3.330E-05 1.236E+00 -7.190E-07 7.190E-07 2.397E-07 | 1.025E-04 | -1.788E-06

1.232E-05 | 1.388E-06 | -3.842E-05 -2.314E+00 -6.995E-01 1.838E-03 1.369E-01 2.380E-01 -4.263E+01 1.433E-03 -2.411E+02 -3.981E-01 -4.142E-01 -3.982E-01 -1.159E-01 -1.626E+00 -9.909E+00 -4.484E-02 -1.122E-01 -5.090E-02 -1.360E-01 -1.634E+00 -3.362E+00 -5.353E-03 -5.108E-03 -4.784E-03 | -7.105E+00 | 1.158E-01

4.180E-01 | 4.042E-01 | -3.414E-02 -7.302E+00 2.853E+02 -1.103E+01 1.024E+01 9.651E+00 1.660E+04 1.565E+01 -5.000E+03 -8.369E+01 -2.590E+01 -3.141E+01 -1.058E+01 -7.695E+01 -8.470E+02 1.545E+02 -8.660E+00 -3.532E+00 1.898E+02 -1.473E+02 -1.832E+02 -5.889E-01 -6.536E-01 -2.571E-01 | -6.474E+02 | 1.061E+01

-6.478E-01 | 8.947E-02 | -2.426E-02 -1.700E+00 1.863E+02 1.207E+00 9.936E+00 3.360E+00 -1.823E+04 2.035E+00 -5.236E+03 -2.582E+01 -8.374E+01 -3.096E+01 -1.039E+01 -1.537E+02 -9.409E+02 6.786E-01 -1.139E+01 -4.711E+00 -3.808E+01 -1.471E+02 -1.846E+02 -5.464E-01 -4.533E-01 -4.735E-01 | -6.630E+02 | 1.038E+01

2.340E-01 | -4.936E-01 | 8.777E-02 9.658E+00 -8.035E+02 8.488E+00 3.060E+01 -1.366E+01 1.838E+03 -1.853E+01 -5.054E+03 -3.162E+01 -3.089E+01 -8.096E+01 -1.055E+01 -1.962E+02 -9.535E+02 -1.079E+02 -1.171E+01 -5.412E+00 -1.041E+02 -1.456E+02 -1.816E+02 -4.317E-01 -3.857E-01 -6.719E-01 | -6.468E+02 | 1.037E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.214E+02 | | 7.715E+00 2.304E+05 -1.273E+03 -9.944E+02 -4.616E+01 2.566E+05 -1.486E+06 3.072E+02 -1.554E+06 -3.946E+02 -9.260E+01 5.034E+02 -1.550E+00 4.162E+03 3.552E+03 1.850E+03 9.651E+01 6.380E+02 -1.299E+03 -2.384E+01 -1.116E+04 1.227E+01 -2.753E+01 1.523E+01 | -7.978E+01 | 1.428E+00

2.731E+03 | | -2.324E+02 1.290E+03 2.199E+06 -8.765E+03 1.606E+05 -1.322E+03 2.764E+03 -1.980E+03 -2.853E+04 1.491E+03 1.153E+03 -3.744E+03 4.139E+02 4.801E+04 6.788E+04 3.818E+04 2.223E+03 6.301E+02 3.822E+04 3.431E+02 1.527E+02 -1.158E+02 -1.019E+01 1.256E+02 | 1.546E+03 | -4.673E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 150.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-1.356E-03 | 2.753E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

8.629E-06 | -2.719E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

6.287E-06 | 1.584E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.127E-06 | -5.384E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-8.204E-04 | 6.926E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.147E-04 | -6.256E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

8.648E-07 | -8.475E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 1.047E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.333E-07 | 4.229E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

4.554E-01 | -1.708E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.051E-03 | 4.438E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.540E-01 | -1.792E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-2.916E-04 | -1.356E-03 | 1.784E-02 7.549E-02 -2.149E+02 -1.754E-01 2.416E+00 -4.720E-02 2.152E-01 -3.829E-02 -6.242E-01 3.596E-02 9.747E-03 -7.328E-02 -3.910E-02 9.381E-01 1.400E+00 7.429E-01 4.123E-02 1.232E-02 7.441E-01 9.466E-03 5.270E-03 -2.477E-03 2.860E-04 2.186E-03 | 4.057E-02 | -1.169E-03

-1.459E-05 | 8.629E-06 | -4.706E-05 -1.105E+00 -3.572E-04 2.325E-03 3.812E-05 1.194E-02 -6.643E-02 1.377E-05 -7.233E-02 -2.035E-05 1.019E-07 2.073E-05 3.257E-08 -5.964E-03 1.794E-04 9.629E-05 5.036E-06 2.985E-05 -4.486E-05 -9.785E-07 -5.192E-04 3.335E-07 -1.247E-06 9.140E-07 | -3.125E-06 | 5.554E-08

9.161E-06 | 6.287E-06 | 9.073E-04 2.921E-03 -6.748E+00 -5.125E-03 7.198E-02 -1.386E-03 6.132E-03 -1.114E-03 -1.761E-02 1.051E-03 2.883E-04 -2.127E-03 -9.715E-04 2.729E-02 3.436E-02 2.161E-02 1.204E-03 3.582E-04 2.165E-02 2.685E-04 1.504E-04 -7.206E-05 8.323E-06 6.361E-05 | 1.156E-03 | -3.344E-05

3.158E-05 | -4.127E-06 | 1.968E-05 1.111E-01 -8.009E-04 -4.020E-01 7.731E-07 -7.016E-05 2.498E+01 -5.836E-08 3.179E-04 1.005E-07 8.704E-09 -1.128E-07 2.043E-09 -3.936E-05 -1.440E-07 -3.597E-02 -1.719E-08 -2.209E-07 5.302E-02 5.263E-09 2.283E-06 -2.516E-09 5.486E-09 -3.043E-09 | -8.025E-08 | -1.201E-09

-9.940E-04 | -8.204E-04 | -9.734E-02 5.025E-02 8.176E+02 1.128E+00 -1.355E+01 2.473E-01 -1.676E+01 2.451E-01 5.750E+01 2.776E-01 3.971E-01 9.776E-01 6.577E-02 -6.777E+00 -1.325E+01 -4.692E+00 -3.194E-01 -1.015E-01 -4.732E+00 -7.485E-01 -3.384E-01 1.774E-02 -1.618E-03 -1.477E-02 | -2.689E+00 | 6.486E-02

6.924E-04 | 2.147E-04 | 5.406E-03 1.074E+02 -1.069E+01 1.332E-01 1.715E-01 -7.844E+00 1.614E+02 -1.900E-01 7.121E+01 2.662E-01 2.062E-02 -2.985E-01 -1.102E-03 -1.289E+00 -2.382E+00 -7.273E-01 -6.405E-02 -4.056E-02 -3.839E-01 1.906E-02 5.305E-01 -4.673E-03 1.590E-02 -1.126E-02 | 7.198E-02 | -7.512E-04

-2.479E-05 | 8.648E-07 | -3.070E-05 -3.230E-01 -3.476E-01 5.087E-01 -1.421E-02 5.301E-02 -4.657E+02 -2.046E-02 -4.111E+00 1.069E-01 -1.412E-01 3.604E-02 1.156E-03 -7.855E-01 1.756E+00 -2.817E+00 4.597E-02 -1.484E-02 -3.841E+00 -3.234E-02 -6.164E-02 -2.560E-03 6.179E-03 -3.479E-03 | -1.691E-01 | -1.512E-03

7.264E-05 | 1.267E+00 | -1.366E-06 -2.417E-02 2.871E-03 4.525E-05 -6.934E-05 2.502E-03 -4.483E-01 3.757E-05 1.726E+02 2.876E-06 -1.352E-04 1.376E-04 1.451E-06 -2.220E-04 2.352E-03 -2.325E-03 6.238E-05 -5.461E-07 -3.275E-03 -3.586E-05 1.236E+00 -9.587E-07 2.397E-07 4.794E-07 | -3.927E-04 | -1.192E-06

-2.704E-05 | -2.333E-07 | -3.842E-05 -2.314E+00 -7.000E-01 1.972E-03 1.369E-01 2.380E-01 -4.257E+01 1.322E-03 -2.411E+02 -3.998E-01 -4.140E-01 -3.967E-01 -1.159E-01 -1.629E+00 -9.898E+00 -4.545E-02 -1.121E-01 -5.090E-02 -1.364E-01 -1.635E+00 -3.362E+00 -5.371E-03 -5.049E-03 -4.822E-03 | -7.099E+00 | 1.157E-01

3.228E-01 | 4.554E-01 | -4.470E-02 -8.313E+00 3.787E+02 -1.180E+01 8.276E+00 1.118E+01 1.430E+04 1.746E+01 -5.019E+03 -8.252E+01 -2.618E+01 -3.201E+01 -1.056E+01 -7.270E+01 -8.453E+02 1.647E+02 -8.652E+00 -3.461E+00 1.950E+02 -1.475E+02 -1.836E+02 -6.372E-01 -6.212E-01 -2.386E-01 | -6.487E+02 | 1.060E+01

-6.635E-01 | -1.051E-03 | -1.153E-02 1.861E-02 7.263E+01 3.116E+00 1.208E+01 9.768E-01 -1.940E+04 -1.426E+00 -5.239E+03 -2.611E+01 -8.457E+01 -3.010E+01 -1.038E+01 -1.657E+02 -9.492E+02 -2.606E+01 -1.165E+01 -4.897E+00 -6.730E+01 -1.470E+02 -1.845E+02 -5.221E-01 -4.251E-01 -5.248E-01 | -6.623E+02 | 1.035E+01

3.399E-01 | -4.540E-01 | 8.562E-02 8.937E+00 -7.834E+02 7.288E+00 3.043E+01 -1.280E+01 5.299E+03 -1.688E+01 -5.031E+03 -3.223E+01 -3.001E+01 -8.126E+01 -1.056E+01 -1.887E+02 -9.432E+02 -9.136E+01 -1.144E+01 -5.292E+00 -8.020E+01 -1.456E+02 -1.816E+02 -4.121E-01 -4.293E-01 -6.506E-01 | -6.449E+02 | 1.039E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.158E+02 | | 7.723E+00 2.304E+05 -1.285E+03 -9.954E+02 -4.573E+01 2.566E+05 -1.486E+06 3.067E+02 -1.554E+06 -4.479E+02 -1.088E+00 4.653E+02 -1.528E+00 4.182E+03 3.551E+03 1.855E+03 9.629E+01 6.381E+02 -1.295E+03 -2.287E+01 -1.116E+04 7.866E+00 -2.687E+01 1.904E+01 | -7.547E+01 | 1.451E+00

2.722E+03 | | -2.323E+02 1.286E+03 2.199E+06 -8.791E+03 1.607E+05 -1.319E+03 3.577E+02 -1.971E+03 -2.862E+04 1.960E+03 6.021E+02 -3.664E+03 4.135E+02 4.819E+04 6.773E+04 3.831E+04 2.216E+03 6.327E+02 3.834E+04 3.390E+02 1.482E+02 -1.272E+02 1.463E+01 1.126E+02 | 1.565E+03 | -4.783E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 160.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-1.423E-03 | 2.751E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

6.564E-06 | 7.766E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

6.712E-06 | 1.593E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.127E-07 | -5.384E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-8.406E-04 | 6.809E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.969E-04 | -5.901E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.316E-06 | -8.480E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 1.222E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.373E-06 | 2.356E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

4.925E-01 | -1.053E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-9.215E-02 | 4.374E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.003E-01 | -2.382E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-6.986E-04 | -1.423E-03 | 1.784E-02 7.656E-02 -2.149E+02 -1.753E-01 2.416E+00 -4.715E-02 3.422E-01 -3.822E-02 -6.244E-01 4.366E-02 -1.445E-03 -6.982E-02 -3.912E-02 9.353E-01 1.393E+00 7.441E-01 4.109E-02 1.233E-02 7.455E-01 9.093E-03 4.895E-03 -2.624E-03 7.588E-04 1.869E-03 | 4.222E-02 | -1.207E-03

-1.577E-05 | 6.564E-06 | -4.706E-05 -1.105E+00 -3.590E-04 2.337E-03 3.816E-05 1.194E-02 -6.642E-02 1.376E-05 -7.233E-02 -2.210E-05 4.212E-06 1.836E-05 3.151E-08 -5.964E-03 1.817E-04 9.681E-05 5.031E-06 2.986E-05 -4.457E-05 -9.816E-07 -5.192E-04 1.143E-07 -1.173E-06 1.060E-06 | -2.700E-06 | 4.621E-08

-3.506E-06 | 6.712E-06 | 9.073E-04 2.956E-03 -6.748E+00 -5.122E-03 7.199E-02 -1.385E-03 9.812E-03 -1.112E-03 -1.762E-02 1.275E-03 -3.739E-05 -2.026E-03 -9.720E-04 2.721E-02 3.415E-02 2.165E-02 1.200E-03 3.585E-04 2.169E-02 2.577E-04 1.395E-04 -7.634E-05 2.208E-05 5.439E-05 | 1.204E-03 | -3.455E-05

3.026E-05 | 2.127E-07 | 2.026E-05 1.111E-01 -7.919E-04 -4.020E-01 6.133E-07 -7.025E-05 2.498E+01 -9.182E-08 3.176E-04 1.207E-07 -1.146E-08 -9.562E-08 3.848E-09 -3.966E-05 1.001E-08 -3.597E-02 -1.930E-08 -2.202E-07 5.302E-02 4.325E-09 2.280E-06 -1.763E-09 4.228E-09 -4.081E-09 | 3.934E-08 | -9.095E-11

7.365E-04 | -8.406E-04 | -9.734E-02 4.652E-02 8.176E+02 1.127E+00 -1.355E+01 2.470E-01 -1.759E+01 2.446E-01 5.750E+01 2.231E-01 4.693E-01 9.600E-01 6.582E-02 -6.759E+00 -1.320E+01 -4.700E+00 -3.186E-01 -1.017E-01 -4.741E+00 -7.467E-01 -3.366E-01 1.876E-02 -4.908E-03 -1.256E-02 | -2.700E+00 | 6.519E-02

4.816E-04 | 2.969E-04 | 5.405E-03 1.074E+02 -1.068E+01 1.334E-01 1.711E-01 -7.843E+00 1.613E+02 -1.897E-01 7.121E+01 2.940E-01 -3.642E-02 -2.692E-01 -1.089E-03 -1.284E+00 -2.373E+00 -7.292E-01 -6.403E-02 -4.071E-02 -3.859E-01 1.900E-02 5.305E-01 -1.911E-03 1.504E-02 -1.317E-02 | 6.671E-02 | -6.466E-04

-1.407E-05 | -1.316E-06 | -3.236E-05 -3.230E-01 -3.378E-01 5.136E-01 -1.441E-02 5.298E-02 -4.650E+02 -2.115E-02 -4.105E+00 8.720E-02 -1.456E-01 6.018E-02 1.133E-03 -8.105E-01 1.743E+00 -2.826E+00 4.613E-02 -1.516E-02 -3.849E+00 -3.214E-02 -6.139E-02 -1.577E-03 6.000E-03 -4.289E-03 | -1.665E-01 | -1.455E-03

3.900E-05 | 1.267E+00 | -1.281E-06 -2.416E-02 2.885E-03 4.183E-05 -7.136E-05 2.497E-03 -4.477E-01 3.415E-05 1.726E+02 -1.774E-05 -1.201E-04 1.393E-04 1.110E-06 -2.416E-04 2.353E-03 -2.330E-03 6.260E-05 -5.461E-07 -3.284E-03 -3.586E-05 1.236E+00 -4.794E-07 9.587E-07 0.000E+00 | -4.098E-04 | -1.490E-06

1.608E-05 | -1.373E-06 | -3.816E-05 -2.314E+00 -7.000E-01 3.288E-03 1.369E-01 2.380E-01 -4.249E+01 1.193E-03 -2.411E+02 -4.016E-01 -4.135E-01 -3.954E-01 -1.159E-01 -1.632E+00 -9.887E+00 -4.941E-02 -1.122E-01 -5.101E-02 -1.402E-01 -1.636E+00 -3.363E+00 -5.378E-03 -4.994E-03 -4.869E-03 | -7.096E+00 | 1.158E-01

2.159E-01 | 4.925E-01 | -5.355E-02 -9.071E+00 4.568E+02 -1.207E+01 6.586E+00 1.237E+01 1.159E+04 1.872E+01 -5.041E+03 -8.135E+01 -2.679E+01 -3.232E+01 -1.055E+01 -7.108E+01 -8.463E+02 1.700E+02 -8.732E+00 -3.436E+00 1.946E+02 -1.477E+02 -1.839E+02 -6.802E-01 -5.766E-01 -2.372E-01 | -6.501E+02 | 1.059E+01

-6.560E-01 | -9.215E-02 | 1.791E-03 1.750E+00 -4.613E+01 5.028E+00 1.436E+01 -1.448E+00 -1.997E+04 -4.870E+00 -5.237E+03 -2.673E+01 -8.514E+01 -2.920E+01 -1.039E+01 -1.770E+02 -9.563E+02 -5.174E+01 -1.189E+01 -5.083E+00 -9.420E+01 -1.469E+02 -1.844E+02 -4.852E-01 -4.137E-01 -5.731E-01 | -6.615E+02 | 1.034E+01

4.377E-01 | -4.003E-01 | 8.119E-02 7.954E+00 -7.431E+02 5.871E+00 2.984E+01 -1.156E+01 8.594E+03 -1.471E+01 -5.010E+03 -3.253E+01 -2.910E+01 -8.183E+01 -1.058E+01 -1.793E+02 -9.316E+02 -7.186E+01 -1.115E+01 -5.153E+00 -5.370E+01 -1.457E+02 -1.815E+02 -4.074E-01 -4.692E-01 -6.181E-01 | -6.433E+02 | 1.042E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.059E+02 | | 7.719E+00 2.304E+05 -1.298E+03 -9.924E+02 -4.498E+01 2.566E+05 -1.486E+06 3.063E+02 -1.554E+06 -4.876E+02 9.043E+01 4.133E+02 -1.544E+00 4.178E+03 3.538E+03 1.860E+03 9.624E+01 6.384E+02 -1.289E+03 -2.275E+01 -1.116E+04 3.191E+00 -2.543E+01 2.225E+01 | -6.848E+01 | 1.285E+00

2.713E+03 | | -2.322E+02 1.271E+03 2.198E+06 -8.784E+03 1.607E+05 -1.317E+03 6.926E+03 -1.968E+03 -2.863E+04 2.355E+03 2.609E+01 -3.485E+03 4.126E+02 4.805E+04 6.735E+04 3.837E+04 2.209E+03 6.332E+02 3.841E+04 3.197E+02 1.288E+02 -1.348E+02 3.895E+01 9.634E+01 | 1.650E+03 | -4.978E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 170.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-1.546E-03 | 2.749E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

4.396E-06 | 1.532E-06 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

5.410E-06 | 1.602E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

3.899E-06 | -5.384E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-6.290E-04 | 6.706E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

3.320E-04 | -5.461E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-3.305E-06 | -8.511E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 1.396E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.474E-06 | 2.524E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

5.144E-01 | -3.580E-02 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.808E-01 | 4.186E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-3.340E-01 | -2.889E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-1.010E-03 | -1.546E-03 | 1.784E-02 7.552E-02 -2.149E+02 -1.742E-01 2.416E+00 -4.712E-02 6.093E-01 -3.830E-02 -6.232E-01 4.973E-02 -1.280E-02 -6.454E-02 -3.914E-02 9.272E-01 1.384E+00 7.435E-01 4.105E-02 1.228E-02 7.454E-01 8.730E-03 4.540E-03 -2.694E-03 1.208E-03 1.497E-03 | 4.669E-02 | -1.257E-03

-1.605E-05 | 4.396E-06 | -4.706E-05 -1.105E+00 -3.591E-04 2.325E-03 3.819E-05 1.194E-02 -6.638E-02 1.371E-05 -7.233E-02 -2.317E-05 8.223E-06 1.542E-05 3.170E-08 -5.966E-03 1.832E-04 9.605E-05 5.032E-06 2.986E-05 -4.436E-05 -9.841E-07 -5.192E-04 -1.076E-07 -1.063E-06 1.173E-06 | -2.258E-06 | 4.008E-08

-1.321E-05 | 5.410E-06 | 9.073E-04 2.928E-03 -6.748E+00 -5.091E-03 7.199E-02 -1.384E-03 1.757E-02 -1.115E-03 -1.758E-02 1.452E-03 -3.679E-04 -1.873E-03 -9.727E-04 2.697E-02 3.391E-02 2.163E-02 1.199E-03 3.571E-04 2.169E-02 2.471E-04 1.292E-04 -7.836E-05 3.515E-05 4.356E-05 | 1.334E-03 | -3.601E-05

