



TOTAL EAST STABILITY LIMITS ANALYSIS FOR ALL LINES I/S AND OUTAGE CONDITIONS (TE-23) APPENDICES

A Report by the
New York Independent System Operator

September 2023

Appendices Table of Contents

TRANSFER CASES	3
APPENDIX A: TRANSFER CASE INTERFACE FLOW REPORT/ANGLE AND VOLTAGE RESPONSES FOR ALL LINES IN SERVICE	4
APPENDIX B: TRANSFER CASE INTERFACE FLOW REPORT/ANGLE AND VOLTAGE RESPONSES WITH 5018 O/S.....	16
APPENDIX C: TRANSFER CASE INTERFACE FLOW REPORT/ANGLE AND VOLTAGE RESPONSES WITH 5018 O/S AND ANY SVC/STATCOM O/S	28

Transfer Cases

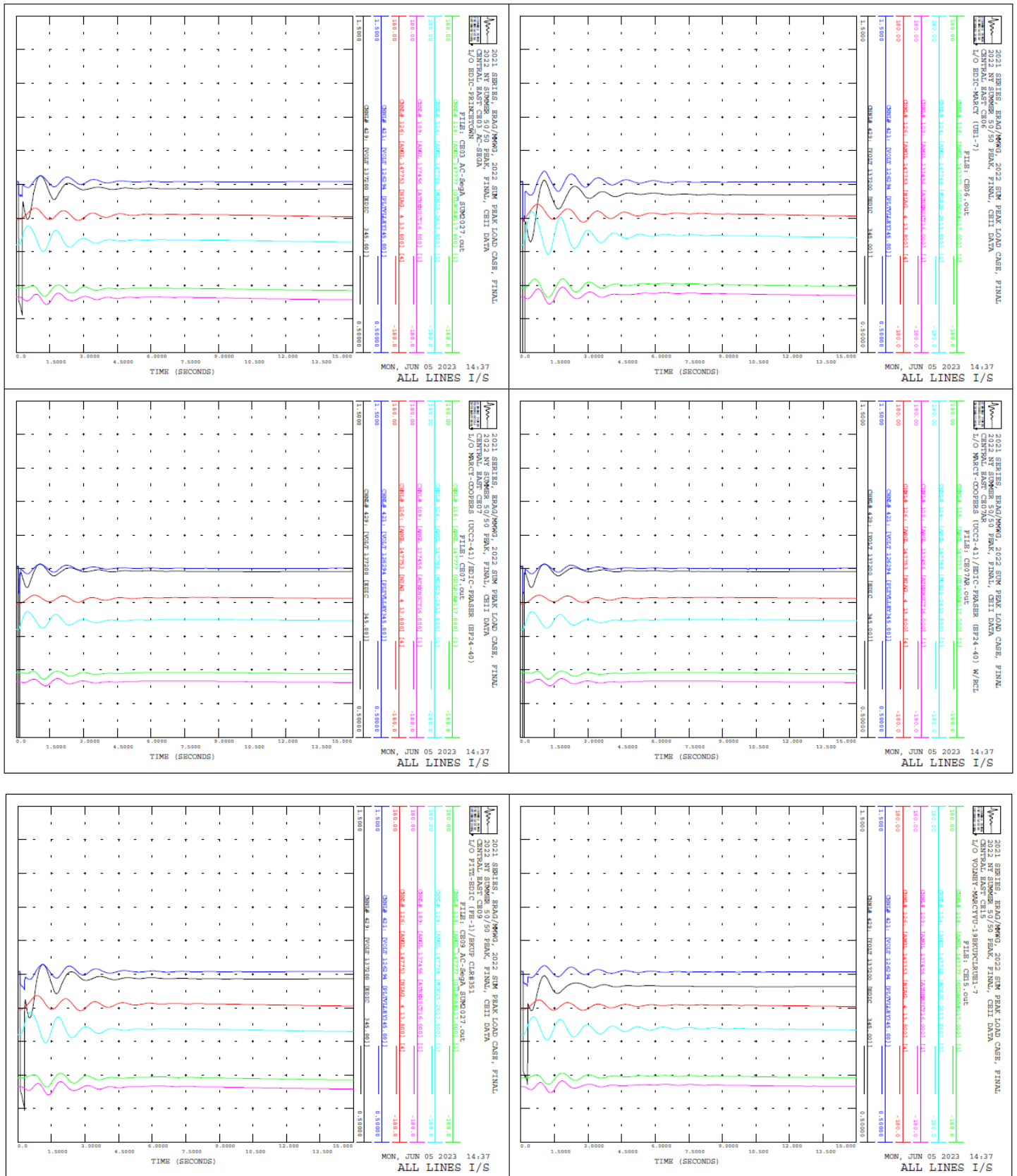
Transfer Cases	
A	TE 8415, Marcy Statcom I/S, Leeds I/S, Fraser I/S, 5018 I/S
B	TE 7560, Marcy Statcom I/S, Leeds I/S, Fraser I/S, 5018 O/S
C	TE 7560, Any SVC/Statcom O/S, 5018 O/S

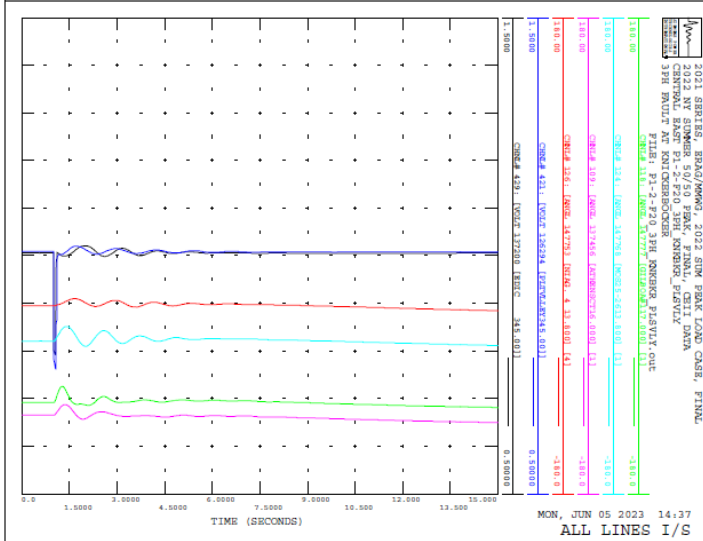
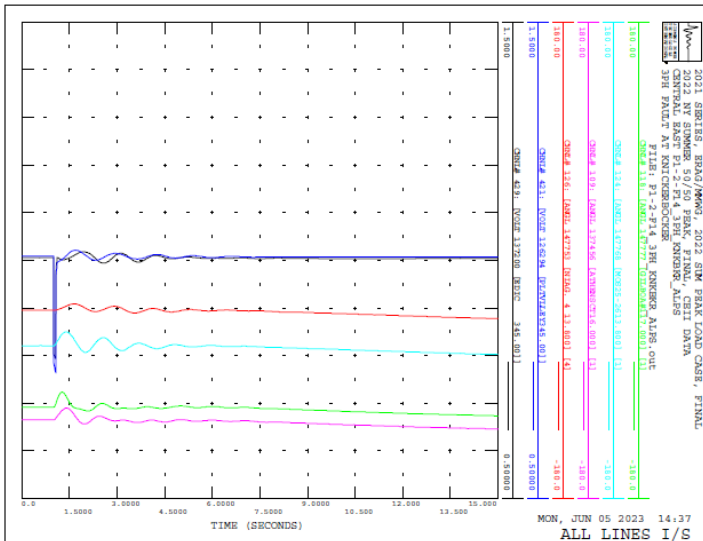