2.212E-05 | 3.899E-06 | 2.054E-05 1.111E-01 -7.981E-04 -4.020E-01 4.485E-07 -7.030E-05 2.498E+01 -9.716E-08 3.172E-04 1.087E-07 -3.333E-08 -6.879E-08 5.266E-09 -3.992E-05 6.339E-08 -3.597E-02 -2.089E-08 -2.194E-07 5.302E-02 -1.824E-09 2.271E-06 -4.316E-10 5.179E-09 -4.308E-09 | 1.537E-08 | -9.095E-11

2.084E-03 | -6.290E-04 | -9.735E-02 5.082E-02 8.177E+02 1.121E+00 -1.355E+01 2.468E-01 -1.932E+01 2.451E-01 5.749E+01 1.788E-01 5.435E-01 9.302E-01 6.589E-02 -6.704E+00 -1.314E+01 -4.695E+00 -3.184E-01 -1.014E-01 -4.739E+00 -7.454E-01 -3.354E-01 1.924E-02 -8.036E-03 -9.953E-03 | -2.734E+00 | 6.564E-02

6.087E-05 | 3.320E-04 | 5.404E-03 1.074E+02 -1.068E+01 1.329E-01 1.708E-01 -7.843E+00 1.611E+02 -1.891E-01 7.121E+01 3.127E-01 -9.255E-02 -2.317E-01 -1.100E-03 -1.266E+00 -2.362E+00 -7.294E-01 -6.407E-02 -4.064E-02 -3.870E-01 1.889E-02 5.303E-01 9.047E-04 1.372E-02 -1.468E-02 | 5.926E-02 | -5.796E-04

-7.471E-06 | -3.305E-06 | -3.496E-05 -3.228E-01 -3.203E-01 5.177E-01 -1.488E-02 5.291E-02 -4.645E+02 -2.178E-02 -4.099E+00 6.497E-02 -1.457E-01 8.253E-02 1.154E-03 -8.292E-01 1.740E+00 -2.835E+00 4.631E-02 -1.542E-02 -3.858E+00 -3.171E-02 -6.091E-02 -5.515E-04 5.641E-03 -4.966E-03 | -1.701E-01 | -1.406E-03

4.555E-05 | 1.267E+00 | -1.025E-06 -2.408E-02 2.864E-03 1.622E-05 -7.427E-05 2.494E-03 -4.471E-01 4.098E-05 1.726E+02 -5.057E-05 -1.019E-04 1.467E-04 1.537E-06 -2.681E-04 2.338E-03 -2.340E-03 6.216E-05 -8.192E-07 -3.291E-03 -3.330E-05 1.236E+00 -1.198E-06 2.397E-07 -2.397E-07 | 1.451E-04 | -1.490E-06

1.197E-05 | 1.474E-06 | -3.851E-05 -2.315E+00 -6.993E-01 4.696E-03 1.369E-01 2.380E-01 -4.242E+01 1.040E-03 -2.411E+02 -4.035E-01 -4.127E-01 -3.943E-01 -1.160E-01 -1.634E+00 -9.881E+00 -5.114E-02 -1.124E-01 -5.113E-02 -1.418E-01 -1.636E+00 -3.363E+00 -5.377E-03 -4.942E-03 -4.921E-03 | -7.101E+00 | 1.158E-01

1.011E-01 | 5.144E-01 | -6.048E-02 -9.547E+00 5.177E+02 -1.185E+01 5.213E+00 1.318E+01 8.536E+03 1.939E+01 -5.065E+03 -8.029E+01 -2.766E+01 -3.229E+01 -1.053E+01 -7.217E+01 -8.503E+02 1.706E+02 -8.882E+00 -3.453E+00 1.887E+02 -1.479E+02 -1.843E+02 -7.131E-01 -5.248E-01 -2.529E-01 | -6.519E+02 | 1.058E+01

-6.278E-01 | -1.808E-01 | 1.529E-02 3.439E+00 -1.665E+02 6.755E+00 1.670E+01 -3.842E+00 -1.995E+04 -8.179E+00 -5.232E+03 -2.761E+01 -8.538E+01 -2.838E+01 -1.040E+01 -1.869E+02 -9.622E+02 -7.498E+01 -1.210E+01 -5.252E+00 -1.174E+02 -1.467E+02 -1.842E+02 -4.403E-01 -4.199E-01 -6.126E-01 | -6.612E+02 | 1.033E+01

5.222E-01 | -3.340E-01 | 7.462E-02 6.725E+00 -6.838E+02 4.187E+00 2.888E+01 -9.977E+00 1.163E+04 -1.209E+01 -4.992E+03 -3.249E+01 -2.827E+01 -8.261E+01 -1.060E+01 -1.683E+02 -9.198E+02 -4.943E+01 -1.085E+01 -4.991E+00 -2.482E+01 -1.459E+02 -1.815E+02 -4.183E-01 -5.002E-01 -5.784E-01 | -6.428E+02 | 1.045E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-9.378E+01 | | 7.716E+00 2.304E+05 -1.308E+03 -9.831E+02 -4.435E+01 2.566E+05 -1.486E+06 3.051E+02 -1.554E+06 -5.123E+02 1.797E+02 3.487E+02 -1.535E+00 4.153E+03 3.521E+03 1.863E+03 9.628E+01 6.384E+02 -1.286E+03 -2.278E+01 -1.116E+04 -1.548E+00 -2.318E+01 2.481E+01 | -5.681E+01 | 1.140E+00

2.704E+03 | | -2.322E+02 1.279E+03 2.198E+06 -8.726E+03 1.607E+05 -1.315E+03 2.070E+04 -1.972E+03 -2.856E+04 2.667E+03 -5.584E+02 -3.213E+03 4.114E+02 4.764E+04 6.692E+04 3.833E+04 2.206E+03 6.308E+02 3.841E+04 3.008E+02 1.103E+02 -1.384E+02 6.207E+01 7.722E+01 | 1.879E+03 | -5.234E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 180.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-1.710E-03 | 2.747E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.165E-06 | 1.985E-06 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.806E-06 | 1.608E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

6.016E-06 | -5.383E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.453E-04 | 6.644E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

3.060E-04 | -5.015E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.308E-06 | -8.567E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 1.571E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

6.875E-07 | 4.507E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

5.205E-01 | 3.564E-02 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.641E-01 | 3.878E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.573E-01 | -3.297E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-1.378E-03 | -1.710E-03 | 1.784E-02 7.670E-02 -2.149E+02 -1.735E-01 2.416E+00 -4.710E-02 9.447E-01 -3.852E-02 -6.209E-01 5.402E-02 -2.401E-02 -5.762E-02 -3.914E-02 9.163E-01 1.377E+00 7.402E-01 4.104E-02 1.218E-02 7.429E-01 8.505E-03 4.334E-03 -2.686E-03 1.621E-03 1.082E-03 | 4.892E-02 | -1.291E-03

-1.628E-05 | 2.165E-06 | -4.705E-05 -1.105E+00 -3.797E-04 2.330E-03 3.822E-05 1.194E-02 -6.635E-02 1.364E-05 -7.233E-02 -2.353E-05 1.199E-05 1.202E-05 3.527E-08 -5.968E-03 1.837E-04 9.412E-05 5.040E-06 2.984E-05 -4.446E-05 -9.700E-07 -5.192E-04 -3.267E-07 -9.204E-07 1.250E-06 | -1.372E-06 | 2.742E-08

-2.480E-05 | 2.806E-06 | 9.073E-04 2.974E-03 -6.748E+00 -5.073E-03 7.200E-02 -1.383E-03 2.732E-02 -1.121E-03 -1.751E-02 1.577E-03 -6.941E-04 -1.672E-03 -9.727E-04 2.665E-02 3.370E-02 2.154E-02 1.198E-03 3.541E-04 2.162E-02 2.405E-04 1.231E-04 -7.814E-05 4.717E-05 3.148E-05 | 1.399E-03 | -3.699E-05

8.031E-06 | 6.016E-06 | 2.082E-05 1.110E-01 -8.135E-04 -4.020E-01 3.152E-07 -7.035E-05 2.498E+01 -3.985E-08 3.173E-04 1.086E-07 -5.173E-08 -5.321E-08 6.872E-09 -4.010E-05 1.794E-07 -3.597E-02 -2.185E-08 -2.185E-07 5.302E-02 1.163E-08 2.287E-06 9.399E-10 3.434E-09 -3.924E-09 | -2.242E-07 | -2.183E-10

3.472E-03 | -2.453E-04 | -9.735E-02 4.691E-02 8.177E+02 1.113E+00 -1.355E+01 2.467E-01 -2.150E+01 2.465E-01 5.747E+01 1.457E-01 6.177E-01 8.891E-01 6.583E-02 -6.632E+00 -1.310E+01 -4.672E+00 -3.185E-01 -1.007E-01 -4.721E+00 -7.454E-01 -3.355E-01 1.917E-02 -1.091E-02 -7.049E-03 | -2.752E+00 | 6.593E-02

-4.560E-04 | 3.060E-04 | 5.403E-03 1.074E+02 -1.068E+01 1.304E-01 1.706E-01 -7.843E+00 1.608E+02 -1.883E-01 7.121E+01 3.219E-01 -1.460E-01 -1.874E-01 -1.160E-03 -1.241E+00 -2.352E+00 -7.257E-01 -6.419E-02 -4.034E-02 -3.846E-01 1.855E-02 5.300E-01 3.696E-03 1.198E-02 -1.573E-02 | 5.229E-02 | -4.244E-04

-1.126E-05 | -4.308E-06 | -3.810E-05 -3.226E-01 -2.997E-01 5.199E-01 -1.552E-02 5.281E-02 -4.644E+02 -2.218E-02 -4.095E+00 4.085E-02 -1.415E-01 1.025E-01 1.226E-03 -8.368E-01 1.747E+00 -2.846E+00 4.648E-02 -1.555E-02 -3.868E+00 -3.111E-02 -6.028E-02 4.905E-04 5.112E-03 -5.490E-03 | -1.767E-01 | -1.343E-03

7.898E-05 | 1.267E+00 | -1.366E-06 -2.414E-02 2.885E-03 4.952E-05 -6.283E-05 2.509E-03 -4.468E-01 8.538E-07 1.726E+02 -7.550E-05 -8.389E-05 1.512E-04 1.451E-06 -2.826E-04 2.350E-03 -2.350E-03 6.216E-05 -8.192E-07 -3.302E-03 -3.074E-05 1.236E+00 0.000E+00 7.190E-07 0.000E+00 | -1.793E-04 | -1.490E-06

-1.485E-05 | 6.875E-07 | -3.851E-05 -2.315E+00 -6.982E-01 5.681E-03 1.368E-01 2.380E-01 -4.238E+01 8.948E-04 -2.411E+02 -4.054E-01 -4.116E-01 -3.936E-01 -1.160E-01 -1.634E+00 -9.882E+00 -5.299E-02 -1.126E-01 -5.125E-02 -1.435E-01 -1.637E+00 -3.364E+00 -5.370E-03 -4.896E-03 -4.974E-03 | -7.106E+00 | 1.159E-01

-1.202E-02 | 5.205E-01 | -6.529E-02 -9.731E+00 5.596E+02 -1.118E+01 4.189E+00 1.359E+01 5.240E+03 1.945E+01 -5.090E+03 -7.947E+01 -2.869E+01 -3.191E+01 -1.052E+01 -7.593E+01 -8.571E+02 1.661E+02 -9.081E+00 -3.512E+00 1.772E+02 -1.480E+02 -1.846E+02 -7.321E-01 -4.713E-01 -2.841E-01 | -6.539E+02 | 1.057E+01

-5.791E-01 | -2.641E-01 | 2.862E-02 5.039E+00 -2.850E+02 8.171E+00 1.905E+01 -6.131E+00 -1.933E+04 -1.125E+01 -5.222E+03 -2.865E+01 -8.529E+01 -2.775E+01 -1.041E+01 -1.949E+02 -9.671E+02 -9.524E+01 -1.226E+01 -5.393E+00 -1.363E+02 -1.466E+02 -1.839E+02 -3.928E-01 -4.423E-01 -6.388E-01 | -6.609E+02 | 1.032E+01

5.891E-01 | -2.573E-01 | 6.613E-02 5.305E+00 -6.073E+02 2.314E+00 2.756E+01 -8.094E+00 1.431E+04 -9.112E+00 -4.977E+03 -3.209E+01 -2.763E+01 -8.352E+01 -1.061E+01 -1.564E+02 -9.084E+02 -2.493E+01 -1.055E+01 -4.814E+00 5.385E+00 -1.460E+02 -1.816E+02 -4.438E-01 -5.180E-01 -5.368E-01 | -6.424E+02 | 1.048E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-8.142E+01 | | 7.725E+00 2.304E+05 -1.311E+03 -9.764E+02 -4.368E+01 2.566E+05 -1.485E+06 3.042E+02 -1.554E+06 -5.212E+02 2.637E+02 2.737E+02 -1.457E+00 4.114E+03 3.503E+03 1.860E+03 9.646E+01 6.379E+02 -1.287E+03 -2.238E+01 -1.116E+04 -6.300E+00 -2.024E+01 2.656E+01 | -4.123E+01 | 9.000E-01

2.701E+03 | | -2.322E+02 1.266E+03 2.198E+06 -8.628E+03 1.607E+05 -1.315E+03 3.799E+04 -1.983E+03 -2.844E+04 2.887E+03 -1.135E+03 -2.856E+03 4.114E+02 4.708E+04 6.655E+04 3.817E+04 2.206E+03 6.254E+02 3.828E+04 2.889E+02 9.934E+01 -1.380E+02 8.332E+01 5.588E+01 | 1.994E+03 | -5.407E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 190.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-1.902E-03 | 2.744E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.361E-08 | 2.130E-06 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-7.075E-07 | 1.609E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

6.090E-06 | -5.382E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.465E-04 | 6.644E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.143E-04 | -4.650E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-3.931E-06 | -8.624E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 1.745E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-8.676E-08 | 4.597E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

5.110E-01 | 1.068E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-3.392E-01 | 3.462E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.725E-01 | -3.594E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-1.413E-03 | -1.902E-03 | 1.784E-02 7.683E-02 -2.149E+02 -1.706E-01 2.416E+00 -4.712E-02 1.259E+00 -3.881E-02 -6.181E-01 5.641E-02 -3.478E-02 -4.923E-02 -3.912E-02 9.053E-01 1.373E+00 7.368E-01 4.109E-02 1.207E-02 7.401E-01 8.713E-03 4.563E-03 -2.602E-03 1.986E-03 6.338E-04 | 4.778E-02 | -1.337E-03

-1.581E-05 | -4.361E-08 | -4.705E-05 -1.105E+00 -3.833E-04 2.324E-03 3.822E-05 1.194E-02 -6.631E-02 1.362E-05 -7.233E-02 -2.318E-05 1.539E-05 8.254E-06 3.405E-08 -5.970E-03 1.832E-04 9.166E-05 5.042E-06 2.982E-05 -4.450E-05 -9.615E-07 -5.192E-04 -5.363E-07 -7.492E-07 1.289E-06 | -1.703E-06 | 2.428E-08

-2.595E-05 | -7.075E-07 | 9.073E-04 2.987E-03 -6.748E+00 -4.986E-03 7.199E-02 -1.383E-03 3.646E-02 -1.129E-03 -1.743E-02 1.646E-03 -1.007E-03 -1.427E-03 -9.721E-04 2.633E-02 3.359E-02 2.144E-02 1.200E-03 3.511E-04 2.154E-02 2.466E-04 1.298E-04 -7.569E-05 5.779E-05 1.845E-05 | 1.366E-03 | -3.832E-05

-6.664E-06 | 6.090E-06 | 2.080E-05 1.109E-01 -8.224E-04 -4.020E-01 2.144E-07 -7.038E-05 2.498E+01 -7.345E-08 3.175E-04 1.121E-07 -7.536E-08 -3.009E-08 6.400E-09 -4.017E-05 1.724E-07 -3.597E-02 -2.180E-08 -2.194E-07 5.302E-02 7.107E-09 2.283E-06 2.542E-09 2.982E-09 -5.420E-09 | 1.199E-08 | -7.913E-10

3.644E-03 | 2.465E-04 | -9.735E-02 4.683E-02 8.176E+02 1.098E+00 -1.355E+01 2.467E-01 -2.355E+01 2.482E-01 5.746E+01 1.248E-01 6.899E-01 8.377E-01 6.564E-02 -6.558E+00 -1.307E+01 -4.647E+00 -3.188E-01 -1.001E-01 -4.701E+00 -7.478E-01 -3.380E-01 1.857E-02 -1.345E-02 -3.922E-03 | -2.745E+00 | 6.620E-02

-8.354E-04 | 2.143E-04 | 5.402E-03 1.074E+02 -1.068E+01 1.274E-01 1.706E-01 -7.843E+00 1.605E+02 -1.879E-01 7.120E+01 3.212E-01 -1.952E-01 -1.375E-01 -1.146E-03 -1.215E+00 -2.347E+00 -7.233E-01 -6.425E-02 -4.010E-02 -3.838E-01 1.839E-02 5.298E-01 6.379E-03 9.868E-03 -1.630E-02 | 5.557E-02 | -3.991E-04

2.173E-05 | -3.931E-06 | -4.078E-05 -3.223E-01 -2.810E-01 5.195E-01 -1.612E-02 5.271E-02 -4.647E+02 -2.222E-02 -4.095E+00 1.554E-02 -1.331E-01 1.195E-01 1.282E-03 -8.305E-01 1.762E+00 -2.851E+00 4.672E-02 -1.547E-02 -3.874E+00 -3.036E-02 -5.953E-02 1.524E-03 4.430E-03 -5.846E-03 | -1.800E-01 | -1.323E-03

7.971E-05 | 1.267E+00 | -1.281E-06 -2.415E-02 2.916E-03 4.269E-05 -7.068E-05 2.505E-03 -4.471E-01 4.183E-05 1.726E+02 -8.509E-05 -5.800E-05 1.479E-04 1.622E-06 -2.852E-04 2.361E-03 -2.357E-03 6.373E-05 -1.638E-06 -3.308E-03 -2.988E-05 1.236E+00 -9.587E-07 7.190E-07 2.397E-07 | -2.134E-04 | -5.960E-07

2.072E-06 | -8.676E-08 | -3.893E-05 -2.315E+00 -6.966E-01 5.928E-03 1.368E-01 2.380E-01 -4.237E+01 7.786E-04 -2.411E+02 -4.072E-01 -4.102E-01 -3.931E-01 -1.161E-01 -1.635E+00 -9.887E+00 -5.230E-02 -1.127E-01 -5.133E-02 -1.428E-01 -1.637E+00 -3.364E+00 -5.362E-03 -4.861E-03 -5.030E-03 | -7.112E+00 | 1.159E-01

-1.258E-01 | 5.110E-01 | -6.786E-02 -9.610E+00 5.815E+02 -1.018E+01 3.540E+00 1.358E+01 1.792E+03 1.891E+01 -5.114E+03 -7.897E+01 -2.975E+01 -3.122E+01 -1.051E+01 -8.210E+01 -8.660E+02 1.569E+02 -9.318E+00 -3.607E+00 1.607E+02 -1.481E+02 -1.848E+02 -7.360E-01 -4.226E-01 -3.278E-01 | -6.563E+02 | 1.055E+01

-5.081E-01 | -3.392E-01 | 4.138E-02 6.494E+00 -3.983E+02 9.202E+00 2.133E+01 -8.241E+00 -1.814E+04 -1.397E+01 -5.209E+03 -2.973E+01 -8.490E+01 -2.737E+01 -1.043E+01 -2.011E+02 -9.708E+02 -1.117E+02 -1.237E+01 -5.502E+00 -1.503E+02 -1.464E+02 -1.836E+02 -3.487E-01 -4.782E-01 -6.494E-01 | -6.602E+02 | 1.032E+01

6.382E-01 | -1.725E-01 | 5.593E-02 3.727E+00 -5.159E+02 3.489E-01 2.591E+01 -5.973E+00 1.658E+04 -5.871E+00 -4.966E+03 -3.138E+01 -2.724E+01 -8.442E+01 -1.063E+01 -1.445E+02 -8.979E+02 1.015E+00 -1.024E+01 -4.632E+00 3.615E+01 -1.462E+02 -1.817E+02 -4.813E-01 -5.204E-01 -4.988E-01 | -6.423E+02 | 1.050E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-7.110E+01 | | 7.728E+00 2.304E+05 -1.313E+03 -9.673E+02 -4.341E+01 2.566E+05 -1.485E+06 3.035E+02 -1.554E+06 -5.144E+02 3.398E+02 1.904E+02 -1.490E+00 4.069E+03 3.492E+03 1.859E+03 9.649E+01 6.375E+02 -1.287E+03 -2.230E+01 -1.116E+04 -1.080E+01 -1.664E+01 2.751E+01 | -4.687E+01 | 8.237E-01