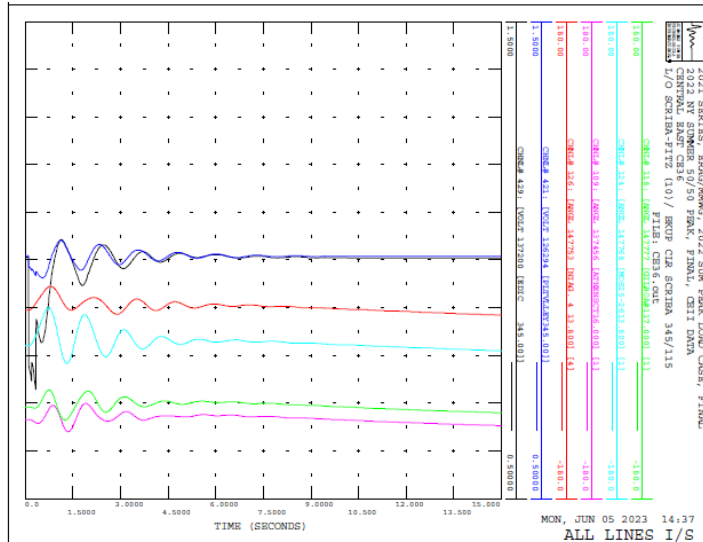
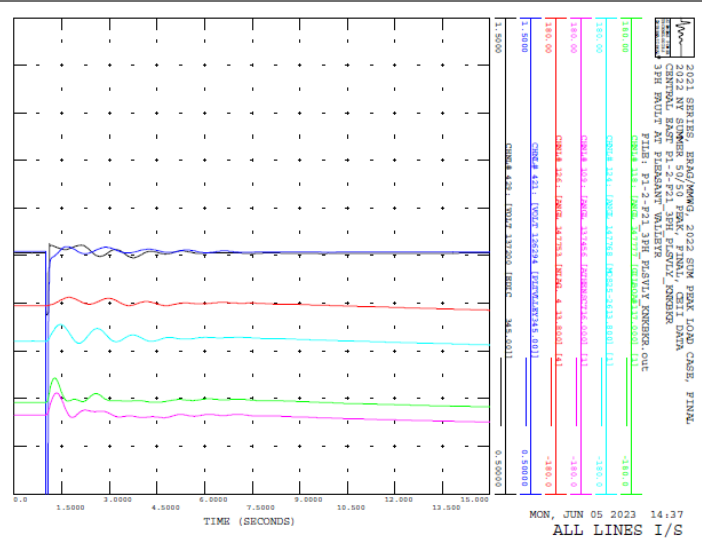
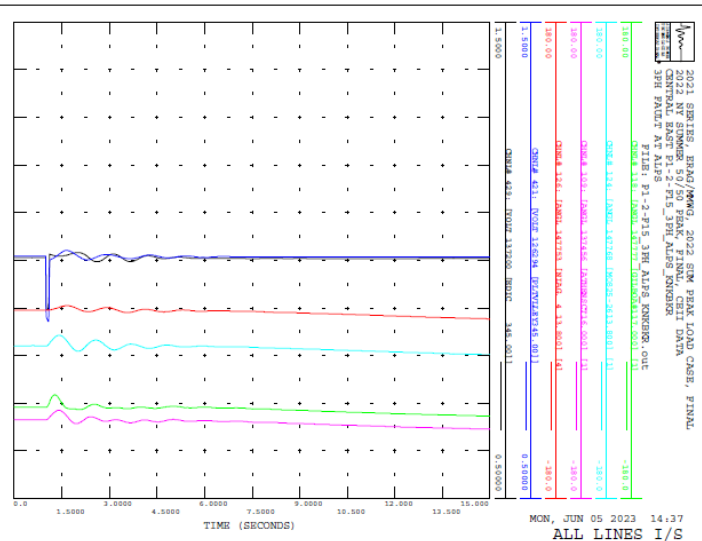
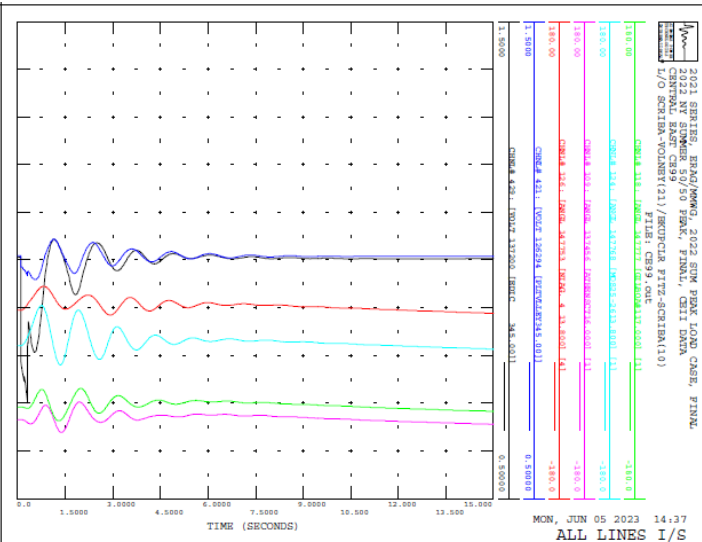
Appendix A: Transfer Case Interface Flow Report/Angle and Voltage Responses for All Lines In Service

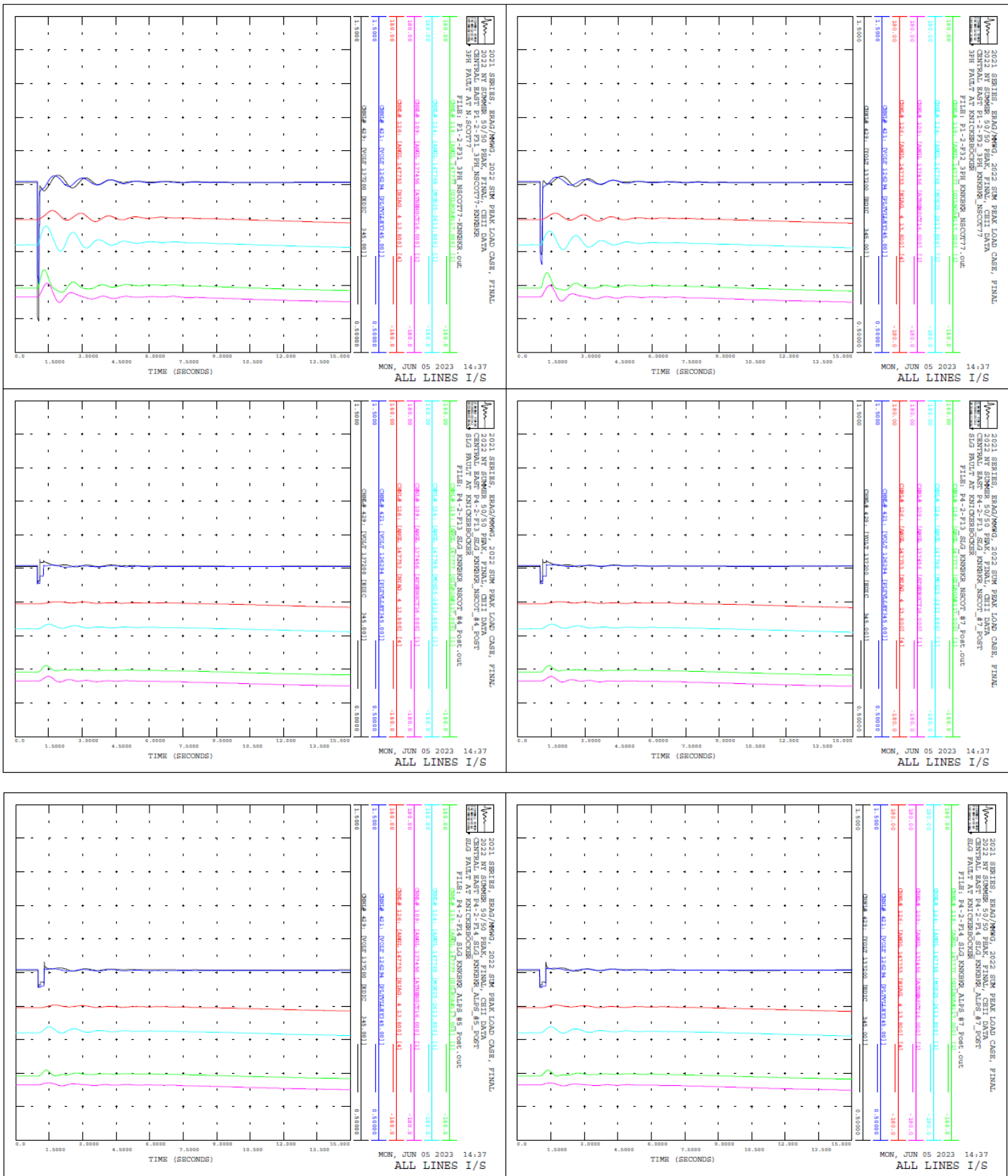
INTERFACE FLOW REPORT

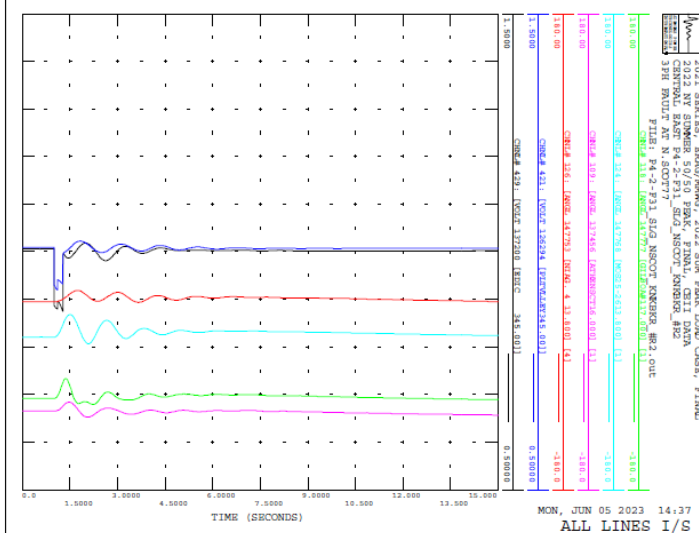
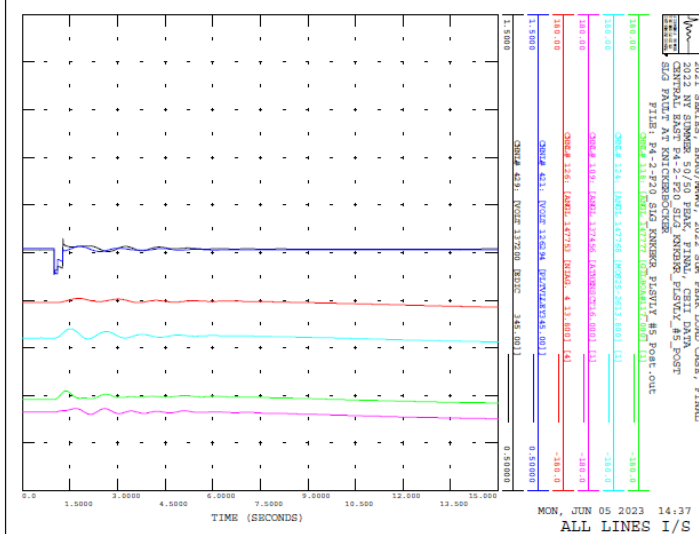
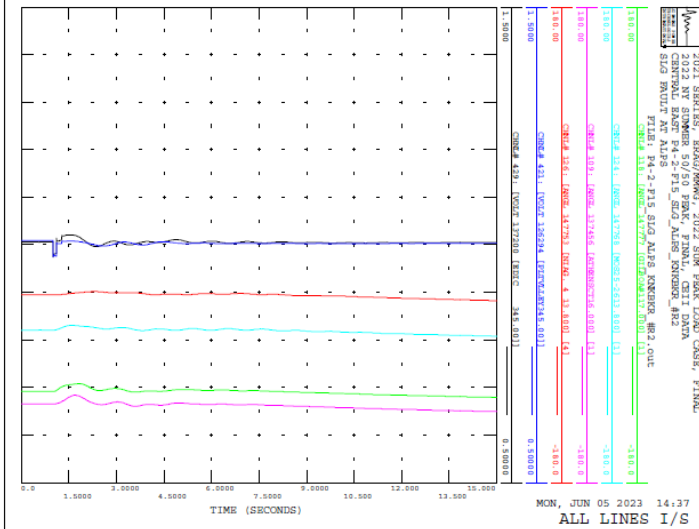
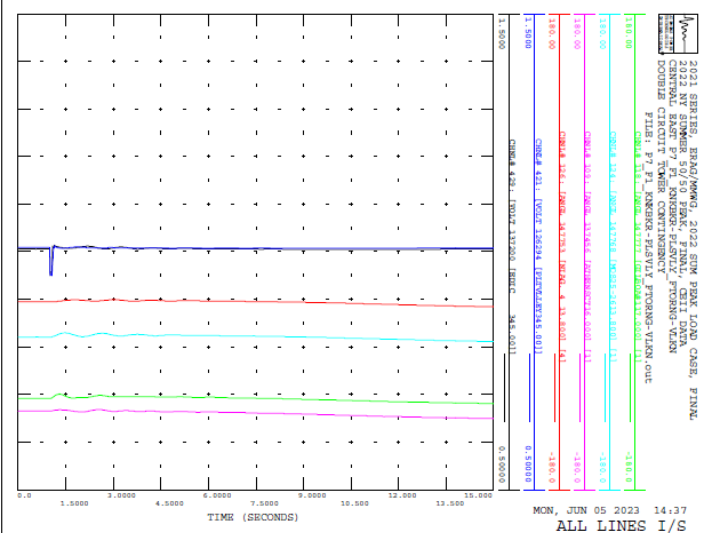
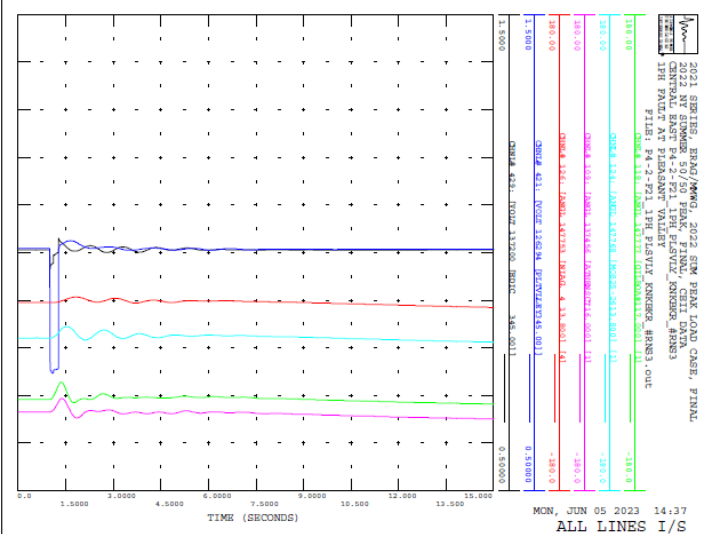
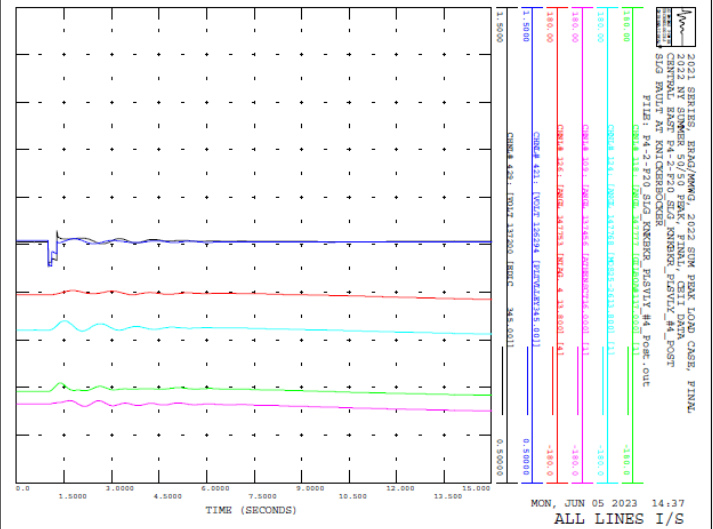