2.701E+03 | | -2.322E+02 1.266E+03 2.198E+06 -8.551E+03 1.607E+05 -1.315E+03 5.419E+04 -1.998E+03 -2.830E+04 3.009E+03 -1.688E+03 -2.424E+03 4.125E+02 4.651E+04 6.635E+04 3.799E+04 2.209E+03 6.201E+02 3.814E+04 2.994E+02 1.109E+02 -1.337E+02 1.021E+02 3.286E+01 | 1.935E+03 | -5.643E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 200.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-2.083E-03 | 2.742E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.197E-06 | 1.975E-06 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-3.860E-06 | 1.606E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

4.338E-06 | -5.382E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

6.809E-04 | 6.710E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

7.148E-05 | -4.448E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.282E-06 | -8.668E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 1.920E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.268E-09 | 4.716E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

4.863E-01 | 1.757E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.037E-01 | 2.949E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-8.268E-02 | -3.770E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-1.119E-03 | -2.083E-03 | 1.784E-02 7.695E-02 -2.149E+02 -1.693E-01 2.416E+00 -4.715E-02 1.468E+00 -3.900E-02 -6.154E-01 5.682E-02 -4.479E-02 -3.960E-02 -3.910E-02 8.970E-01 1.374E+00 7.330E-01 4.120E-02 1.203E-02 7.366E-01 9.030E-03 4.902E-03 -2.438E-03 2.294E-03 1.677E-04 | 4.620E-02 | -1.293E-03

-1.549E-05 | -2.197E-06 | -4.704E-05 -1.105E+00 -3.898E-04 2.320E-03 3.820E-05 1.194E-02 -6.629E-02 1.365E-05 -7.233E-02 -2.211E-05 1.834E-05 4.249E-06 3.075E-08 -5.972E-03 1.818E-04 8.929E-05 5.040E-06 2.981E-05 -4.472E-05 -9.705E-07 -5.192E-04 -7.295E-07 -5.544E-07 1.288E-06 | -2.176E-06 | 4.180E-08

-1.705E-05 | -3.860E-06 | 9.073E-04 2.997E-03 -6.748E+00 -4.947E-03 7.199E-02 -1.384E-03 4.256E-02 -1.135E-03 -1.735E-02 1.658E-03 -1.299E-03 -1.147E-03 -9.714E-04 2.609E-02 3.360E-02 2.133E-02 1.203E-03 3.499E-04 2.144E-02 2.558E-04 1.396E-04 -7.091E-05 6.675E-05 4.885E-06 | 1.320E-03 | -3.705E-05

-1.786E-05 | 4.338E-06 | 2.078E-05 1.108E-01 -8.179E-04 -4.020E-01 1.830E-07 -7.037E-05 2.498E+01 -6.105E-08 3.176E-04 1.024E-07 -7.362E-08 -2.284E-08 6.389E-09 -4.009E-05 1.309E-07 -3.597E-02 -2.170E-08 -2.208E-07 5.302E-02 4.117E-09 2.281E-06 2.180E-09 2.385E-09 -5.559E-09 | -3.804E-08 | -5.457E-10

2.289E-03 | 6.809E-04 | -9.734E-02 4.665E-02 8.176E+02 1.089E+00 -1.355E+01 2.469E-01 -2.491E+01 2.494E-01 5.744E+01 1.167E-01 7.581E-01 7.775E-01 6.537E-02 -6.504E+00 -1.308E+01 -4.617E+00 -3.197E-01 -9.998E-02 -4.674E+00 -7.503E-01 -3.406E-01 1.742E-02 -1.558E-02 -6.709E-04 | -2.742E+00 | 6.619E-02

-1.227E-03 | 7.148E-05 | 5.403E-03 1.074E+02 -1.068E+01 1.239E-01 1.708E-01 -7.843E+00 1.602E+02 -1.883E-01 7.120E+01 3.106E-01 -2.386E-01 -8.352E-02 -1.106E-03 -1.195E+00 -2.347E+00 -7.197E-01 -6.423E-02 -4.011E-02 -3.814E-01 1.850E-02 5.299E-01 8.865E-03 7.443E-03 -1.637E-02 | 6.243E-02 | -6.104E-04

-6.348E-06 | -2.282E-06 | -4.255E-05 -3.221E-01 -2.695E-01 5.169E-01 -1.659E-02 5.264E-02 -4.653E+02 -2.194E-02 -4.097E+00 -1.025E-02 -1.208E-01 1.330E-01 1.340E-03 -8.108E-01 1.780E+00 -2.853E+00 4.697E-02 -1.527E-02 -3.877E+00 -2.986E-02 -5.905E-02 2.513E-03 3.614E-03 -6.033E-03 | -1.778E-01 | -1.426E-03

8.195E-05 | 1.267E+00 | -1.281E-06 -2.410E-02 2.928E-03 2.305E-05 -8.078E-05 2.500E-03 -4.475E-01 3.500E-05 1.726E+02 -1.148E-04 -2.205E-05 1.469E-04 1.622E-06 -2.741E-04 2.369E-03 -2.360E-03 6.305E-05 -8.192E-07 -3.309E-03 -3.244E-05 1.236E+00 -2.397E-07 1.438E-06 -2.397E-07 | -2.220E-04 | -8.941E-07

-5.456E-06 | -4.268E-09 | -3.919E-05 -2.315E+00 -6.946E-01 5.410E-03 1.367E-01 2.380E-01 -4.241E+01 8.478E-04 -2.411E+02 -4.088E-01 -4.087E-01 -3.929E-01 -1.162E-01 -1.634E+00 -9.894E+00 -4.892E-02 -1.128E-01 -5.135E-02 -1.395E-01 -1.637E+00 -3.364E+00 -5.331E-03 -4.834E-03 -5.086E-03 | -7.117E+00 | 1.163E-01

-2.318E-01 | 4.863E-01 | -6.814E-02 -9.188E+00 5.827E+02 -8.937E+00 3.288E+00 1.315E+01 -1.714E+03 1.780E+01 -5.139E+03 -7.883E+01 -3.074E+01 -3.029E+01 -1.049E+01 -8.988E+01 -8.761E+02 1.433E+02 -9.591E+00 -3.727E+00 1.396E+02 -1.480E+02 -1.850E+02 -7.207E-01 -3.839E-01 -3.787E-01 | -6.585E+02 | 1.057E+01

-4.277E-01 | -4.037E-01 | 5.322E-02 7.758E+00 -5.032E+02 9.859E+00 2.350E+01 -1.011E+01 -1.641E+04 -1.626E+01 -5.192E+03 -3.073E+01 -8.427E+01 -2.731E+01 -1.045E+01 -2.050E+02 -9.733E+02 -1.239E+02 -1.243E+01 -5.578E+00 -1.588E+02 -1.463E+02 -1.833E+02 -3.115E-01 -5.231E-01 -6.437E-01 | -6.589E+02 | 1.034E+01

6.629E-01 | -8.268E-02 | 4.431E-02 2.048E+00 -4.118E+02 -1.633E+00 2.400E+01 -3.681E+00 1.836E+04 -2.470E+00 -4.958E+03 -3.043E+01 -2.718E+01 -8.521E+01 -1.065E+01 -1.327E+02 -8.880E+02 2.767E+01 -9.936E+00 -4.448E+00 6.659E+01 -1.464E+02 -1.819E+02 -5.245E-01 -5.066E-01 -4.695E-01 | -6.427E+02 | 1.056E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-6.522E+01 | | 7.721E+00 2.304E+05 -1.306E+03 -9.640E+02 -4.353E+01 2.566E+05 -1.484E+06 3.042E+02 -1.554E+06 -4.915E+02 4.060E+02 1.016E+02 -1.556E+00 4.033E+03 3.488E+03 1.854E+03 9.641E+01 6.375E+02 -1.291E+03 -2.256E+01 -1.116E+04 -1.503E+01 -1.255E+01 2.761E+01 | -5.836E+01 | 1.204E+00

2.707E+03 | | -2.323E+02 1.268E+03 2.199E+06 -8.486E+03 1.607E+05 -1.317E+03 6.498E+04 -2.008E+03 -2.816E+04 3.029E+03 -2.203E+03 -1.927E+03 4.137E+02 4.608E+04 6.639E+04 3.779E+04 2.214E+03 6.180E+02 3.796E+04 3.156E+02 1.283E+02 -1.253E+02 1.180E+02 8.891E+00 | 1.852E+03 | -5.412E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 210.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-2.217E-03 | 2.739E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.274E-06 | 1.528E-06 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-5.609E-06 | 1.599E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.465E-06 | -5.381E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

9.190E-04 | 6.823E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.011E-04 | -4.466E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-7.429E-07 | -8.688E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 2.094E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.629E-07 | 3.976E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

4.473E-01 | 2.401E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.560E-01 | 2.356E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

8.967E-03 | -3.821E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-8.501E-04 | -2.217E-03 | 1.784E-02 7.812E-02 -2.148E+02 -1.685E-01 2.416E+00 -4.719E-02 1.517E+00 -3.908E-02 -6.137E-01 5.522E-02 -5.378E-02 -2.898E-02 -3.907E-02 8.937E-01 1.377E+00 7.312E-01 4.134E-02 1.198E-02 7.349E-01 9.399E-03 5.282E-03 -2.238E-03 2.531E-03 -3.043E-04 | 4.432E-02 | -1.228E-03

-1.468E-05 | -4.274E-06 | -4.704E-05 -1.105E+00 -3.923E-04 2.317E-03 3.818E-05 1.194E-02 -6.629E-02 1.365E-05 -7.233E-02 -2.037E-05 2.073E-05 1.141E-07 3.506E-08 -5.973E-03 1.800E-04 8.795E-05 5.052E-06 2.980E-05 -4.490E-05 -9.839E-07 -5.192E-04 -9.062E-07 -3.418E-07 1.247E-06 | -2.440E-06 | 4.833E-08

-8.808E-06 | -5.609E-06 | 9.072E-04 3.037E-03 -6.748E+00 -4.925E-03 7.198E-02 -1.386E-03 4.398E-02 -1.137E-03 -1.730E-02 1.612E-03 -1.560E-03 -8.382E-04 -9.706E-04 2.600E-02 3.371E-02 2.128E-02 1.207E-03 3.484E-04 2.139E-02 2.665E-04 1.507E-04 -6.509E-05 7.364E-05 -8.847E-06 | 1.265E-03 | -3.516E-05

-2.284E-05 | 1.465E-06 | 2.046E-05 1.107E-01 -8.305E-04 -4.020E-01 2.255E-07 -7.036E-05 2.498E+01 -5.031E-08 3.183E-04 9.909E-08 -8.955E-08 -1.141E-09 5.052E-09 -3.989E-05 1.133E-08 -3.597E-02 -2.318E-08 -2.220E-07 5.302E-02 5.836E-09 2.289E-06 3.591E-09 2.187E-09 -4.711E-09 | 1.133E-07 | 1.637E-10

1.237E-03 | 9.190E-04 | -9.733E-02 4.224E-02 8.175E+02 1.085E+00 -1.355E+01 2.472E-01 -2.523E+01 2.500E-01 5.743E+01 1.219E-01 8.203E-01 7.099E-01 6.515E-02 -6.484E+00 -1.310E+01 -4.605E+00 -3.206E-01 -9.963E-02 -4.663E+00 -7.529E-01 -3.434E-01 1.597E-02 -1.723E-02 2.623E-03 | -2.731E+00 | 6.583E-02

-1.217E-03 | -1.011E-04 | 5.404E-03 1.074E+02 -1.069E+01 1.215E-01 1.711E-01 -7.844E+00 1.602E+02 -1.886E-01 7.121E+01 2.904E-01 -2.747E-01 -2.722E-02 -1.158E-03 -1.187E+00 -2.350E+00 -7.181E-01 -6.437E-02 -3.995E-02 -3.804E-01 1.875E-02 5.302E-01 1.114E-02 4.782E-03 -1.593E-02 | 6.480E-02 | -6.668E-04

3.257E-05 | -7.429E-07 | -4.298E-05 -3.219E-01 -2.683E-01 5.128E-01 -1.673E-02 5.262E-02 -4.661E+02 -2.158E-02 -4.103E+00 -3.577E-02 -1.048E-01 1.426E-01 1.341E-03 -7.865E-01 1.792E+00 -2.847E+00 4.703E-02 -1.499E-02 -3.872E+00 -2.976E-02 -5.900E-02 3.495E-03 2.681E-03 -6.034E-03 | -1.766E-01 | -1.515E-03

6.863E-05 | 1.267E+00 | -1.110E-06 -2.413E-02 2.939E-03 6.745E-05 -6.171E-05 2.501E-03 -4.482E-01 4.354E-05 1.726E+02 -1.282E-04 1.438E-06 1.503E-04 1.366E-06 -2.553E-04 2.381E-03 -2.355E-03 6.283E-05 -2.731E-07 -3.303E-03 -3.415E-05 1.236E+00 -2.397E-07 1.198E-06 -4.794E-07 | -6.830E-05 | -1.788E-06

1.081E-05 | -4.629E-07 | -3.962E-05 -2.314E+00 -6.938E-01 4.270E-03 1.366E-01 2.380E-01 -4.247E+01 1.122E-03 -2.411E+02 -4.104E-01 -4.071E-01 -3.931E-01 -1.162E-01 -1.631E+00 -9.907E+00 -5.072E-02 -1.127E-01 -5.142E-02 -1.414E-01 -1.638E+00 -3.365E+00 -5.393E-03 -4.814E-03 -5.144E-03 | -7.119E+00 | 1.165E-01

-3.327E-01 | 4.473E-01 | -6.607E-02 -8.482E+00 5.628E+02 -7.528E+00 3.442E+00 1.232E+01 -5.176E+03 1.618E+01 -5.162E+03 -7.908E+01 -3.155E+01 -2.921E+01 -1.047E+01 -9.881E+01 -8.873E+02 1.252E+02 -9.874E+00 -3.875E+00 1.142E+02 -1.480E+02 -1.851E+02 -7.013E-01 -3.595E-01 -4.318E-01 | -6.602E+02 | 1.057E+01

-3.284E-01 | -4.560E-01 | 6.380E-02 8.796E+00 -5.966E+02 1.021E+01 2.547E+01 -1.167E+01 -1.418E+04 -1.805E+01 -5.173E+03 -3.154E+01 -8.349E+01 -2.758E+01 -1.047E+01 -2.072E+02 -9.748E+02 -1.322E+02 -1.244E+01 -5.630E+00 -1.624E+02 -1.461E+02 -1.831E+02 -2.926E-01 -5.714E-01 -6.227E-01 | -6.572E+02 | 1.036E+01

6.650E-01 | 8.967E-03 | 3.159E-02 3.220E-01 -2.983E+02 -3.564E+00 2.186E+01 -1.290E+00 1.959E+04 1.004E+00 -4.955E+03 -2.934E+01 -2.743E+01 -8.579E+01 -1.065E+01 -1.214E+02 -8.791E+02 5.340E+01 -9.630E+00 -4.274E+00 9.494E+01 -1.466E+02 -1.821E+02 -5.802E-01 -4.776E-01 -4.538E-01 | -6.430E+02 | 1.060E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-6.547E+01 | | 7.715E+00 2.304E+05 -1.295E+03 -9.638E+02 -4.394E+01 2.566E+05 -1.484E+06 3.041E+02 -1.554E+06 -4.537E+02 4.598E+02 9.918E+00 -1.481E+00 4.014E+03 3.490E+03 1.851E+03 9.661E+01 6.371E+02 -1.294E+03 -2.293E+01 -1.116E+04 -1.887E+01 -8.072E+00 2.690E+01 | -6.122E+01 | 1.312E+00

2.717E+03 | | -2.323E+02 1.261E+03 2.199E+06 -8.457E+03 1.607E+05 -1.320E+03 6.747E+04 -2.012E+03 -2.807E+04 2.946E+03 -2.665E+03 -1.381E+03 4.150E+02 4.591E+04 6.657E+04 3.770E+04 2.221E+03 6.153E+02 3.787E+04 3.345E+02 1.478E+02 -1.151E+02 1.302E+02 -1.538E+01 | 1.755E+03 | -5.077E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 220.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-2.303E-03 | 2.735E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-6.230E-06 | 8.035E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-5.854E-06 | 1.591E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.698E-06 | -5.381E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

9.449E-04 | 6.954E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.699E-04 | -4.724E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.527E-06 | -8.684E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 2.269E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

3.449E-07 | 4.346E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

3.954E-01 | 2.983E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.943E-01 | 1.700E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

9.956E-02 | -3.746E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-2.744E-04 | -2.303E-03 | 1.784E-02 7.602E-02 -2.148E+02 -1.689E-01 2.416E+00 -4.724E-02 1.391E+00 -3.912E-02 -6.135E-01 5.164E-02 -6.147E-02 -1.769E-02 -3.908E-02 8.966E-01 1.383E+00 7.313E-01 4.138E-02 1.202E-02 7.348E-01 9.757E-03 5.643E-03 -1.926E-03 2.691E-03 -7.679E-04 | 4.392E-02 | -1.221E-03

-1.413E-05 | -6.230E-06 | -4.704E-05 -1.105E+00 -3.909E-04 2.317E-03 3.814E-05 1.194E-02 -6.631E-02 1.371E-05 -7.233E-02 -1.801E-05 2.248E-05 -3.999E-06 3.105E-08 -5.972E-03 1.783E-04 8.774E-05 5.044E-06 2.980E-05 -4.500E-05 -1.004E-06 -5.192E-04 -1.051E-06 -1.184E-07 1.169E-06 | -2.520E-06 | 5.220E-08

8.739E-06 | -5.854E-06 | 9.072E-04 2.969E-03 -6.747E+00 -4.933E-03 7.197E-02 -1.387E-03 4.033E-02 -1.138E-03 -1.730E-02 1.507E-03 -1.784E-03 -5.096E-04 -9.708E-04 2.608E-02 3.386E-02 2.129E-02 1.208E-03 3.495E-04 2.138E-02 2.770E-04 1.612E-04 -5.604E-05 7.830E-05 -2.234E-05 | 1.254E-03 | -3.496E-05

-2.179E-05 | -1.698E-06 | 2.013E-05 1.105E-01 -8.143E-04 -4.020E-01 3.517E-07 -7.036E-05 2.498E+01 -6.467E-08 3.188E-04 8.821E-08 -1.074E-07 2.081E-08 3.017E-09 -3.966E-05 -1.143E-07 -3.597E-02 -2.032E-08 -2.231E-07 5.302E-02 -4.039E-09 2.279E-06 3.343E-09 4.169E-10 -4.301E-09 | 5.107E-08 | 3.092E-10

-1.307E-03 | 9.449E-04 | -9.732E-02 4.986E-02 8.175E+02 1.087E+00 -1.354E+01 2.475E-01 -2.440E+01 2.502E-01 5.743E+01 1.402E-01 8.746E-01 6.371E-01 6.530E-02 -6.502E+00 -1.314E+01 -4.607E+00 -3.208E-01 -9.985E-02 -4.663E+00 -7.552E-01 -3.457E-01 1.379E-02 -1.833E-02 5.855E-03 | -2.726E+00 | 6.575E-02

-1.171E-03 | -2.699E-04 | 5.405E-03 1.074E+02 -1.069E+01 1.197E-01 1.715E-01 -7.844E+00 1.602E+02 -1.892E-01 7.121E+01 2.613E-01 -3.026E-01 2.970E-02 -1.102E-03 -1.193E+00 -2.356E+00 -7.180E-01 -6.426E-02 -3.997E-02 -3.802E-01 1.910E-02 5.305E-01 1.303E-02 1.968E-03 -1.502E-02 | 6.709E-02 | -7.085E-04

-9.147E-06 | 1.527E-06 | -4.122E-05 -3.217E-01 -2.781E-01 5.083E-01 -1.655E-02 5.264E-02 -4.668E+02 -2.093E-02 -4.109E+00 -6.023E-02 -8.564E-02 1.478E-01 1.299E-03 -7.615E-01 1.804E+00 -2.839E+00 4.698E-02 -1.472E-02 -3.867E+00 -2.985E-02 -5.914E-02 4.334E-03 1.663E-03 -5.854E-03 | -1.742E-01 | -1.602E-03

7.595E-05 | 1.267E+00 | -1.366E-06 -2.414E-02 2.941E-03 2.817E-05 -6.216E-05 2.504E-03 -4.490E-01 6.062E-05 1.726E+02 -1.445E-04 2.181E-05 1.158E-04 1.451E-06 -2.314E-04 2.390E-03 -2.345E-03 6.305E-05 -8.192E-07 -3.299E-03 -3.244E-05 1.236E+00 0.000E+00 9.587E-07 -2.397E-07 | -2.561E-04 | -1.192E-06

-6.549E-06 | 3.449E-07 | -3.919E-05 -2.314E+00 -6.939E-01 3.315E-03 1.366E-01 2.380E-01 -4.254E+01 1.129E-03 -2.411E+02 -4.117E-01 -4.053E-01 -3.935E-01 -1.161E-01 -1.626E+00 -9.916E+00 -4.976E-02 -1.126E-01 -5.140E-02 -1.406E-01 -1.638E+00 -3.365E+00 -5.345E-03 -4.805E-03 -5.200E-03 | -7.121E+00 | 1.167E-01

-4.190E-01 | 3.954E-01 | -6.163E-02 -7.508E+00 5.222E+02 -5.985E+00 4.011E+00 1.111E+01 -8.490E+03 1.404E+01 -5.183E+03 -7.968E+01 -3.207E+01 -2.812E+01 -1.045E+01 -1.084E+02 -8.988E+02 1.041E+02 -1.017E+01 -4.030E+00 8.605E+01 -1.479E+02 -1.851E+02 -6.563E-01 -3.523E-01 -4.809E-01 | -6.618E+02 | 1.056E+01

-2.276E-01 | -4.943E-01 | 7.283E-02 9.557E+00 -6.756E+02 1.032E+01 2.720E+01 -1.288E+01 -1.151E+04 -1.932E+01 -5.151E+03 -3.207E+01 -8.266E+01 -2.814E+01 -1.048E+01 -2.078E+02 -9.745E+02 -1.360E+02 -1.239E+01 -5.651E+00 -1.605E+02 -1.460E+02 -1.828E+02 -2.827E-01 -6.171E-01 -5.895E-01 | -6.556E+02 | 1.039E+01

6.482E-01 | 9.956E-02 | 1.816E-02 -1.408E+00 -1.785E+02 -5.372E+00 1.955E+01 1.128E+00 2.023E+04 4.397E+00 -4.955E+03 -2.822E+01 -2.798E+01 -8.605E+01 -1.064E+01 -1.106E+02 -8.709E+02 7.836E+01 -9.345E+00 -4.103E+00 1.213E+02 -1.468E+02 -1.823E+02 -6.216E-01 -4.366E-01 -4.535E-01 | -6.438E+02 | 1.064E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-7.256E+01 | | 7.714E+00 2.304E+05 -1.282E+03 -9.681E+02 -4.462E+01 2.566E+05 -1.484E+06 3.054E+02 -1.554E+06 -4.020E+02 4.997E+02 -8.166E+01 -1.558E+00 4.019E+03 3.497E+03 1.849E+03 9.645E+01 6.371E+02 -1.295E+03 -2.348E+01 -1.116E+04 -2.204E+01 -3.315E+00 2.533E+01 | -6.507E+01 | 1.417E+00

2.729E+03 | | -2.324E+02 1.286E+03 2.200E+06 -8.480E+03 1.606E+05 -1.322E+03 6.096E+04 -2.014E+03 -2.806E+04 2.760E+03 -3.060E+03 -7.996E+02 4.147E+02 4.605E+04 6.683E+04 3.770E+04 2.223E+03 6.172E+02 3.786E+04 3.530E+02 1.665E+02 -9.909E+01 1.384E+02 -3.923E+01 | 1.735E+03 | -5.042E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 230.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-2.330E-03 | 2.732E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-8.081E-06 | -1.838E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.339E-06 | 1.584E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.170E-06 | -5.382E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

7.275E-04 | 7.071E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-3.970E-04 | -5.190E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

3.316E-06 | -8.650E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 2.443E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.157E-06 | 3.622E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

3.320E-01 | 3.485E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-5.179E-01 | 1.001E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.864E-01 | -3.548E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-2.536E-05 | -2.330E-03 | 1.784E-02 7.707E-02 -2.148E+02 -1.700E-01 2.415E+00 -4.727E-02 1.124E+00 -3.904E-02 -6.147E-01 4.616E-02 -6.759E-02 -6.077E-03 -3.910E-02 9.046E-01 1.390E+00 7.323E-01 4.141E-02 1.211E-02 7.352E-01 1.002E-02 5.890E-03 -1.554E-03 2.768E-03 -1.209E-03 | 4.245E-02 | -1.276E-03

-1.310E-05 | -8.081E-06 | -4.704E-05 -1.105E+00 -3.846E-04 2.307E-03 3.812E-05 1.194E-02 -6.634E-02 1.373E-05 -7.233E-02 -1.510E-05 2.356E-05 -7.983E-06 2.164E-08 -5.971E-03 1.774E-04 8.864E-05 5.032E-06 2.980E-05 -4.520E-05 -1.011E-06 -5.192E-04 -1.163E-06 1.096E-07 1.055E-06 | -3.224E-06 | 5.528E-08

1.642E-05 | -4.339E-06 | 9.072E-04 2.997E-03 -6.747E+00 -4.966E-03 7.197E-02 -1.388E-03 3.257E-02 -1.136E-03 -1.733E-02 1.348E-03 -1.962E-03 -1.716E-04 -9.714E-04 2.632E-02 3.406E-02 2.131E-02 1.209E-03 3.521E-04 2.139E-02 2.845E-04 1.684E-04 -4.520E-05 8.055E-05 -3.517E-05 | 1.211E-03 | -3.656E-05

-1.292E-05 | -4.170E-06 | 1.952E-05 1.103E-01 -8.131E-04 -4.020E-01 5.349E-07 -7.037E-05 2.498E+01 -5.853E-08 3.195E-04 7.477E-08 -1.125E-07 3.504E-08 1.677E-09 -3.941E-05 -2.235E-07 -3.597E-02 -1.772E-08 -2.247E-07 5.302E-02 4.429E-09 2.292E-06 4.798E-09 1.097E-10 -4.312E-09 | -9.679E-08 | -1.137E-10

-2.189E-03 | 7.275E-04 | -9.732E-02 4.551E-02 8.174E+02 1.094E+00 -1.354E+01 2.478E-01 -2.267E+01 2.499E-01 5.743E+01 1.713E-01 9.193E-01 5.612E-01 6.547E-02 -6.555E+00 -1.318E+01 -4.615E+00 -3.209E-01 -1.004E-01 -4.668E+00 -7.559E-01 -3.463E-01 1.119E-02 -1.886E-02 8.925E-03 | -2.713E+00 | 6.599E-02

-5.812E-04 | -3.970E-04 | 5.406E-03 1.074E+02 -1.070E+01 1.213E-01 1.718E-01 -7.845E+00 1.605E+02 -1.896E-01 7.121E+01 2.242E-01 -3.214E-01 8.554E-02 -9.784E-04 -1.212E+00 -2.365E+00 -7.177E-01 -6.408E-02 -3.996E-02 -3.790E-01 1.937E-02 5.308E-01 1.452E-02 -9.161E-04 -1.364E-02 | 7.454E-02 | -7.685E-04

3.840E-05 | 3.316E-06 | -3.834E-05 -3.217E-01 -2.960E-01 5.044E-01 -1.608E-02 5.271E-02 -4.673E+02 -2.029E-02 -4.115E+00 -8.283E-02 -6.379E-02 1.485E-01 1.285E-03 -7.439E-01 1.810E+00 -2.831E+00 4.684E-02 -1.450E-02 -3.859E+00 -3.052E-02 -5.985E-02 5.042E-03 5.888E-04 -5.496E-03 | -1.732E-01 | -1.528E-03

6.145E-05 | 1.267E+00 | -1.281E-06 -2.411E-02 2.889E-03 6.830E-06 -5.789E-05 2.508E-03 -4.493E-01 2.134E-05 1.726E+02 -1.510E-04 4.866E-05 1.062E-04 1.708E-06 -2.083E-04 2.409E-03 -2.341E-03 6.328E-05 -5.461E-07 -3.296E-03 -3.159E-05 1.236E+00 4.794E-07 7.190E-07 -2.397E-07 | -2.817E-04 | -1.192E-06

-4.884E-06 | -1.157E-06 | -3.927E-05 -2.314E+00 -6.950E-01 2.584E-03 1.366E-01 2.380E-01 -4.261E+01 1.306E-03 -2.411E+02 -4.128E-01 -4.035E-01 -3.943E-01 -1.160E-01 -1.623E+00 -9.920E+00 -4.945E-02 -1.124E-01 -5.133E-02 -1.405E-01 -1.637E+00 -3.364E+00 -5.290E-03 -4.809E-03 -5.252E-03 | -7.119E+00 | 1.166E-01

-5.005E-01 | 3.320E-01 | -5.502E-02 -6.310E+00 4.621E+02 -4.321E+00 4.978E+00 9.564E+00 -1.155E+04 1.149E+01 -5.201E+03 -8.056E+01 -3.227E+01 -2.713E+01 -1.042E+01 -1.187E+02 -9.101E+02 8.023E+01 -1.048E+01 -4.193E+00 5.568E+01 -1.477E+02 -1.851E+02 -6.030E-01 -3.635E-01 -5.206E-01 | -6.627E+02 | 1.052E+01

-1.119E-01 | -5.179E-01 | 7.993E-02 1.004E+01 -7.376E+02 1.023E+01 2.862E+01 -1.371E+01 -8.469E+03 -2.001E+01 -5.127E+03 -3.226E+01 -8.190E+01 -2.893E+01 -1.049E+01 -2.071E+02 -9.722E+02 -1.354E+02 -1.228E+01 -5.641E+00 -1.534E+02 -1.459E+02 -1.825E+02 -2.890E-01 -6.549E-01 -5.484E-01 | -6.535E+02 | 1.039E+01

6.104E-01 | 1.864E-01 | 4.407E-03 -3.080E+00 -5.633E+01 -7.038E+00 1.716E+01 3.499E+00 2.024E+04 7.650E+00 -4.960E+03 -2.722E+01 -2.876E+01 -8.596E+01 -1.063E+01 -1.004E+02 -8.632E+02 1.015E+02 -9.091E+00 -3.939E+00 1.444E+02 -1.469E+02 -1.825E+02 -6.529E-01 -3.889E-01 -4.695E-01 | -6.445E+02 | 1.065E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-8.557E+01 | | 7.717E+00 2.304E+05 -1.271E+03 -9.725E+02 -4.526E+01 2.566E+05 -1.484E+06 3.061E+02 -1.554E+06 -3.378E+02 5.245E+02 -1.705E+02 -1.760E+00 4.046E+03 3.511E+03 1.846E+03 9.617E+01 6.370E+02 -1.299E+03 -2.369E+01 -1.116E+04 -2.459E+01 1.575E+00 2.300E+01 | -7.764E+01 | 1.472E+00

2.740E+03 | | -2.324E+02 1.279E+03 2.200E+06 -8.536E+03 1.606E+05 -1.324E+03 4.718E+04 -2.010E+03 -2.812E+04 2.478E+03 -3.374E+03 -2.020E+02 4.137E+02 4.647E+04 6.720E+04 3.775E+04 2.225E+03 6.219E+02 3.788E+04 3.665E+02 1.794E+02 -7.996E+01 1.424E+02 -6.192E+01 | 1.659E+03 | -5.327E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 240.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-2.313E-03 | 2.729E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-9.807E-06 | -1.417E-06 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.462E-06 | 1.580E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-5.071E-06 | -5.382E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

3.244E-04 | 7.146E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.525E-04 | -5.783E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

3.967E-06 | -8.598E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 2.618E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.241E-08 | 2.614E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.586E-01 | 3.893E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-5.256E-01 | 2.807E-02 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.675E-01 | -3.235E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

3.339E-04 | -2.313E-03 | 1.784E-02 7.805E-02 -2.148E+02 -1.713E-01 2.415E+00 -4.729E-02 7.875E-01 -3.881E-02 -6.170E-01 3.897E-02 -7.194E-02 5.474E-03 -3.909E-02 9.152E-01 1.396E+00 7.341E-01 4.147E-02 1.227E-02 7.363E-01 9.855E-03 5.713E-03 -1.131E-03 2.758E-03 -1.612E-03 | 4.245E-02 | -1.318E-03

-1.217E-05 | -9.807E-06 | -4.705E-05 -1.105E+00 -3.819E-04 2.314E-03 3.809E-05 1.194E-02 -6.637E-02 1.377E-05 -7.233E-02 -1.173E-05 2.393E-05 -1.171E-05 2.620E-08 -5.969E-03 1.776E-04 9.051E-05 5.039E-06 2.983E-05 -4.534E-05 -1.045E-06 -5.193E-04 -1.241E-06 3.340E-07 9.099E-07 | -3.304E-06 | 4.934E-08

2.723E-05 | -1.462E-06 | 9.072E-04 3.020E-03 -6.747E+00 -5.003E-03 7.196E-02 -1.388E-03 2.280E-02 -1.129E-03 -1.740E-02 1.139E-03 -2.088E-03 1.645E-04 -9.712E-04 2.663E-02 3.425E-02 2.137E-02 1.211E-03 3.567E-04 2.143E-02 2.798E-04 1.633E-04 -3.291E-05 8.026E-05 -4.689E-05 | 1.211E-03 | -3.777E-05

4.730E-08 | -5.071E-06 | 1.890E-05 1.102E-01 -7.943E-04 -4.020E-01 7.729E-07 -7.038E-05 2.498E+01 -1.090E-07 3.198E-04 7.296E-08 -1.295E-07 4.917E-08 -1.152E-09 -3.921E-05 -4.211E-07 -3.597E-02 -1.531E-08 -2.235E-07 5.302E-02 5.395E-10 2.290E-06 4.416E-09 -1.262E-09 -3.998E-09 | 1.108E-07 | -1.723E-11

-3.914E-03 | 3.244E-04 | -9.732E-02 4.139E-02 8.174E+02 1.103E+00 -1.354E+01 2.479E-01 -2.048E+01 2.483E-01 5.745E+01 2.142E-01 9.528E-01 4.848E-01 6.549E-02 -6.626E+00 -1.323E+01 -4.630E+00 -3.213E-01 -1.014E-01 -4.678E+00 -7.533E-01 -3.436E-01 8.252E-03 -1.878E-02 1.173E-02 | -2.713E+00 | 6.627E-02

-2.202E-04 | -4.525E-04 | 5.407E-03 1.074E+02 -1.070E+01 1.228E-01 1.720E-01 -7.845E+00 1.608E+02 -1.903E-01 7.122E+01 1.802E-01 -3.305E-01 1.386E-01 -1.038E-03 -1.236E+00 -2.374E+00 -7.183E-01 -6.413E-02 -4.032E-02 -3.783E-01 1.983E-02 5.313E-01 1.558E-02 -3.774E-03 -1.186E-02 | 7.537E-02 | -7.140E-04

-3.295E-05 | 3.967E-06 | -3.481E-05 -3.217E-01 -3.172E-01 5.020E-01 -1.545E-02 5.281E-02 -4.674E+02 -1.986E-02 -4.119E+00 -1.028E-01 -3.993E-02 1.446E-01 1.264E-03 -7.382E-01 1.806E+00 -2.823E+00 4.661E-02 -1.446E-02 -3.851E+00 -3.109E-02 -6.045E-02 5.593E-03 -5.048E-04 -4.965E-03 | -1.744E-01 | -1.425E-03

4.527E-05 | 1.267E+00 | -1.281E-06 -2.410E-02 2.881E-03 -1.110E-05 -6.305E-05 2.501E-03 -4.496E-01 5.208E-05 1.726E+02 -1.496E-04 7.095E-05 7.598E-05 1.622E-06 -1.964E-04 2.404E-03 -2.332E-03 6.328E-05 -5.461E-07 -3.285E-03 -3.415E-05 1.236E+00 0.000E+00 4.794E-07 0.000E+00 | 2.561E-05 | 2.980E-07

1.294E-05 | -2.241E-08 | -3.902E-05 -2.314E+00 -6.968E-01 1.817E-03 1.367E-01 2.380E-01 -4.266E+01 1.282E-03 -2.411E+02 -4.136E-01 -4.016E-01 -3.953E-01 -1.160E-01 -1.622E+00 -9.922E+00 -4.848E-02 -1.124E-01 -5.134E-02 -1.396E-01 -1.636E+00 -3.363E+00 -5.227E-03 -4.823E-03 -5.295E-03 | -7.115E+00 | 1.165E-01

-5.644E-01 | 2.586E-01 | -4.638E-02 -4.916E+00 3.843E+02 -2.582E+00 6.320E+00 7.717E+00 -1.425E+04 8.579E+00 -5.217E+03 -8.161E+01 -3.213E+01 -2.636E+01 -1.041E+01 -1.299E+02 -9.213E+02 5.450E+01 -1.080E+01 -4.374E+00 2.421E+01 -1.475E+02 -1.849E+02 -5.472E-01 -3.914E-01 -5.461E-01 | -6.631E+02 | 1.049E+01

-1.423E-03 | -5.256E-01 | 8.489E-02 1.022E+01 -7.804E+02 9.885E+00 2.968E+01 -1.412E+01 -5.160E+03 -2.012E+01 -5.103E+03 -3.210E+01 -8.132E+01 -2.985E+01 -1.051E+01 -2.052E+02 -9.682E+02 -1.303E+02 -1.214E+01 -5.613E+00 -1.413E+02 -1.457E+02 -1.821E+02 -3.103E-01 -6.800E-01 -5.046E-01 | -6.512E+02 | 1.040E+01

5.658E-01 | 2.675E-01 | -9.193E-03 -4.652E+00 6.430E+01 -8.581E+00 1.475E+01 5.753E+00 1.963E+04 1.066E+01 -4.970E+03 -2.645E+01 -2.967E+01 -8.550E+01 -1.062E+01 -9.131E+01 -8.566E+02 1.223E+02 -8.891E+00 -3.791E+00 1.639E+02 -1.470E+02 -1.827E+02 -6.697E-01 -3.398E-01 -4.997E-01 | -6.452E+02 | 1.065E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.020E+02 | | 7.715E+00 2.304E+05 -1.266E+03 -9.811E+02 -4.597E+01 2.566E+05 -1.485E+06 3.069E+02 -1.554E+06 -2.634E+02 5.335E+02 -2.538E+02 -1.658E+00 4.085E+03 3.527E+03 1.845E+03 9.630E+01 6.376E+02 -1.302E+03 -2.439E+01 -1.116E+04 -2.635E+01 6.415E+00 2.000E+01 | -7.961E+01 | 1.339E+00

2.748E+03 | | -2.324E+02 1.270E+03 2.200E+06 -8.611E+03 1.606E+05 -1.324E+03 2.982E+04 -1.998E+03 -2.824E+04 2.107E+03 -3.597E+03 3.922E+02 4.141E+02 4.701E+04 6.754E+04 3.784E+04 2.228E+03 6.301E+02 3.794E+04 3.586E+02 1.706E+02 -5.824E+01 1.420E+02 -8.266E+01 | 1.659E+03 | -5.541E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 250.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-2.271E-03 | 2.726E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.137E-05 | -2.878E-06 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.170E-06 | 1.580E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.160E-06 | -5.383E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.866E-04 | 7.155E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.403E-04 | -6.405E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

3.396E-06 | -8.546E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 2.793E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-5.811E-07 | 2.592E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.769E-01 | 4.193E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-5.176E-01 | -4.394E-02 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

3.407E-01 | -2.815E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

2.474E-04 | -2.271E-03 | 1.784E-02 7.685E-02 -2.148E+02 -1.729E-01 2.415E+00 -4.727E-02 4.723E-01 -3.862E-02 -6.199E-01 3.029E-02 -7.438E-02 1.657E-02 -3.909E-02 9.259E-01 1.401E+00 7.370E-01 4.146E-02 1.229E-02 7.385E-01 9.622E-03 5.458E-03 -6.747E-04 2.641E-03 -1.964E-03 | 4.155E-02 | -1.231E-03

-1.054E-05 | -1.137E-05 | -4.705E-05 -1.105E+00 -3.680E-04 2.300E-03 3.808E-05 1.194E-02 -6.640E-02 1.382E-05 -7.233E-02 -7.996E-06 2.356E-05 -1.509E-05 3.083E-08 -5.967E-03 1.790E-04 9.304E-05 5.049E-06 2.984E-05 -4.530E-05 -1.042E-06 -5.193E-04 -1.281E-06 5.457E-07 7.374E-07 | -3.247E-06 | 5.117E-08

2.459E-05 | 2.170E-06 | 9.072E-04 2.975E-03 -6.747E+00 -5.049E-03 7.197E-02 -1.388E-03 1.366E-02 -1.124E-03 -1.748E-02 8.861E-04 -2.159E-03 4.873E-04 -9.712E-04 2.694E-02 3.439E-02 2.145E-02 1.211E-03 3.574E-04 2.149E-02 2.731E-04 1.559E-04 -1.963E-05 7.684E-05 -5.712E-05 | 1.184E-03 | -3.523E-05

1.301E-05 | -4.160E-06 | 1.798E-05 1.100E-01 -7.706E-04 -4.020E-01 1.055E-06 -7.044E-05 2.498E+01 -9.704E-08 3.200E-04 5.343E-08 -1.442E-07 6.847E-08 -4.372E-09 -3.912E-05 -6.250E-07 -3.597E-02 -1.288E-08 -2.229E-07 5.302E-02 -1.472E-09 2.290E-06 4.462E-09 -1.203E-09 -4.188E-09 | 2.633E-07 | 1.774E-10

-3.340E-03 | -1.866E-04 | -9.732E-02 4.548E-02 8.175E+02 1.113E+00 -1.354E+01 2.478E-01 -1.843E+01 2.472E-01 5.747E+01 2.674E-01 9.741E-01 4.104E-01 6.559E-02 -6.698E+00 -1.326E+01 -4.650E+00 -3.211E-01 -1.014E-01 -4.694E+00 -7.505E-01 -3.406E-01 5.072E-03 -1.796E-02 1.418E-02 | -2.702E+00 | 6.549E-02

4.050E-04 | -4.403E-04 | 5.407E-03 1.074E+02 -1.070E+01 1.279E-01 1.720E-01 -7.845E+00 1.611E+02 -1.907E-01 7.122E+01 1.306E-01 -3.296E-01 1.874E-01 -1.094E-03 -1.261E+00 -2.382E+00 -7.210E-01 -6.422E-02 -4.054E-02 -3.794E-01 1.980E-02 5.313E-01 1.617E-02 -6.485E-03 -9.726E-03 | 7.352E-02 | -7.235E-04

2.990E-05 | 3.396E-06 | -3.117E-05 -3.217E-01 -3.360E-01 5.022E-01 -1.481E-02 5.291E-02 -4.671E+02 -1.983E-02 -4.120E+00 -1.195E-01 -1.479E-02 1.361E-01 1.222E-03 -7.440E-01 1.794E+00 -2.815E+00 4.633E-02 -1.450E-02 -3.843E+00 -3.143E-02 -6.080E-02 5.975E-03 -1.569E-03 -4.281E-03 | -1.768E-01 | -1.394E-03

4.404E-05 | 1.267E+00 | -1.281E-06 -2.413E-02 2.856E-03 2.134E-05 -6.934E-05 2.495E-03 -4.494E-01 6.489E-05 1.726E+02 -1.498E-04 9.539E-05 6.040E-05 1.281E-06 -1.921E-04 2.388E-03 -2.326E-03 6.283E-05 -8.192E-07 -3.281E-03 -3.244E-05 1.236E+00 7.190E-07 2.397E-07 -1.198E-06 | -8.538E-05 | -1.192E-06

-1.626E-05 | -5.811E-07 | -3.868E-05 -2.314E+00 -6.983E-01 1.385E-03 1.368E-01 2.380E-01 -4.267E+01 1.300E-03 -2.411E+02 -4.141E-01 -3.999E-01 -3.966E-01 -1.160E-01 -1.624E+00 -9.921E+00 -4.573E-02 -1.123E-01 -5.113E-02 -1.369E-01 -1.635E+00 -3.362E+00 -5.169E-03 -4.806E-03 -5.325E-03 | -7.110E+00 | 1.162E-01

-6.186E-01 | 1.769E-01 | -3.601E-02 -3.363E+00 2.913E+02 -7.443E-01 7.992E+00 5.628E+00 -1.650E+04 5.395E+00 -5.228E+03 -8.271E+01 -3.166E+01 -2.591E+01 -1.040E+01 -1.417E+02 -9.318E+02 2.782E+01 -1.111E+01 -4.544E+00 -7.253E+00 -1.473E+02 -1.848E+02 -4.956E-01 -4.291E-01 -5.547E-01 | -6.631E+02 | 1.044E+01

1.181E-01 | -5.176E-01 | 8.753E-02 1.009E+01 -8.026E+02 9.314E+00 3.035E+01 -1.410E+01 -1.686E+03 -1.963E+01 -5.078E+03 -3.162E+01 -8.099E+01 -3.079E+01 -1.053E+01 -2.016E+02 -9.621E+02 -1.210E+02 -1.195E+01 -5.528E+00 -1.246E+02 -1.456E+02 -1.818E+02 -3.443E-01 -6.846E-01 -4.637E-01 | -6.489E+02 | 1.039E+01

4.937E-01 | 3.407E-01 | -2.218E-02 -6.072E+00 1.794E+02 -9.950E+00 1.242E+01 7.823E+00 1.840E+04 1.336E+01 -4.983E+03 -2.599E+01 -3.060E+01 -8.472E+01 -1.060E+01 -8.337E+01 -8.513E+02 1.402E+02 -8.744E+00 -3.649E+00 1.793E+02 -1.471E+02 -1.829E+02 -6.704E-01 -2.933E-01 -5.412E-01 | -6.460E+02 | 1.063E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.194E+02 | | 7.713E+00 2.304E+05 -1.267E+03 -9.851E+02 -4.635E+01 2.566E+05 -1.485E+06 3.077E+02 -1.554E+06 -1.807E+02 5.264E+02 -3.294E+02 -1.552E+00 4.126E+03 3.542E+03 1.846E+03 9.654E+01 6.380E+02 -1.302E+03 -2.428E+01 -1.116E+04 -2.734E+01 1.102E+01 1.639E+01 | -7.738E+01 | 1.382E+00

2.749E+03 | | -2.324E+02 1.281E+03 2.200E+06 -8.698E+03 1.606E+05 -1.323E+03 1.354E+04 -1.988E+03 -2.839E+04 1.660E+03 -3.722E+03 9.629E+02 4.140E+02 4.756E+04 6.777E+04 3.799E+04 2.227E+03 6.312E+02 3.805E+04 3.469E+02 1.577E+02 -3.476E+01 1.360E+02 -1.008E+02 | 1.614E+03 | -5.096E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 260.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-2.256E-03 | 2.723E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.272E-05 | -4.539E-06 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

4.919E-06 | 1.585E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.609E-06 | -5.384E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-5.843E-04 | 7.101E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-3.750E-04 | -6.971E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.929E-06 | -8.503E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 2.967E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.042E-06 | 2.367E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

8.958E-02 | 4.377E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.935E-01 | -1.138E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

4.041E-01 | -2.301E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-3.849E-05 | -2.256E-03 | 1.784E-02 7.561E-02 -2.148E+02 -1.751E-01 2.416E+00 -4.724E-02 2.634E-01 -3.847E-02 -6.226E-01 2.044E-02 -7.483E-02 2.684E-02 -3.910E-02 9.347E-01 1.403E+00 7.407E-01 4.137E-02 1.227E-02 7.418E-01 9.520E-03 5.335E-03 -1.968E-04 2.439E-03 -2.255E-03 | 4.010E-02 | -1.149E-03

-8.780E-06 | -1.272E-05 | -4.706E-05 -1.105E+00 -3.616E-04 2.298E-03 3.809E-05 1.194E-02 -6.642E-02 1.378E-05 -7.233E-02 -4.013E-06 2.249E-05 -1.799E-05 3.120E-08 -5.965E-03 1.812E-04 9.513E-05 5.047E-06 2.984E-05 -4.507E-05 -1.028E-06 -5.193E-04 -1.284E-06 7.398E-07 5.431E-07 | -3.254E-06 | 5.553E-08

1.537E-05 | 4.919E-06 | 9.072E-04 2.929E-03 -6.748E+00 -5.116E-03 7.197E-02 -1.387E-03 7.602E-03 -1.119E-03 -1.756E-02 5.994E-04 -2.172E-03 7.861E-04 -9.713E-04 2.719E-02 3.445E-02 2.156E-02 1.208E-03 3.567E-04 2.158E-02 2.701E-04 1.523E-04 -5.723E-06 7.095E-05 -6.559E-05 | 1.142E-03 | -3.285E-05

2.359E-05 | -1.609E-06 | 1.706E-05 1.100E-01 -7.523E-04 -4.020E-01 1.310E-06 -7.049E-05 2.498E+01 -7.975E-08 3.198E-04 3.204E-08 -1.344E-07 9.412E-08 -7.183E-09 -3.915E-05 -8.058E-07 -3.597E-02 -8.224E-09 -2.202E-07 5.302E-02 5.472E-09 2.294E-06 5.288E-09 -1.536E-09 -3.511E-09 | 1.561E-07 | -3.820E-10

-2.454E-03 | -5.843E-04 | -9.732E-02 4.989E-02 8.175E+02 1.126E+00 -1.354E+01 2.476E-01 -1.706E+01 2.463E-01 5.749E+01 3.290E-01 9.824E-01 3.406E-01 6.570E-02 -6.755E+00 -1.327E+01 -4.675E+00 -3.204E-01 -1.012E-01 -4.716E+00 -7.489E-01 -3.389E-01 1.743E-03 -1.654E-02 1.620E-02 | -2.688E+00 | 6.477E-02

4.807E-04 | -3.750E-04 | 5.407E-03 1.074E+02 -1.069E+01 1.329E-01 1.718E-01 -7.844E+00 1.613E+02 -1.904E-01 7.122E+01 7.685E-02 -3.189E-01 2.303E-01 -1.097E-03 -1.281E+00 -2.385E+00 -7.247E-01 -6.418E-02 -4.049E-02 -3.819E-01 1.967E-02 5.312E-01 1.629E-02 -8.994E-03 -7.305E-03 | 7.279E-02 | -7.513E-04

-5.042E-05 | 2.929E-06 | -2.846E-05 -3.217E-01 -3.471E-01 5.047E-01 -1.435E-02 5.298E-02 -4.665E+02 -1.995E-02 -4.117E+00 -1.324E-01 1.080E-02 1.234E-01 1.200E-03 -7.610E-01 1.775E+00 -2.813E+00 4.609E-02 -1.459E-02 -3.839E+00 -3.198E-02 -6.132E-02 6.173E-03 -2.559E-03 -3.470E-03 | -1.735E-01 | -1.482E-03

4.206E-05 | 1.267E+00 | -1.451E-06 -2.412E-02 2.843E-03 3.074E-05 -6.844E-05 2.493E-03 -4.490E-01 4.610E-05 1.726E+02 -1.524E-04 1.191E-04 3.403E-05 1.708E-06 -1.981E-04 2.396E-03 -2.325E-03 6.193E-05 2.731E-07 -3.274E-03 -2.988E-05 1.236E+00 4.794E-07 4.794E-07 -7.190E-07 | -3.415E-05 | -1.490E-06

2.214E-05 | 1.042E-06 | -3.825E-05 -2.314E+00 -6.995E-01 1.531E-03 1.369E-01 2.380E-01 -4.263E+01 1.390E-03 -2.411E+02 -4.142E-01 -3.982E-01 -3.981E-01 -1.159E-01 -1.626E+00 -9.909E+00 -4.479E-02 -1.122E-01 -5.090E-02 -1.360E-01 -1.635E+00 -3.362E+00 -5.109E-03 -4.785E-03 -5.353E-03 | -7.106E+00 | 1.158E-01

-6.479E-01 | 8.958E-02 | -2.426E-02 -1.705E+00 1.863E+02 1.184E+00 9.936E+00 3.359E+00 -1.823E+04 2.036E+00 -5.236E+03 -8.374E+01 -3.096E+01 -2.582E+01 -1.039E+01 -1.537E+02 -9.409E+02 6.849E-01 -1.139E+01 -4.712E+00 -3.808E+01 -1.471E+02 -1.846E+02 -4.534E-01 -4.735E-01 -5.463E-01 | -6.630E+02 | 1.038E+01

2.300E-01 | -4.935E-01 | 8.776E-02 9.653E+00 -8.035E+02 8.463E+00 3.060E+01 -1.366E+01 1.837E+03 -1.853E+01 -5.054E+03 -3.089E+01 -8.096E+01 -3.162E+01 -1.055E+01 -1.962E+02 -9.535E+02 -1.079E+02 -1.171E+01 -5.412E+00 -1.041E+02 -1.456E+02 -1.816E+02 -3.859E-01 -6.719E-01 -4.316E-01 | -6.469E+02 | 1.037E+01

4.243E-01 | 4.041E-01 | -3.414E-02 -7.307E+00 2.853E+02 -1.105E+01 1.024E+01 9.651E+00 1.660E+04 1.565E+01 -5.000E+03 -2.590E+01 -3.141E+01 -8.369E+01 -1.059E+01 -7.695E+01 -8.471E+02 1.545E+02 -8.661E+00 -3.533E+00 1.898E+02 -1.473E+02 -1.832E+02 -6.538E-01 -2.571E-01 -5.888E-01 | -6.475E+02 | 1.061E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.351E+02 | | 7.716E+00 2.304E+05 -1.275E+03 -9.892E+02 -4.616E+01 2.566E+05 -1.486E+06 3.069E+02 -1.554E+06 -9.250E+01 5.035E+02 -3.947E+02 -1.552E+00 4.162E+03 3.552E+03 1.850E+03 9.650E+01 6.379E+02 -1.298E+03 -2.395E+01 -1.116E+04 -2.754E+01 1.523E+01 1.229E+01 | -7.730E+01 | 1.450E+00

2.746E+03 | | -2.323E+02 1.290E+03 2.199E+06 -8.758E+03 1.606E+05 -1.322E+03 2.741E+03 -1.980E+03 -2.853E+04 1.153E+03 -3.744E+03 1.491E+03 4.139E+02 4.801E+04 6.788E+04 3.818E+04 2.223E+03 6.301E+02 3.822E+04 3.418E+02 1.516E+02 -1.020E+01 1.256E+02 -1.158E+02 | 1.541E+03 | -4.678E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 270.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-2.283E-03 | 2.720E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.381E-05 | -6.369E-06 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

6.398E-06 | 1.593E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.138E-06 | -5.383E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-8.074E-04 | 7.003E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.769E-04 | -7.423E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

5.819E-07 | -8.477E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 3.142E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.256E-07 | 3.779E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-9.673E-04 | 4.439E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.540E-01 | -1.792E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

4.554E-01 | -1.708E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-4.772E-04 | -2.283E-03 | 1.784E-02 7.759E-02 -2.149E+02 -1.766E-01 2.416E+00 -4.720E-02 2.169E-01 -3.830E-02 -6.242E-01 9.747E-03 -7.328E-02 3.596E-02 -3.910E-02 9.381E-01 1.400E+00 7.432E-01 4.123E-02 1.232E-02 7.442E-01 9.451E-03 5.256E-03 2.860E-04 2.187E-03 -2.477E-03 | 4.045E-02 | -1.169E-03

-6.898E-06 | -1.381E-05 | -4.705E-05 -1.105E+00 -3.580E-04 2.297E-03 3.811E-05 1.194E-02 -6.642E-02 1.377E-05 -7.233E-02 1.014E-07 2.073E-05 -2.036E-05 3.168E-08 -5.964E-03 1.836E-04 9.634E-05 5.036E-06 2.985E-05 -4.483E-05 -9.813E-07 -5.192E-04 -1.247E-06 9.141E-07 3.335E-07 | -3.145E-06 | 5.561E-08

1.930E-06 | 6.398E-06 | 9.072E-04 2.989E-03 -6.748E+00 -5.159E-03 7.198E-02 -1.386E-03 6.279E-03 -1.114E-03 -1.761E-02 2.883E-04 -2.127E-03 1.051E-03 -9.715E-04 2.729E-02 3.436E-02 2.164E-02 1.204E-03 3.582E-04 2.165E-02 2.681E-04 1.500E-04 8.324E-06 6.362E-05 -7.206E-05 | 1.153E-03 | -3.344E-05

2.956E-05 | 2.138E-06 | 1.613E-05 1.099E-01 -7.503E-04 -4.020E-01 1.570E-06 -7.056E-05 2.498E+01 -9.685E-08 3.195E-04 1.311E-08 -1.431E-07 1.165E-07 -9.990E-09 -3.922E-05 -1.063E-06 -3.597E-02 -4.561E-09 -2.172E-07 5.302E-02 1.318E-08 2.305E-06 5.749E-09 -2.421E-09 -3.613E-09 | -7.530E-08 | -5.002E-10

-2.410E-04 | -8.074E-04 | -9.733E-02 4.244E-02 8.176E+02 1.133E+00 -1.355E+01 2.473E-01 -1.676E+01 2.451E-01 5.750E+01 3.971E-01 9.776E-01 2.776E-01 6.578E-02 -6.777E+00 -1.325E+01 -4.692E+00 -3.194E-01 -1.015E-01 -4.732E+00 -7.484E-01 -3.384E-01 -1.618E-03 -1.478E-02 1.774E-02 | -2.688E+00 | 6.487E-02

9.051E-04 | -2.769E-04 | 5.405E-03 1.074E+02 -1.069E+01 1.362E-01 1.715E-01 -7.844E+00 1.614E+02 -1.900E-01 7.121E+01 2.062E-02 -2.985E-01 2.662E-01 -1.101E-03 -1.289E+00 -2.382E+00 -7.273E-01 -6.404E-02 -4.056E-02 -3.839E-01 1.909E-02 5.306E-01 1.590E-02 -1.126E-02 -4.673E-03 | 7.215E-02 | -7.510E-04

3.140E-05 | 5.819E-07 | -2.712E-05 -3.217E-01 -3.477E-01 5.088E-01 -1.421E-02 5.301E-02 -4.657E+02 -2.045E-02 -4.111E+00 -1.412E-01 3.604E-02 1.069E-01 1.156E-03 -7.854E-01 1.756E+00 -2.817E+00 4.597E-02 -1.484E-02 -3.841E+00 -3.233E-02 -6.164E-02 6.179E-03 -3.480E-03 -2.560E-03 | -1.691E-01 | -1.515E-03

6.492E-05 | 1.267E+00 | -1.451E-06 -2.416E-02 2.889E-03 6.403E-05 -6.103E-05 2.505E-03 -4.483E-01 5.464E-05 1.726E+02 -1.256E-04 1.328E-04 1.870E-05 1.537E-06 -2.177E-04 2.363E-03 -2.323E-03 6.216E-05 0.000E+00 -3.275E-03 -3.671E-05 1.236E+00 2.397E-07 4.794E-07 -9.587E-07 | -3.415E-04 | -1.192E-06

-3.349E-05 | -1.256E-07 | -3.816E-05 -2.314E+00 -7.000E-01 1.624E-03 1.369E-01 2.380E-01 -4.257E+01 1.308E-03 -2.411E+02 -4.140E-01 -3.967E-01 -3.998E-01 -1.159E-01 -1.628E+00 -9.898E+00 -4.537E-02 -1.121E-01 -5.089E-02 -1.364E-01 -1.635E+00 -3.362E+00 -5.049E-03 -4.824E-03 -5.370E-03 | -7.100E+00 | 1.157E-01

-6.630E-01 | -9.673E-04 | -1.153E-02 1.294E-02 7.262E+01 3.093E+00 1.208E+01 9.769E-01 -1.940E+04 -1.423E+00 -5.239E+03 -8.457E+01 -3.010E+01 -2.611E+01 -1.038E+01 -1.657E+02 -9.492E+02 -2.605E+01 -1.165E+01 -4.897E+00 -6.730E+01 -1.470E+02 -1.846E+02 -4.251E-01 -5.250E-01 -5.221E-01 | -6.623E+02 | 1.035E+01

3.424E-01 | -4.540E-01 | 8.562E-02 8.939E+00 -7.834E+02 7.260E+00 3.043E+01 -1.280E+01 5.299E+03 -1.688E+01 -5.031E+03 -3.001E+01 -8.126E+01 -3.223E+01 -1.056E+01 -1.887E+02 -9.432E+02 -9.136E+01 -1.144E+01 -5.292E+00 -8.020E+01 -1.456E+02 -1.816E+02 -4.293E-01 -6.507E-01 -4.121E-01 | -6.450E+02 | 1.039E+01

3.179E-01 | 4.554E-01 | -4.470E-02 -8.322E+00 3.787E+02 -1.182E+01 8.275E+00 1.118E+01 1.430E+04 1.745E+01 -5.019E+03 -2.618E+01 -3.201E+01 -8.252E+01 -1.056E+01 -7.270E+01 -8.453E+02 1.647E+02 -8.652E+00 -3.461E+00 1.950E+02 -1.475E+02 -1.836E+02 -6.212E-01 -2.387E-01 -6.372E-01 | -6.488E+02 | 1.060E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.478E+02 | | 7.721E+00 2.304E+05 -1.284E+03 -9.892E+02 -4.577E+01 2.566E+05 -1.486E+06 3.067E+02 -1.554E+06 -1.121E+00 4.654E+02 -4.481E+02 -1.542E+00 4.182E+03 3.551E+03 1.855E+03 9.632E+01 6.381E+02 -1.295E+03 -2.290E+01 -1.116E+04 -2.686E+01 1.904E+01 7.854E+00 | -7.128E+01 | 1.484E+00

2.737E+03 | | -2.323E+02 1.266E+03 2.199E+06 -8.778E+03 1.607E+05 -1.319E+03 3.015E+02 -1.972E+03 -2.862E+04 6.022E+02 -3.664E+03 1.960E+03 4.135E+02 4.820E+04 6.773E+04 3.831E+04 2.216E+03 6.327E+02 3.834E+04 3.383E+02 1.475E+02 1.463E+01 1.126E+02 -1.272E+02 | 1.559E+03 | -4.783E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 280.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

5.640E-04 | 2.773E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.217E-05 | -1.988E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

6.867E-06 | 1.603E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

5.686E-06 | -5.378E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-7.564E-04 | 6.905E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.079E-04 | -1.009E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.786E-06 | -8.480E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 3.316E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.366E-06 | 8.429E-08 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-9.183E-02 | 4.374E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.003E-01 | -2.381E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

4.923E-01 | -1.054E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-8.674E-04 | 5.640E-04 | 1.784E-02 7.681E-02 -2.149E+02 -1.744E-01 2.416E+00 -4.713E-02 3.479E-01 -3.823E-02 -6.246E-01 -1.445E-03 -6.982E-02 4.366E-02 -3.912E-02 9.351E-01 1.393E+00 7.442E-01 4.109E-02 1.233E-02 7.455E-01 9.075E-03 4.875E-03 7.590E-04 1.869E-03 -2.623E-03 | 4.209E-02 | -1.208E-03

9.219E-06 | -1.217E-05 | -4.700E-05 -1.105E+00 -3.630E-04 2.345E-03 3.810E-05 1.194E-02 -6.640E-02 1.375E-05 -7.233E-02 4.218E-06 1.835E-05 -2.210E-05 3.132E-08 -5.964E-03 1.853E-04 9.685E-05 5.030E-06 2.986E-05 -4.456E-05 -9.853E-07 -5.192E-04 -1.173E-06 1.060E-06 1.143E-07 | -2.711E-06 | 4.635E-08

-7.845E-06 | 6.867E-06 | 9.073E-04 2.966E-03 -6.748E+00 -5.089E-03 7.199E-02 -1.384E-03 1.031E-02 -1.112E-03 -1.762E-02 -3.740E-05 -2.026E-03 1.275E-03 -9.720E-04 2.720E-02 3.414E-02 2.166E-02 1.200E-03 3.584E-04 2.169E-02 2.572E-04 1.389E-04 2.209E-05 5.438E-05 -7.632E-05 | 1.200E-03 | -3.456E-05

2.441E-05 | 5.686E-06 | 9.319E-06 1.119E-01 -7.175E-04 -4.020E-01 3.330E-06 -7.073E-05 2.498E+01 -1.585E-07 3.194E-04 -8.938E-09 -1.948E-07 1.717E-07 -3.756E-08 -3.868E-05 -3.221E-06 -3.597E-02 2.324E-08 -2.050E-07 5.302E-02 1.756E-08 2.306E-06 5.808E-09 -8.997E-10 -4.206E-09 | -1.686E-07 | -1.564E-09

1.153E-03 | -7.564E-04 | -9.735E-02 4.545E-02 8.176E+02 1.125E+00 -1.355E+01 2.470E-01 -1.757E+01 2.446E-01 5.750E+01 4.693E-01 9.600E-01 2.231E-01 6.583E-02 -6.758E+00 -1.320E+01 -4.699E+00 -3.186E-01 -1.017E-01 -4.741E+00 -7.465E-01 -3.364E-01 -4.911E-03 -1.255E-02 1.876E-02 | -2.699E+00 | 6.519E-02

1.073E-03 | -1.079E-04 | 5.399E-03 1.074E+02 -1.068E+01 1.327E-01 1.711E-01 -7.843E+00 1.613E+02 -1.897E-01 7.121E+01 -3.641E-02 -2.692E-01 2.940E-01 -1.088E-03 -1.284E+00 -2.372E+00 -7.289E-01 -6.402E-02 -4.070E-02 -3.858E-01 1.903E-02 5.305E-01 1.504E-02 -1.317E-02 -1.910E-03 | 6.696E-02 | -6.454E-04

6.144E-05 | -1.786E-06 | -2.139E-05 -3.238E-01 -3.379E-01 5.136E-01 -1.441E-02 5.298E-02 -4.650E+02 -2.111E-02 -4.105E+00 -1.456E-01 6.018E-02 8.720E-02 1.132E-03 -8.103E-01 1.743E+00 -2.825E+00 4.613E-02 -1.516E-02 -3.849E+00 -3.213E-02 -6.138E-02 5.998E-03 -4.289E-03 -1.578E-03 | -1.663E-01 | -1.459E-03

1.249E-05 | 1.267E+00 | -1.110E-06 -2.413E-02 2.871E-03 2.647E-05 -6.260E-05 2.502E-03 -4.475E-01 5.208E-05 1.726E+02 -1.174E-04 1.433E-04 -1.774E-05 1.195E-06 -2.459E-04 2.334E-03 -2.331E-03 6.171E-05 -8.192E-07 -3.281E-03 -3.671E-05 1.236E+00 2.397E-07 9.587E-07 -9.587E-07 | -1.366E-04 | -2.980E-07

5.000E-06 | -1.366E-06 | -3.816E-05 -2.315E+00 -7.001E-01 3.096E-03 1.369E-01 2.380E-01 -4.250E+01 1.173E-03 -2.411E+02 -4.135E-01 -3.954E-01 -4.016E-01 -1.159E-01 -1.632E+00 -9.886E+00 -4.914E-02 -1.122E-01 -5.100E-02 -1.402E-01 -1.636E+00 -3.363E+00 -4.994E-03 -4.869E-03 -5.378E-03 | -7.094E+00 | 1.158E-01

-6.531E-01 | -9.183E-02 | 1.792E-03 1.745E+00 -4.612E+01 5.006E+00 1.436E+01 -1.448E+00 -1.997E+04 -4.863E+00 -5.237E+03 -8.514E+01 -2.920E+01 -2.673E+01 -1.039E+01 -1.769E+02 -9.562E+02 -5.171E+01 -1.189E+01 -5.082E+00 -9.420E+01 -1.469E+02 -1.844E+02 -4.138E-01 -5.730E-01 -4.853E-01 | -6.613E+02 | 1.033E+01

4.396E-01 | -4.003E-01 | 8.119E-02 7.947E+00 -7.430E+02 5.850E+00 2.984E+01 -1.156E+01 8.594E+03 -1.471E+01 -5.010E+03 -2.910E+01 -8.183E+01 -3.253E+01 -1.058E+01 -1.793E+02 -9.315E+02 -7.182E+01 -1.115E+01 -5.152E+00 -5.369E+01 -1.457E+02 -1.815E+02 -4.692E-01 -6.180E-01 -4.074E-01 | -6.432E+02 | 1.042E+01

2.088E-01 | 4.923E-01 | -5.356E-02 -9.078E+00 4.568E+02 -1.209E+01 6.585E+00 1.237E+01 1.159E+04 1.871E+01 -5.041E+03 -2.679E+01 -3.232E+01 -8.135E+01 -1.055E+01 -7.106E+01 -8.462E+02 1.700E+02 -8.731E+00 -3.435E+00 1.945E+02 -1.477E+02 -1.839E+02 -5.766E-01 -2.371E-01 -6.802E-01 | -6.499E+02 | 1.059E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.194E+02 | | 7.704E+00 2.304E+05 -1.283E+03 -9.927E+02 -4.520E+01 2.566E+05 -1.486E+06 3.061E+02 -1.554E+06 9.055E+01 4.131E+02 -4.875E+02 -1.543E+00 4.178E+03 3.538E+03 1.859E+03 9.623E+01 6.384E+02 -1.290E+03 -2.287E+01 -1.116E+04 -2.541E+01 2.225E+01 3.196E+00 | -6.798E+01 | 1.246E+00

2.730E+03 | | -2.322E+02 1.269E+03 2.198E+06 -8.786E+03 1.607E+05 -1.317E+03 6.734E+03 -1.968E+03 -2.863E+04 2.607E+01 -3.485E+03 2.355E+03 4.126E+02 4.804E+04 6.734E+04 3.836E+04 2.208E+03 6.331E+02 3.841E+04 3.188E+02 1.279E+02 3.896E+01 9.632E+01 -1.348E+02 | 1.644E+03 | -4.980E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 290.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

4.293E-04 | 2.774E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.074E-05 | -2.146E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

5.291E-06 | 1.612E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

8.533E-06 | -5.377E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-5.650E-04 | 6.812E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-7.187E-06 | -1.017E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-3.019E-06 | -8.511E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 3.491E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.006E-06 | 6.245E-08 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.804E-01 | 4.186E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-3.341E-01 | -2.888E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

5.142E-01 | -3.594E-02 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-1.028E-03 | 4.293E-04 | 1.784E-02 7.568E-02 -2.149E+02 -1.730E-01 2.416E+00 -4.709E-02 6.154E-01 -3.831E-02 -6.234E-01 -1.280E-02 -6.454E-02 4.973E-02 -3.914E-02 9.270E-01 1.384E+00 7.435E-01 4.104E-02 1.228E-02 7.454E-01 8.717E-03 4.525E-03 1.208E-03 1.497E-03 -2.693E-03 | 4.662E-02 | -1.257E-03

1.167E-05 | -1.074E-05 | -4.699E-05 -1.105E+00 -3.628E-04 2.347E-03 3.812E-05 1.194E-02 -6.637E-02 1.372E-05 -7.233E-02 8.221E-06 1.542E-05 -2.316E-05 3.152E-08 -5.966E-03 1.863E-04 9.591E-05 5.030E-06 2.986E-05 -4.436E-05 -9.877E-07 -5.192E-04 -1.063E-06 1.173E-06 -1.076E-07 | -1.942E-06 | 4.055E-08

-1.321E-05 | 5.291E-06 | 9.073E-04 2.936E-03 -6.748E+00 -5.046E-03 7.199E-02 -1.383E-03 1.812E-02 -1.115E-03 -1.759E-02 -3.679E-04 -1.873E-03 1.452E-03 -9.727E-04 2.696E-02 3.390E-02 2.164E-02 1.198E-03 3.571E-04 2.169E-02 2.467E-04 1.287E-04 3.516E-05 4.355E-05 -7.834E-05 | 1.332E-03 | -3.601E-05

1.587E-05 | 8.533E-06 | 8.420E-06 1.120E-01 -7.189E-04 -4.020E-01 3.478E-06 -7.084E-05 2.498E+01 -1.213E-07 3.192E-04 -5.535E-08 -1.779E-07 1.905E-07 -4.077E-08 -3.882E-05 -3.516E-06 -3.597E-02 2.595E-08 -2.036E-07 5.302E-02 1.511E-08 2.301E-06 6.261E-09 -1.178E-09 -3.548E-09 | -3.283E-08 | -1.664E-09

1.348E-03 | -5.650E-04 | -9.735E-02 5.007E-02 8.177E+02 1.117E+00 -1.355E+01 2.467E-01 -1.931E+01 2.451E-01 5.749E+01 5.435E-01 9.302E-01 1.788E-01 6.590E-02 -6.703E+00 -1.314E+01 -4.693E+00 -3.184E-01 -1.014E-01 -4.739E+00 -7.453E-01 -3.352E-01 -8.037E-03 -9.951E-03 1.923E-02 | -2.734E+00 | 6.563E-02

3.205E-04 | -7.187E-06 | 5.397E-03 1.074E+02 -1.067E+01 1.310E-01 1.708E-01 -7.843E+00 1.611E+02 -1.891E-01 7.121E+01 -9.254E-02 -2.317E-01 3.127E-01 -1.099E-03 -1.266E+00 -2.361E+00 -7.291E-01 -6.405E-02 -4.064E-02 -3.869E-01 1.891E-02 5.303E-01 1.372E-02 -1.467E-02 9.047E-04 | 5.925E-02 | -5.833E-04

-9.545E-05 | -3.019E-06 | -2.279E-05 -3.238E-01 -3.204E-01 5.178E-01 -1.488E-02 5.291E-02 -4.645E+02 -2.175E-02 -4.099E+00 -1.457E-01 8.253E-02 6.497E-02 1.153E-03 -8.291E-01 1.739E+00 -2.835E+00 4.630E-02 -1.542E-02 -3.857E+00 -3.170E-02 -6.090E-02 5.641E-03 -4.964E-03 -5.511E-04 | -1.700E-01 | -1.407E-03

1.173E-05 | 1.267E+00 | -1.366E-06 -2.413E-02 2.904E-03 5.123E-05 -6.732E-05 2.501E-03 -4.472E-01 5.720E-05 1.726E+02 -1.074E-04 1.493E-04 -4.027E-05 1.281E-06 -2.647E-04 2.330E-03 -2.344E-03 6.260E-05 -1.092E-06 -3.290E-03 -3.586E-05 1.236E+00 4.794E-07 2.397E-07 -9.587E-07 | 1.708E-05 | -5.960E-07

1.922E-05 | 1.006E-06 | -3.816E-05 -2.315E+00 -6.995E-01 4.512E-03 1.369E-01 2.380E-01 -4.243E+01 1.019E-03 -2.411E+02 -4.126E-01 -3.943E-01 -4.035E-01 -1.160E-01 -1.633E+00 -9.880E+00 -5.085E-02 -1.124E-01 -5.112E-02 -1.418E-01 -1.636E+00 -3.363E+00 -4.943E-03 -4.920E-03 -5.375E-03 | -7.099E+00 | 1.158E-01

-6.314E-01 | -1.804E-01 | 1.529E-02 3.436E+00 -1.665E+02 6.736E+00 1.670E+01 -3.842E+00 -1.995E+04 -8.172E+00 -5.232E+03 -8.538E+01 -2.838E+01 -2.761E+01 -1.040E+01 -1.868E+02 -9.621E+02 -7.495E+01 -1.210E+01 -5.251E+00 -1.174E+02 -1.467E+02 -1.842E+02 -4.199E-01 -6.124E-01 -4.402E-01 | -6.611E+02 | 1.033E+01

5.198E-01 | -3.341E-01 | 7.462E-02 6.720E+00 -6.838E+02 4.172E+00 2.888E+01 -9.977E+00 1.163E+04 -1.209E+01 -4.992E+03 -2.827E+01 -8.261E+01 -3.249E+01 -1.060E+01 -1.683E+02 -9.197E+02 -4.939E+01 -1.085E+01 -4.990E+00 -2.481E+01 -1.458E+02 -1.815E+02 -5.002E-01 -5.783E-01 -4.182E-01 | -6.426E+02 | 1.045E+01

1.105E-01 | 5.142E-01 | -6.048E-02 -9.552E+00 5.177E+02 -1.187E+01 5.213E+00 1.318E+01 8.536E+03 1.939E+01 -5.065E+03 -2.766E+01 -3.229E+01 -8.029E+01 -1.053E+01 -7.215E+01 -8.502E+02 1.706E+02 -8.881E+00 -3.453E+00 1.887E+02 -1.479E+02 -1.843E+02 -5.249E-01 -2.528E-01 -7.129E-01 | -6.518E+02 | 1.058E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.210E+02 | | 7.711E+00 2.304E+05 -1.293E+03 -9.867E+02 -4.455E+01 2.566E+05 -1.486E+06 3.052E+02 -1.554E+06 1.797E+02 3.485E+02 -5.121E+02 -1.542E+00 4.152E+03 3.521E+03 1.863E+03 9.623E+01 6.384E+02 -1.286E+03 -2.279E+01 -1.116E+04 -2.317E+01 2.479E+01 -1.566E+00 | -5.281E+01 | 1.156E+00

2.724E+03 | | -2.322E+02 1.277E+03 2.198E+06 -8.733E+03 1.607E+05 -1.315E+03 2.048E+04 -1.972E+03 -2.856E+04 -5.584E+02 -3.213E+03 2.667E+03 4.114E+02 4.763E+04 6.691E+04 3.833E+04 2.206E+03 6.307E+02 3.840E+04 3.001E+02 1.096E+02 6.207E+01 7.721E+01 -1.384E+02 | 1.876E+03 | -5.235E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 300.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

2.595E-04 | 2.774E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-9.017E-06 | -2.282E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.615E-06 | 1.617E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

9.692E-06 | -5.376E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.354E-04 | 6.755E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

3.597E-05 | -1.014E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.869E-06 | -8.570E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 3.665E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

5.642E-07 | 2.187E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.638E-01 | 3.880E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.574E-01 | -3.296E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

5.205E-01 | 3.550E-02 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-1.448E-03 | 2.595E-04 | 1.784E-02 7.680E-02 -2.149E+02 -1.720E-01 2.416E+00 -4.708E-02 9.512E-01 -3.853E-02 -6.211E-01 -2.402E-02 -5.762E-02 5.402E-02 -3.914E-02 9.162E-01 1.377E+00 7.403E-01 4.104E-02 1.218E-02 7.428E-01 8.489E-03 4.317E-03 1.621E-03 1.082E-03 -2.686E-03 | 4.883E-02 | -1.291E-03

1.336E-05 | -9.017E-06 | -4.698E-05 -1.105E+00 -3.783E-04 2.354E-03 3.815E-05 1.194E-02 -6.633E-02 1.365E-05 -7.233E-02 1.199E-05 1.202E-05 -2.353E-05 3.518E-08 -5.968E-03 1.861E-04 9.393E-05 5.039E-06 2.984E-05 -4.445E-05 -9.731E-07 -5.192E-04 -9.201E-07 1.250E-06 -3.267E-07 | -1.356E-06 | 2.757E-08

-2.589E-05 | 2.615E-06 | 9.074E-04 2.980E-03 -6.748E+00 -5.021E-03 7.200E-02 -1.382E-03 2.791E-02 -1.121E-03 -1.752E-02 -6.941E-04 -1.672E-03 1.577E-03 -9.727E-04 2.665E-02 3.369E-02 2.155E-02 1.198E-03 3.541E-04 2.162E-02 2.401E-04 1.226E-04 4.717E-05 3.148E-05 -7.813E-05 | 1.397E-03 | -3.698E-05

2.075E-07 | 9.692E-06 | 7.818E-06 1.121E-01 -7.041E-04 -4.020E-01 3.572E-06 -7.089E-05 2.498E+01 -1.267E-07 3.189E-04 -8.143E-08 -1.469E-07 1.966E-07 -4.394E-08 -3.892E-05 -3.766E-06 -3.597E-02 2.874E-08 -2.025E-07 5.302E-02 1.723E-08 2.304E-06 6.884E-09 -3.561E-09 -4.331E-09 | 3.218E-07 | -2.157E-09

3.506E-03 | -2.354E-04 | -9.735E-02 4.642E-02 8.177E+02 1.109E+00 -1.355E+01 2.466E-01 -2.149E+01 2.465E-01 5.748E+01 6.177E-01 8.891E-01 1.457E-01 6.584E-02 -6.631E+00 -1.310E+01 -4.670E+00 -3.184E-01 -1.007E-01 -4.721E+00 -7.452E-01 -3.353E-01 -1.091E-02 -7.049E-03 1.917E-02 | -2.751E+00 | 6.593E-02

3.308E-04 | 3.597E-05 | 5.395E-03 1.074E+02 -1.067E+01 1.282E-01 1.706E-01 -7.843E+00 1.608E+02 -1.883E-01 7.121E+01 -1.460E-01 -1.874E-01 3.219E-01 -1.158E-03 -1.241E+00 -2.352E+00 -7.255E-01 -6.418E-02 -4.033E-02 -3.846E-01 1.857E-02 5.300E-01 1.198E-02 -1.573E-02 3.696E-03 | 5.235E-02 | -4.247E-04

8.869E-05 | -4.869E-06 | -2.507E-05 -3.236E-01 -2.998E-01 5.200E-01 -1.551E-02 5.281E-02 -4.644E+02 -2.215E-02 -4.095E+00 -1.415E-01 1.025E-01 4.085E-02 1.226E-03 -8.367E-01 1.747E+00 -2.845E+00 4.648E-02 -1.555E-02 -3.867E+00 -3.111E-02 -6.028E-02 5.112E-03 -5.489E-03 4.911E-04 | -1.766E-01 | -1.344E-03

3.829E-05 | 1.267E+00 | -1.110E-06 -2.414E-02 2.915E-03 6.062E-05 -6.732E-05 2.510E-03 -4.468E-01 2.988E-05 1.726E+02 -8.029E-05 1.500E-04 -6.567E-05 1.366E-06 -2.809E-04 2.352E-03 -2.350E-03 6.305E-05 -2.731E-07 -3.300E-03 -3.330E-05 1.236E+00 1.198E-06 2.397E-07 -7.190E-07 | -3.586E-04 | -1.490E-06

-2.048E-05 | 5.642E-07 | -3.859E-05 -2.315E+00 -6.983E-01 5.558E-03 1.368E-01 2.380E-01 -4.238E+01 8.717E-04 -2.411E+02 -4.116E-01 -3.936E-01 -4.054E-01 -1.160E-01 -1.634E+00 -9.881E+00 -5.268E-02 -1.126E-01 -5.124E-02 -1.435E-01 -1.637E+00 -3.364E+00 -4.897E-03 -4.976E-03 -5.371E-03 | -7.104E+00 | 1.159E-01

-5.745E-01 | -2.638E-01 | 2.861E-02 5.037E+00 -2.849E+02 8.156E+00 1.905E+01 -6.130E+00 -1.933E+04 -1.124E+01 -5.222E+03 -8.529E+01 -2.775E+01 -2.865E+01 -1.041E+01 -1.949E+02 -9.670E+02 -9.520E+01 -1.226E+01 -5.393E+00 -1.363E+02 -1.466E+02 -1.839E+02 -4.423E-01 -6.389E-01 -3.929E-01 | -6.607E+02 | 1.032E+01

5.895E-01 | -2.574E-01 | 6.612E-02 5.300E+00 -6.073E+02 2.302E+00 2.756E+01 -8.094E+00 1.431E+04 -9.120E+00 -4.977E+03 -2.763E+01 -8.352E+01 -3.209E+01 -1.061E+01 -1.564E+02 -9.083E+02 -2.490E+01 -1.055E+01 -4.814E+00 5.389E+00 -1.460E+02 -1.816E+02 -5.180E-01 -5.370E-01 -4.439E-01 | -6.422E+02 | 1.048E+01

-2.052E-02 | 5.205E-01 | -6.529E-02 -9.735E+00 5.596E+02 -1.119E+01 4.188E+00 1.359E+01 5.240E+03 1.945E+01 -5.090E+03 -2.869E+01 -3.191E+01 -7.947E+01 -1.052E+01 -7.591E+01 -8.570E+02 1.661E+02 -9.080E+00 -3.511E+00 1.772E+02 -1.480E+02 -1.846E+02 -4.714E-01 -2.843E-01 -7.322E-01 | -6.538E+02 | 1.057E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.197E+02 | | 7.704E+00 2.304E+05 -1.295E+03 -9.802E+02 -4.396E+01 2.566E+05 -1.485E+06 3.040E+02 -1.554E+06 2.637E+02 2.737E+02 -5.213E+02 -1.453E+00 4.113E+03 3.503E+03 1.860E+03 9.643E+01 6.379E+02 -1.288E+03 -2.247E+01 -1.116E+04 -2.024E+01 2.656E+01 -6.283E+00 | -3.856E+01 | 8.841E-01

2.720E+03 | | -2.322E+02 1.265E+03 2.198E+06 -8.637E+03 1.607E+05 -1.315E+03 3.775E+04 -1.983E+03 -2.844E+04 -1.135E+03 -2.856E+03 2.887E+03 4.114E+02 4.707E+04 6.654E+04 3.816E+04 2.206E+03 6.253E+02 3.827E+04 2.881E+02 9.858E+01 8.333E+01 5.588E+01 -1.380E+02 | 1.989E+03 | -5.405E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 310.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

7.179E-05 | 2.774E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-7.037E-06 | -2.393E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-6.122E-07 | 1.619E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

8.690E-06 | -5.374E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.662E-04 | 6.750E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.736E-05 | -1.009E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-3.534E-06 | -8.626E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 3.840E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.348E-07 | 2.182E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-3.389E-01 | 3.464E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.727E-01 | -3.593E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

5.110E-01 | 1.067E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-1.250E-03 | 7.179E-05 | 1.784E-02 7.578E-02 -2.149E+02 -1.711E-01 2.416E+00 -4.709E-02 1.266E+00 -3.881E-02 -6.183E-01 -3.478E-02 -4.923E-02 5.641E-02 -3.912E-02 9.051E-01 1.373E+00 7.368E-01 4.109E-02 1.207E-02 7.400E-01 8.703E-03 4.554E-03 1.986E-03 6.331E-04 -2.602E-03 | 4.776E-02 | -1.338E-03

1.513E-05 | -7.037E-06 | -4.697E-05 -1.105E+00 -3.871E-04 2.349E-03 3.814E-05 1.194E-02 -6.629E-02 1.362E-05 -7.233E-02 1.540E-05 8.253E-06 -2.318E-05 3.402E-08 -5.970E-03 1.849E-04 9.165E-05 5.041E-06 2.982E-05 -4.449E-05 -9.628E-07 -5.192E-04 -7.491E-07 1.288E-06 -5.365E-07 | -1.676E-06 | 2.408E-08

-2.016E-05 | -6.122E-07 | 9.073E-04 2.956E-03 -6.748E+00 -4.997E-03 7.199E-02 -1.383E-03 3.708E-02 -1.129E-03 -1.744E-02 -1.007E-03 -1.427E-03 1.646E-03 -9.721E-04 2.633E-02 3.358E-02 2.144E-02 1.200E-03 3.510E-04 2.154E-02 2.463E-04 1.295E-04 5.779E-05 1.843E-05 -7.570E-05 | 1.365E-03 | -3.835E-05

-1.430E-05 | 8.690E-06 | 7.214E-06 1.121E-01 -7.045E-04 -4.020E-01 3.656E-06 -7.090E-05 2.498E+01 -1.380E-07 3.193E-04 -1.204E-07 -1.183E-07 2.032E-07 -4.637E-08 -3.891E-05 -4.005E-06 -3.597E-02 3.073E-08 -2.010E-07 5.302E-02 1.386E-08 2.301E-06 7.062E-09 -3.778E-09 -2.487E-09 | 2.000E-07 | -1.310E-09

2.171E-03 | 1.662E-04 | -9.735E-02 5.069E-02 8.176E+02 1.101E+00 -1.355E+01 2.467E-01 -2.353E+01 2.483E-01 5.746E+01 6.899E-01 8.377E-01 1.248E-01 6.565E-02 -6.557E+00 -1.307E+01 -4.646E+00 -3.188E-01 -1.001E-01 -4.700E+00 -7.477E-01 -3.379E-01 -1.345E-02 -3.916E-03 1.857E-02 | -2.744E+00 | 6.620E-02

-4.525E-04 | 2.736E-05 | 5.394E-03 1.074E+02 -1.067E+01 1.247E-01 1.706E-01 -7.843E+00 1.605E+02 -1.879E-01 7.120E+01 -1.952E-01 -1.375E-01 3.212E-01 -1.145E-03 -1.215E+00 -2.347E+00 -7.233E-01 -6.424E-02 -4.010E-02 -3.837E-01 1.841E-02 5.298E-01 9.868E-03 -1.630E-02 6.379E-03 | 5.562E-02 | -3.954E-04

-8.783E-05 | -3.534E-06 | -2.716E-05 -3.235E-01 -2.812E-01 5.195E-01 -1.612E-02 5.271E-02 -4.647E+02 -2.218E-02 -4.095E+00 -1.331E-01 1.195E-01 1.554E-02 1.281E-03 -8.305E-01 1.762E+00 -2.851E+00 4.672E-02 -1.547E-02 -3.874E+00 -3.036E-02 -5.953E-02 4.430E-03 -5.844E-03 1.522E-03 | -1.800E-01 | -1.321E-03

3.741E-05 | 1.267E+00 | -1.366E-06 -2.414E-02 2.868E-03 3.074E-05 -6.216E-05 2.502E-03 -4.470E-01 8.538E-06 1.726E+02 -5.848E-05 1.508E-04 -9.324E-05 1.537E-06 -2.835E-04 2.354E-03 -2.355E-03 6.328E-05 -5.461E-07 -3.306E-03 -3.500E-05 1.236E+00 9.587E-07 7.190E-07 -7.190E-07 | -1.281E-04 | -2.980E-07

8.762E-06 | -1.348E-07 | -3.859E-05 -2.315E+00 -6.967E-01 5.885E-03 1.368E-01 2.380E-01 -4.237E+01 8.196E-04 -2.411E+02 -4.102E-01 -3.931E-01 -4.072E-01 -1.161E-01 -1.635E+00 -9.886E+00 -5.197E-02 -1.127E-01 -5.132E-02 -1.428E-01 -1.637E+00 -3.364E+00 -4.860E-03 -5.027E-03 -5.360E-03 | -7.111E+00 | 1.159E-01

-5.150E-01 | -3.389E-01 | 4.138E-02 6.491E+00 -3.983E+02 9.188E+00 2.133E+01 -8.241E+00 -1.814E+04 -1.396E+01 -5.209E+03 -8.490E+01 -2.737E+01 -2.973E+01 -1.043E+01 -2.011E+02 -9.707E+02 -1.117E+02 -1.237E+01 -5.502E+00 -1.503E+02 -1.464E+02 -1.836E+02 -4.781E-01 -6.489E-01 -3.486E-01 | -6.600E+02 | 1.032E+01

6.383E-01 | -1.727E-01 | 5.593E-02 3.722E+00 -5.159E+02 3.369E-01 2.591E+01 -5.973E+00 1.658E+04 -5.880E+00 -4.966E+03 -2.724E+01 -8.442E+01 -3.138E+01 -1.063E+01 -1.445E+02 -8.978E+02 1.047E+00 -1.024E+01 -4.632E+00 3.615E+01 -1.462E+02 -1.817E+02 -5.204E-01 -4.985E-01 -4.812E-01 | -6.422E+02 | 1.050E+01

-1.166E-01 | 5.110E-01 | -6.787E-02 -9.608E+00 5.815E+02 -1.018E+01 3.540E+00 1.358E+01 1.792E+03 1.891E+01 -5.114E+03 -2.975E+01 -3.122E+01 -7.897E+01 -1.050E+01 -8.208E+01 -8.659E+02 1.569E+02 -9.317E+00 -3.607E+00 1.606E+02 -1.481E+02 -1.848E+02 -4.226E-01 -3.275E-01 -7.359E-01 | -6.561E+02 | 1.055E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.177E+02 | | 7.708E+00 2.304E+05 -1.294E+03 -9.720E+02 -4.375E+01 2.566E+05 -1.485E+06 3.034E+02 -1.554E+06 3.399E+02 1.904E+02 -5.143E+02 -1.485E+00 4.069E+03 3.492E+03 1.858E+03 9.647E+01 6.375E+02 -1.288E+03 -2.229E+01 -1.116E+04 -1.666E+01 2.751E+01 -1.080E+01 | -4.719E+01 | 7.992E-01

2.719E+03 | | -2.322E+02 1.277E+03 2.198E+06 -8.540E+03 1.607E+05 -1.316E+03 5.393E+04 -1.998E+03 -2.830E+04 -1.689E+03 -2.424E+03 3.009E+03 4.125E+02 4.650E+04 6.635E+04 3.798E+04 2.208E+03 6.200E+02 3.813E+04 2.989E+02 1.105E+02 1.021E+02 3.282E+01 -1.338E+02 | 1.934E+03 | -5.649E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 320.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-1.106E-04 | 2.774E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.860E-06 | -2.475E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-3.682E-06 | 1.616E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

5.796E-06 | -5.373E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

5.370E-04 | 6.799E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.808E-05 | -1.009E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.855E-06 | -8.675E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 4.014E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

4.986E-08 | 2.255E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.036E-01 | 2.951E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-8.294E-02 | -3.769E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

4.864E-01 | 1.756E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-1.403E-03 | -1.106E-04 | 1.784E-02 7.696E-02 -2.149E+02 -1.697E-01 2.416E+00 -4.712E-02 1.476E+00 -3.900E-02 -6.157E-01 -4.479E-02 -3.960E-02 5.682E-02 -3.910E-02 8.969E-01 1.374E+00 7.328E-01 4.120E-02 1.203E-02 7.366E-01 9.020E-03 4.890E-03 2.293E-03 1.675E-04 -2.437E-03 | 4.620E-02 | -1.293E-03

1.674E-05 | -4.860E-06 | -4.696E-05 -1.105E+00 -3.887E-04 2.349E-03 3.813E-05 1.194E-02 -6.627E-02 1.365E-05 -7.233E-02 1.834E-05 4.246E-06 -2.211E-05 3.075E-08 -5.972E-03 1.828E-04 8.934E-05 5.039E-06 2.981E-05 -4.471E-05 -9.722E-07 -5.192E-04 -5.544E-07 1.288E-06 -7.295E-07 | -2.286E-06 | 4.185E-08

-2.453E-05 | -3.682E-06 | 9.073E-04 3.001E-03 -6.748E+00 -4.956E-03 7.199E-02 -1.384E-03 4.320E-02 -1.135E-03 -1.736E-02 -1.299E-03 -1.147E-03 1.658E-03 -9.714E-04 2.609E-02 3.360E-02 2.133E-02 1.203E-03 3.499E-04 2.143E-02 2.555E-04 1.393E-04 6.672E-05 4.880E-06 -7.090E-05 | 1.320E-03 | -3.703E-05

-2.692E-05 | 5.796E-06 | 6.615E-06 1.121E-01 -7.162E-04 -4.020E-01 3.720E-06 -7.088E-05 2.498E+01 -1.739E-07 3.192E-04 -1.554E-07 -8.505E-08 2.070E-07 -4.781E-08 -3.882E-05 -4.089E-06 -3.597E-02 3.276E-08 -2.013E-07 5.302E-02 1.605E-08 2.304E-06 6.693E-09 -4.959E-09 -2.531E-09 | -1.191E-07 | -2.310E-09

3.267E-03 | 5.370E-04 | -9.734E-02 4.652E-02 8.176E+02 1.092E+00 -1.355E+01 2.468E-01 -2.489E+01 2.494E-01 5.744E+01 7.581E-01 7.775E-01 1.167E-01 6.537E-02 -6.503E+00 -1.308E+01 -4.616E+00 -3.197E-01 -9.997E-02 -4.673E+00 -7.501E-01 -3.404E-01 -1.558E-02 -6.689E-04 1.741E-02 | -2.742E+00 | 6.618E-02

-3.265E-04 | -2.808E-05 | 5.394E-03 1.074E+02 -1.068E+01 1.216E-01 1.707E-01 -7.843E+00 1.602E+02 -1.883E-01 7.120E+01 -2.385E-01 -8.352E-02 3.105E-01 -1.105E-03 -1.195E+00 -2.347E+00 -7.198E-01 -6.423E-02 -4.011E-02 -3.813E-01 1.851E-02 5.299E-01 7.442E-03 -1.637E-02 8.864E-03 | 6.255E-02 | -6.080E-04

1.114E-04 | -2.855E-06 | -2.836E-05 -3.234E-01 -2.697E-01 5.169E-01 -1.658E-02 5.264E-02 -4.653E+02 -2.190E-02 -4.097E+00 -1.208E-01 1.330E-01 -1.025E-02 1.340E-03 -8.108E-01 1.780E+00 -2.853E+00 4.696E-02 -1.527E-02 -3.877E+00 -2.986E-02 -5.906E-02 3.614E-03 -6.030E-03 2.513E-03 | -1.779E-01 | -1.426E-03

3.900E-05 | 1.267E+00 | -1.281E-06 -2.412E-02 2.916E-03 4.781E-05 -5.991E-05 2.497E-03 -4.475E-01 5.635E-05 1.726E+02 -3.236E-05 1.467E-04 -1.076E-04 1.451E-06 -2.732E-04 2.363E-03 -2.357E-03 6.373E-05 -1.092E-06 -3.308E-03 -3.500E-05 1.236E+00 1.198E-06 -2.397E-07 -4.794E-07 | 6.830E-05 | -5.960E-07

-1.183E-05 | 4.986E-08 | -3.885E-05 -2.315E+00 -6.947E-01 5.358E-03 1.367E-01 2.380E-01 -4.241E+01 8.341E-04 -2.411E+02 -4.087E-01 -3.929E-01 -4.089E-01 -1.162E-01 -1.633E+00 -9.894E+00 -4.859E-02 -1.128E-01 -5.134E-02 -1.395E-01 -1.637E+00 -3.364E+00 -4.834E-03 -5.086E-03 -5.332E-03 | -7.116E+00 | 1.163E-01

-4.208E-01 | -4.036E-01 | 5.323E-02 7.758E+00 -5.032E+02 9.849E+00 2.350E+01 -1.011E+01 -1.641E+04 -1.625E+01 -5.192E+03 -8.427E+01 -2.731E+01 -3.073E+01 -1.045E+01 -2.050E+02 -9.732E+02 -1.238E+02 -1.243E+01 -5.577E+00 -1.588E+02 -1.462E+02 -1.833E+02 -5.231E-01 -6.436E-01 -3.115E-01 | -6.588E+02 | 1.034E+01

6.596E-01 | -8.294E-02 | 4.432E-02 2.045E+00 -4.118E+02 -1.641E+00 2.400E+01 -3.681E+00 1.836E+04 -2.480E+00 -4.958E+03 -2.718E+01 -8.521E+01 -3.043E+01 -1.065E+01 -1.327E+02 -8.879E+02 2.770E+01 -9.935E+00 -4.447E+00 6.659E+01 -1.464E+02 -1.819E+02 -5.067E-01 -4.695E-01 -5.245E-01 | -6.425E+02 | 1.056E+01

-2.393E-01 | 4.864E-01 | -6.813E-02 -9.189E+00 5.827E+02 -8.938E+00 3.288E+00 1.315E+01 -1.714E+03 1.780E+01 -5.139E+03 -3.074E+01 -3.029E+01 -7.883E+01 -1.049E+01 -8.986E+01 -8.760E+02 1.433E+02 -9.590E+00 -3.726E+00 1.396E+02 -1.480E+02 -1.850E+02 -3.839E-01 -3.787E-01 -7.207E-01 | -6.583E+02 | 1.057E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.171E+02 | | 7.700E+00 2.304E+05 -1.288E+03 -9.674E+02 -4.379E+01 2.566E+05 -1.484E+06 3.043E+02 -1.554E+06 4.059E+02 1.016E+02 -4.915E+02 -1.557E+00 4.032E+03 3.488E+03 1.854E+03 9.638E+01 6.374E+02 -1.291E+03 -2.256E+01 -1.116E+04 -1.255E+01 2.764E+01 -1.498E+01 | -6.067E+01 | 1.185E+00

2.723E+03 | | -2.323E+02 1.268E+03 2.199E+06 -8.476E+03 1.607E+05 -1.317E+03 6.472E+04 -2.008E+03 -2.816E+04 -2.203E+03 -1.927E+03 3.029E+03 4.137E+02 4.608E+04 6.638E+04 3.778E+04 2.214E+03 6.179E+02 3.795E+04 3.151E+02 1.278E+02 1.179E+02 8.877E+00 -1.253E+02 | 1.852E+03 | -5.410E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 330.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-2.629E-04 | 2.774E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.553E-06 | -2.526E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-5.820E-06 | 1.609E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.732E-06 | -5.373E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

7.863E-04 | 6.892E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.033E-04 | -1.018E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.246E-07 | -8.691E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 4.189E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.367E-07 | 1.665E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.559E-01 | 2.358E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

8.618E-03 | -3.821E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

4.474E-01 | 2.400E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-8.935E-04 | -2.629E-04 | 1.784E-02 7.595E-02 -2.148E+02 -1.689E-01 2.416E+00 -4.716E-02 1.524E+00 -3.908E-02 -6.139E-01 -5.378E-02 -2.898E-02 5.522E-02 -3.907E-02 8.936E-01 1.377E+00 7.310E-01 4.134E-02 1.198E-02 7.348E-01 9.396E-03 5.278E-03 2.531E-03 -3.044E-04 -2.237E-03 | 4.431E-02 | -1.228E-03

1.675E-05 | -2.553E-06 | -4.695E-05 -1.105E+00 -4.017E-04 2.342E-03 3.811E-05 1.194E-02 -6.627E-02 1.364E-05 -7.233E-02 2.073E-05 1.179E-07 -2.038E-05 3.524E-08 -5.973E-03 1.802E-04 8.774E-05 5.050E-06 2.980E-05 -4.490E-05 -9.823E-07 -5.192E-04 -3.418E-07 1.247E-06 -9.063E-07 | -2.487E-06 | 4.789E-08

-9.215E-06 | -5.820E-06 | 9.073E-04 2.971E-03 -6.748E+00 -4.932E-03 7.198E-02 -1.385E-03 4.463E-02 -1.137E-03 -1.731E-02 -1.560E-03 -8.382E-04 1.612E-03 -9.706E-04 2.599E-02 3.370E-02 2.127E-02 1.207E-03 3.484E-04 2.138E-02 2.664E-04 1.506E-04 7.364E-05 -8.852E-06 -6.508E-05 | 1.265E-03 | -3.514E-05

-3.093E-05 | 1.732E-06 | 6.611E-06 1.120E-01 -7.103E-04 -4.020E-01 3.785E-06 -7.084E-05 2.498E+01 -1.413E-07 3.196E-04 -1.862E-07 -4.890E-08 1.971E-07 -4.834E-08 -3.862E-05 -4.148E-06 -3.597E-02 3.365E-08 -2.033E-07 5.302E-02 2.428E-08 2.315E-06 6.598E-09 -4.871E-09 -7.900E-10 | -1.720E-08 | -2.565E-09

6.270E-04 | 7.863E-04 | -9.733E-02 5.026E-02 8.175E+02 1.087E+00 -1.355E+01 2.471E-01 -2.521E+01 2.501E-01 5.743E+01 8.203E-01 7.099E-01 1.219E-01 6.515E-02 -6.483E+00 -1.310E+01 -4.604E+00 -3.206E-01 -9.962E-02 -4.662E+00 -7.528E-01 -3.433E-01 -1.723E-02 2.623E-03 1.597E-02 | -2.731E+00 | 6.582E-02

-7.576E-04 | -1.033E-04 | 5.395E-03 1.074E+02 -1.068E+01 1.192E-01 1.710E-01 -7.844E+00 1.602E+02 -1.886E-01 7.121E+01 -2.747E-01 -2.723E-02 2.904E-01 -1.158E-03 -1.187E+00 -2.350E+00 -7.181E-01 -6.437E-02 -3.994E-02 -3.803E-01 1.876E-02 5.302E-01 4.781E-03 -1.593E-02 1.114E-02 | 6.482E-02 | -6.656E-04

-8.488E-05 | -2.246E-07 | -2.875E-05 -3.232E-01 -2.685E-01 5.128E-01 -1.673E-02 5.262E-02 -4.661E+02 -2.154E-02 -4.103E+00 -1.048E-01 1.426E-01 -3.577E-02 1.342E-03 -7.864E-01 1.791E+00 -2.846E+00 4.703E-02 -1.499E-02 -3.872E+00 -2.977E-02 -5.901E-02 2.681E-03 -6.037E-03 3.495E-03 | -1.767E-01 | -1.516E-03

2.818E-05 | 1.267E+00 | -1.451E-06 -2.415E-02 2.929E-03 7.001E-05 -5.991E-05 2.510E-03 -4.482E-01 4.269E-05 1.726E+02 -7.190E-06 1.373E-04 -1.289E-04 1.793E-06 -2.519E-04 2.392E-03 -2.355E-03 6.395E-05 2.731E-07 -3.302E-03 -3.244E-05 1.236E+00 1.198E-06 0.000E+00 -7.190E-07 | -2.049E-04 | -1.192E-06

2.078E-05 | -4.367E-07 | -3.885E-05 -2.314E+00 -6.940E-01 4.318E-03 1.366E-01 2.380E-01 -4.247E+01 1.117E-03 -2.411E+02 -4.071E-01 -3.931E-01 -4.104E-01 -1.162E-01 -1.631E+00 -9.906E+00 -5.039E-02 -1.127E-01 -5.141E-02 -1.414E-01 -1.637E+00 -3.364E+00 -4.814E-03 -5.146E-03 -5.390E-03 | -7.117E+00 | 1.165E-01

-3.369E-01 | -4.559E-01 | 6.383E-02 8.790E+00 -5.966E+02 1.020E+01 2.547E+01 -1.167E+01 -1.418E+04 -1.804E+01 -5.173E+03 -8.349E+01 -2.757E+01 -3.154E+01 -1.047E+01 -2.072E+02 -9.747E+02 -1.322E+02 -1.244E+01 -5.629E+00 -1.624E+02 -1.461E+02 -1.830E+02 -5.713E-01 -6.229E-01 -2.924E-01 | -6.571E+02 | 1.036E+01

6.692E-01 | 8.618E-03 | 3.160E-02 3.163E-01 -2.983E+02 -3.564E+00 2.186E+01 -1.290E+00 1.959E+04 9.940E-01 -4.955E+03 -2.743E+01 -8.579E+01 -2.934E+01 -1.065E+01 -1.214E+02 -8.791E+02 5.342E+01 -9.629E+00 -4.274E+00 9.493E+01 -1.466E+02 -1.821E+02 -4.775E-01 -4.539E-01 -5.800E-01 | -6.428E+02 | 1.060E+01

-3.239E-01 | 4.474E-01 | -6.605E-02 -8.476E+00 5.628E+02 -7.524E+00 3.442E+00 1.232E+01 -5.176E+03 1.618E+01 -5.162E+03 -3.154E+01 -2.921E+01 -7.908E+01 -1.047E+01 -9.880E+01 -8.872E+02 1.252E+02 -9.873E+00 -3.874E+00 1.142E+02 -1.480E+02 -1.850E+02 -3.595E-01 -4.320E-01 -7.010E-01 | -6.601E+02 | 1.057E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.191E+02 | | 7.701E+00 2.304E+05 -1.276E+03 -9.682E+02 -4.404E+01 2.566E+05 -1.484E+06 3.042E+02 -1.554E+06 4.598E+02 9.995E+00 -4.537E+02 -1.475E+00 4.013E+03 3.490E+03 1.850E+03 9.659E+01 6.371E+02 -1.294E+03 -2.293E+01 -1.116E+04 -8.066E+00 2.687E+01 -1.887E+01 | -6.127E+01 | 1.303E+00

2.731E+03 | | -2.323E+02 1.282E+03 2.199E+06 -8.448E+03 1.607E+05 -1.320E+03 6.722E+04 -2.012E+03 -2.807E+04 -2.665E+03 -1.381E+03 2.946E+03 4.150E+02 4.590E+04 6.656E+04 3.769E+04 2.221E+03 6.152E+02 3.786E+04 3.344E+02 1.478E+02 1.302E+02 -1.539E+01 -1.151E+02 | 1.754E+03 | -5.074E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 340.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-3.620E-04 | 2.774E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.893E-07 | -2.545E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-6.320E-06 | 1.600E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.612E-06 | -5.373E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

8.115E-04 | 7.005E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.731E-04 | -1.037E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

9.427E-07 | -8.692E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 4.363E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

3.449E-07 | 2.027E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-4.943E-01 | 1.702E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

9.930E-02 | -3.746E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

3.957E-01 | 2.982E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

-6.327E-04 | -3.620E-04 | 1.784E-02 7.711E-02 -2.148E+02 -1.683E-01 2.416E+00 -4.721E-02 1.398E+00 -3.912E-02 -6.137E-01 -6.146E-02 -1.769E-02 5.164E-02 -3.908E-02 8.965E-01 1.383E+00 7.311E-01 4.137E-02 1.202E-02 7.347E-01 9.762E-03 5.647E-03 2.691E-03 -7.679E-04 -1.926E-03 | 4.398E-02 | -1.222E-03

1.726E-05 | -1.893E-07 | -4.696E-05 -1.105E+00 -4.010E-04 2.346E-03 3.807E-05 1.194E-02 -6.629E-02 1.370E-05 -7.233E-02 2.249E-05 -4.001E-06 -1.801E-05 3.126E-08 -5.972E-03 1.777E-04 8.735E-05 5.042E-06 2.980E-05 -4.501E-05 -1.002E-06 -5.192E-04 -1.185E-07 1.169E-06 -1.050E-06 | -2.660E-06 | 5.235E-08

-7.540E-07 | -6.320E-06 | 9.072E-04 3.007E-03 -6.747E+00 -4.912E-03 7.197E-02 -1.386E-03 4.096E-02 -1.138E-03 -1.730E-02 -1.784E-03 -5.096E-04 1.507E-03 -9.708E-04 2.608E-02 3.386E-02 2.127E-02 1.208E-03 3.494E-04 2.138E-02 2.771E-04 1.613E-04 7.829E-05 -2.233E-05 -5.603E-05 | 1.255E-03 | -3.497E-05

-3.099E-05 | -2.612E-06 | 6.312E-06 1.119E-01 -7.208E-04 -4.020E-01 3.853E-06 -7.078E-05 2.498E+01 -1.076E-07 3.201E-04 -2.140E-07 -1.163E-08 1.796E-07 -4.938E-08 -3.840E-05 -4.150E-06 -3.597E-02 3.473E-08 -2.048E-07 5.302E-02 1.965E-08 2.314E-06 5.778E-09 -7.080E-09 1.770E-09 | 6.045E-08 | -2.110E-09

8.322E-05 | 8.115E-04 | -9.733E-02 4.576E-02 8.175E+02 1.087E+00 -1.354E+01 2.474E-01 -2.439E+01 2.503E-01 5.743E+01 8.746E-01 6.371E-01 1.402E-01 6.530E-02 -6.502E+00 -1.314E+01 -4.605E+00 -3.208E-01 -9.984E-02 -4.662E+00 -7.552E-01 -3.456E-01 -1.833E-02 5.854E-03 1.379E-02 | -2.726E+00 | 6.574E-02

-1.909E-04 | -1.731E-04 | 5.397E-03 1.074E+02 -1.069E+01 1.176E-01 1.714E-01 -7.844E+00 1.602E+02 -1.892E-01 7.121E+01 -3.026E-01 2.970E-02 2.613E-01 -1.101E-03 -1.193E+00 -2.356E+00 -7.181E-01 -6.426E-02 -3.996E-02 -3.801E-01 1.909E-02 5.305E-01 1.968E-03 -1.501E-02 1.302E-02 | 6.692E-02 | -7.078E-04

1.044E-04 | 9.427E-07 | -2.735E-05 -3.232E-01 -2.783E-01 5.083E-01 -1.655E-02 5.264E-02 -4.668E+02 -2.090E-02 -4.110E+00 -8.564E-02 1.478E-01 -6.023E-02 1.298E-03 -7.614E-01 1.803E+00 -2.839E+00 4.698E-02 -1.471E-02 -3.866E+00 -2.986E-02 -5.915E-02 1.662E-03 -5.854E-03 4.333E-03 | -1.743E-01 | -1.600E-03

3.537E-05 | 1.267E+00 | -1.195E-06 -2.414E-02 2.924E-03 2.049E-05 -6.575E-05 2.501E-03 -4.488E-01 3.244E-05 1.726E+02 2.397E-05 1.237E-04 -1.424E-04 1.708E-06 -2.297E-04 2.396E-03 -2.347E-03 6.283E-05 -8.192E-07 -3.300E-03 -3.330E-05 1.236E+00 1.198E-06 -4.794E-07 -4.794E-07 | -3.842E-04 | -5.960E-07

-1.918E-05 | 3.449E-07 | -3.893E-05 -2.314E+00 -6.939E-01 3.411E-03 1.366E-01 2.380E-01 -4.255E+01 1.178E-03 -2.411E+02 -4.053E-01 -3.935E-01 -4.117E-01 -1.161E-01 -1.626E+00 -9.915E+00 -4.943E-02 -1.126E-01 -5.140E-02 -1.407E-01 -1.638E+00 -3.365E+00 -4.805E-03 -5.200E-03 -5.343E-03 | -7.120E+00 | 1.167E-01

-2.203E-01 | -4.943E-01 | 7.283E-02 9.561E+00 -6.756E+02 1.032E+01 2.720E+01 -1.288E+01 -1.151E+04 -1.932E+01 -5.151E+03 -8.266E+01 -2.814E+01 -3.207E+01 -1.048E+01 -2.078E+02 -9.744E+02 -1.360E+02 -1.238E+01 -5.650E+00 -1.605E+02 -1.460E+02 -1.828E+02 -6.170E-01 -5.895E-01 -2.826E-01 | -6.555E+02 | 1.038E+01

6.425E-01 | 9.930E-02 | 1.815E-02 -1.409E+00 -1.785E+02 -5.366E+00 1.955E+01 1.128E+00 2.023E+04 4.390E+00 -4.955E+03 -2.798E+01 -8.605E+01 -2.822E+01 -1.064E+01 -1.105E+02 -8.708E+02 7.838E+01 -9.344E+00 -4.103E+00 1.213E+02 -1.468E+02 -1.823E+02 -4.366E-01 -4.535E-01 -6.214E-01 | -6.437E+02 | 1.064E+01

-4.251E-01 | 3.957E-01 | -6.164E-02 -7.508E+00 5.222E+02 -5.980E+00 4.010E+00 1.111E+01 -8.490E+03 1.405E+01 -5.183E+03 -3.207E+01 -2.812E+01 -7.968E+01 -1.044E+01 -1.084E+02 -8.987E+02 1.041E+02 -1.017E+01 -4.030E+00 8.603E+01 -1.479E+02 -1.851E+02 -3.523E-01 -4.809E-01 -6.562E-01 | -6.616E+02 | 1.056E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.243E+02 | | 7.692E+00 2.304E+05 -1.263E+03 -9.713E+02 -4.480E+01 2.566E+05 -1.484E+06 3.051E+02 -1.554E+06 4.998E+02 -8.172E+01 -4.020E+02 -1.559E+00 4.018E+03 3.497E+03 1.849E+03 9.644E+01 6.371E+02 -1.296E+03 -2.345E+01 -1.116E+04 -3.299E+00 2.534E+01 -2.205E+01 | -6.444E+01 | 1.353E+00

2.740E+03 | | -2.324E+02 1.275E+03 2.200E+06 -8.481E+03 1.606E+05 -1.322E+03 6.072E+04 -2.014E+03 -2.806E+04 -3.060E+03 -7.996E+02 2.760E+03 4.147E+02 4.605E+04 6.683E+04 3.770E+04 2.223E+03 6.171E+02 3.786E+04 3.533E+02 1.667E+02 1.384E+02 -3.923E+01 -9.907E+01 | 1.738E+03 | -5.044E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

--------- Azimuth = 350.00 deg (with respect to AzimB1Up = 0.00 deg) ---------

op State | op | A - State | B - Input | Bd - Dstrb

Derivativs | States | Matrix | Matrix | Matrix

-4.112E-04 | 2.773E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

2.152E-06 | -2.532E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-5.277E-06 | 1.592E-04 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-6.275E-06 | -5.374E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

6.352E-04 | 7.107E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.981E-04 | -1.063E-03 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

3.826E-06 | -8.654E-05 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.267E+00 | 4.538E+00 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-1.221E-06 | 1.226E-07 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-5.178E-01 | 1.003E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

1.862E-01 | -3.549E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

3.322E-01 | 3.485E-01 | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 | 0.000E+00 | 0.000E+00

2.689E-05 | -4.112E-04 | 1.784E-02 7.602E-02 -2.148E+02 -1.685E-01 2.415E+00 -4.724E-02 1.131E+00 -3.905E-02 -6.149E-01 -6.759E-02 -6.077E-03 4.616E-02 -3.910E-02 9.046E-01 1.390E+00 7.320E-01 4.141E-02 1.211E-02 7.351E-01 1.002E-02 5.899E-03 2.769E-03 -1.208E-03 -1.553E-03 | 4.250E-02 | -1.275E-03

1.620E-05 | 2.152E-06 | -4.696E-05 -1.105E+00 -3.941E-04 2.344E-03 3.805E-05 1.194E-02 -6.632E-02 1.372E-05 -7.233E-02 2.357E-05 -7.988E-06 -1.510E-05 2.179E-08 -5.971E-03 1.759E-04 8.794E-05 5.031E-06 2.980E-05 -4.520E-05 -1.010E-06 -5.192E-04 1.096E-07 1.055E-06 -1.163E-06 | -3.299E-06 | 5.549E-08

1.930E-05 | -5.277E-06 | 9.072E-04 2.967E-03 -6.747E+00 -4.913E-03 7.197E-02 -1.387E-03 3.318E-02 -1.136E-03 -1.734E-02 -1.962E-03 -1.716E-04 1.348E-03 -9.713E-04 2.632E-02 3.406E-02 2.130E-02 1.209E-03 3.521E-04 2.139E-02 2.847E-04 1.687E-04 8.055E-05 -3.513E-05 -4.519E-05 | 1.212E-03 | -3.651E-05

-2.082E-05 | -6.275E-06 | 6.608E-06 1.119E-01 -7.035E-04 -4.020E-01 3.897E-06 -7.071E-05 2.498E+01 -1.311E-07 3.201E-04 -2.204E-07 2.713E-08 1.488E-07 -4.814E-08 -3.816E-05 -4.087E-06 -3.597E-02 3.464E-08 -2.057E-07 5.302E-02 2.350E-08 2.321E-06 4.286E-09 -6.195E-09 1.485E-09 | 1.991E-07 | -2.874E-09

-3.060E-03 | 6.352E-04 | -9.732E-02 4.937E-02 8.174E+02 1.090E+00 -1.354E+01 2.477E-01 -2.265E+01 2.499E-01 5.744E+01 9.193E-01 5.612E-01 1.713E-01 6.548E-02 -6.555E+00 -1.318E+01 -4.614E+00 -3.209E-01 -1.004E-01 -4.667E+00 -7.559E-01 -3.462E-01 -1.886E-02 8.918E-03 1.119E-02 | -2.713E+00 | 6.597E-02

-1.061E-04 | -1.981E-04 | 5.398E-03 1.074E+02 -1.069E+01 1.186E-01 1.717E-01 -7.845E+00 1.605E+02 -1.896E-01 7.121E+01 -3.214E-01 8.554E-02 2.242E-01 -9.775E-04 -1.212E+00 -2.365E+00 -7.178E-01 -6.408E-02 -3.996E-02 -3.789E-01 1.935E-02 5.308E-01 -9.176E-04 -1.364E-02 1.452E-02 | 7.447E-02 | -7.711E-04

-7.013E-05 | 3.826E-06 | -2.537E-05 -3.232E-01 -2.962E-01 5.043E-01 -1.609E-02 5.271E-02 -4.673E+02 -2.026E-02 -4.115E+00 -6.379E-02 1.485E-01 -8.283E-02 1.284E-03 -7.439E-01 1.810E+00 -2.830E+00 4.684E-02 -1.450E-02 -3.858E+00 -3.053E-02 -5.987E-02 5.888E-04 -5.493E-03 5.042E-03 | -1.732E-01 | -1.526E-03

1.945E-05 | 1.267E+00 | -9.392E-07 -2.414E-02 2.918E-03 2.561E-05 -6.418E-05 2.501E-03 -4.494E-01 4.867E-05 1.726E+02 4.674E-05 1.067E-04 -1.556E-04 1.793E-06 -2.066E-04 2.409E-03 -2.338E-03 6.305E-05 0.000E+00 -3.293E-03 -3.330E-05 1.236E+00 7.190E-07 -9.587E-07 -4.794E-07 | -1.708E-04 | -2.980E-07

9.213E-06 | -1.221E-06 | -3.910E-05 -2.314E+00 -6.952E-01 2.730E-03 1.366E-01 2.380E-01 -4.261E+01 1.280E-03 -2.411E+02 -4.035E-01 -3.943E-01 -4.128E-01 -1.160E-01 -1.622E+00 -9.919E+00 -4.913E-02 -1.124E-01 -5.132E-02 -1.405E-01 -1.637E+00 -3.364E+00 -4.808E-03 -5.248E-03 -5.290E-03 | -7.118E+00 | 1.166E-01

-1.199E-01 | -5.178E-01 | 7.994E-02 1.004E+01 -7.376E+02 1.024E+01 2.862E+01 -1.371E+01 -8.470E+03 -2.001E+01 -5.127E+03 -8.190E+01 -2.893E+01 -3.226E+01 -1.049E+01 -2.071E+02 -9.721E+02 -1.353E+02 -1.228E+01 -5.641E+00 -1.534E+02 -1.459E+02 -1.825E+02 -6.548E-01 -5.481E-01 -2.890E-01 | -6.533E+02 | 1.039E+01

6.186E-01 | 1.862E-01 | 4.409E-03 -3.079E+00 -5.633E+01 -7.026E+00 1.716E+01 3.499E+00 2.024E+04 7.643E+00 -4.960E+03 -2.876E+01 -8.596E+01 -2.722E+01 -1.063E+01 -1.004E+02 -8.632E+02 1.015E+02 -9.090E+00 -3.938E+00 1.444E+02 -1.469E+02 -1.825E+02 -3.887E-01 -4.692E-01 -6.529E-01 | -6.443E+02 | 1.065E+01

-4.962E-01 | 3.322E-01 | -5.502E-02 -6.303E+00 4.621E+02 -4.312E+00 4.978E+00 9.564E+00 -1.155E+04 1.150E+01 -5.201E+03 -3.227E+01 -2.713E+01 -8.056E+01 -1.042E+01 -1.187E+02 -9.101E+02 8.024E+01 -1.048E+01 -4.193E+00 5.566E+01 -1.477E+02 -1.851E+02 -3.634E-01 -5.203E-01 -6.029E-01 | -6.626E+02 | 1.052E+01

op Output | This colmn | C - Output | D - Trnsmt | Dd - DTsmt

Measurmnts | is blank | Matrix | Matrix | Matrix

1.174E+03 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.263E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00

-2.316E+02 | | 7.689E+00 2.304E+05 -1.253E+03 -9.766E+02 -4.548E+01 2.566E+05 -1.484E+06 3.058E+02 -1.554E+06 5.246E+02 -1.706E+02 -3.379E+02 -1.758E+00 4.045E+03 3.511E+03 1.846E+03 9.617E+01 6.370E+02 -1.300E+03 -2.361E+01 -1.116E+04 1.576E+00 2.301E+01 -2.457E+01 | -8.161E+01 | 1.483E+00

2.748E+03 | | -2.324E+02 1.289E+03 2.200E+06 -8.547E+03 1.606E+05 -1.324E+03 4.695E+04 -2.010E+03 -2.812E+04 -3.374E+03 -2.020E+02 2.478E+03 4.138E+02 4.646E+04 6.719E+04 3.774E+04 2.225E+03 6.219E+02 3.788E+04 3.669E+02 1.799E+02 1.425E+02 -6.186E+01 -7.993E+01 | 1.662E+03 | -5.319E+01

1.210E+01 | | 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.549E+00 9.549E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00 | 0.000E+00