Interface	MW	MVAr	Interface	MW	MVAr
DYSINGER-EAST	3172.6	-317.4	DYSE-CLOSE	8451.0	350.6
WEST-CENTRAL	1823.8	-339.2	WESTC-CLOSE	7101.8	583.3
VOLNEY-EAST	4083.6	-503.0	VOLNEY-CLOSE	7945.1	441.4
MOSES-SOUTH	2992.0	665.8	MOSES-CLOSE	2497.9	591.8
CENTRAL-EAST	4075.8	-163.2	TOTAL-EAST	8416.6	-84.5
UPNY-SENY	5204.8	54.3	UPNY-SENY-CL	7222.6	551.2
UPNY-CONED	8493.3	566.7	UPNY-CON-CL	10293.1	866.4
MILLWOOD-SO	8379.0	-65.2	LIPA-IMPORT	1729.4	125.0
DNWDIE-SO-PL	6520.9	-1384.6	DNWDIE-SO-PC	8320.6	-1085.0
DNWDIE-SO-OP	5596.4	-1161.4	ABC-JK-PAR	978.2	515.3
SENY-115kV	165.4	-83.0	SENY-F-To-G	2031.6	-128.8
PJM-NY	4745.7	554.3	NE-NY-WCSC	-1065.9	182.7
ON-NY	3208.3	261.4	ONT-MICH-PAR	-1.7	13.7

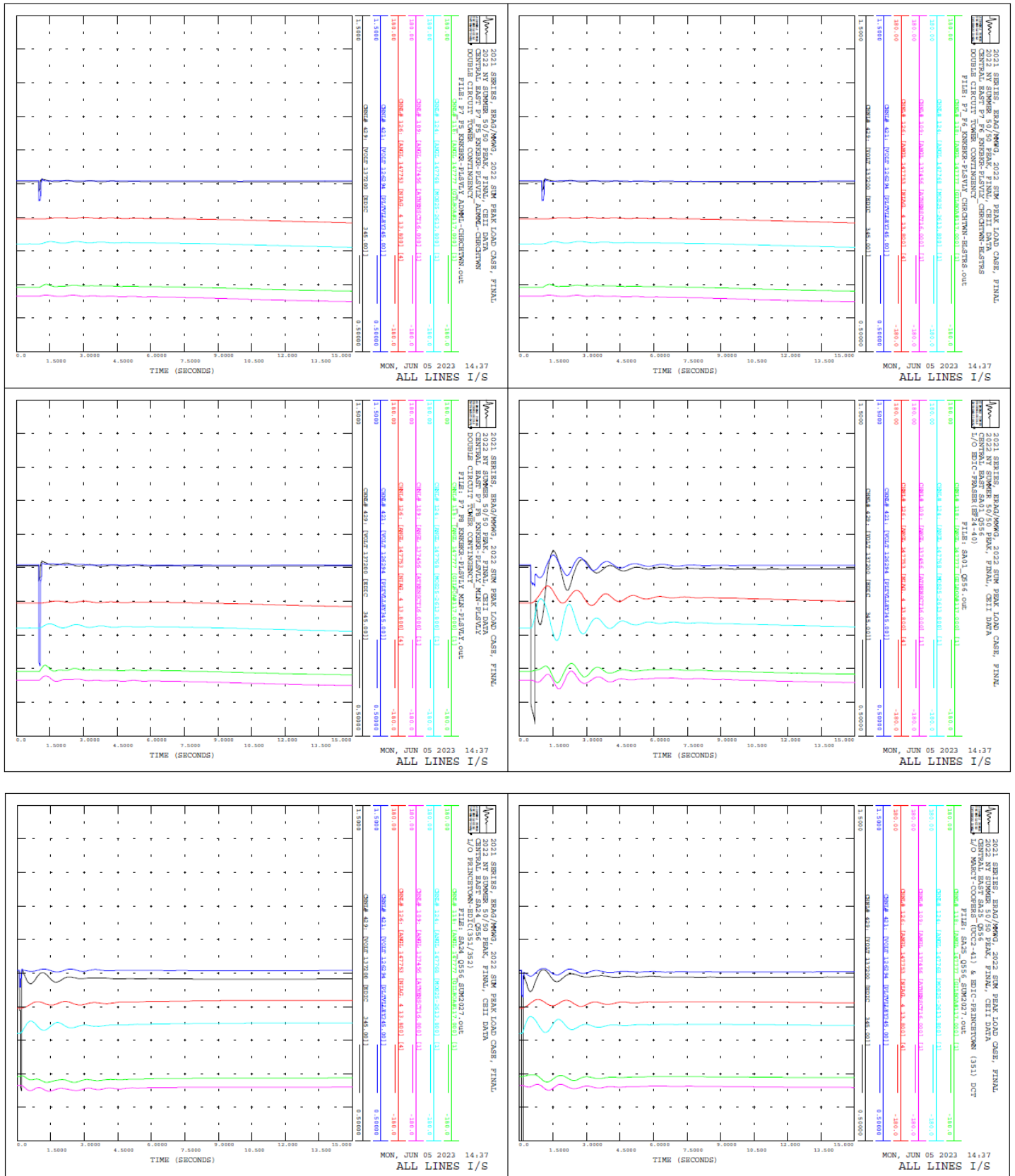
ANGLE AND VOLTAGE RESPONSES

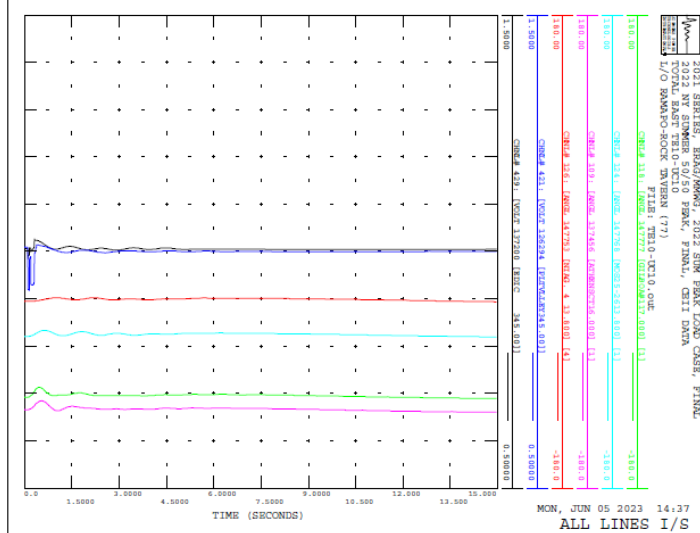
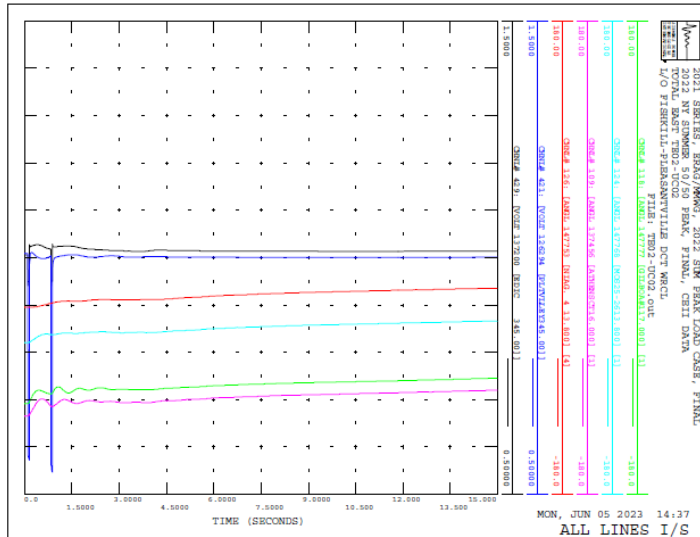
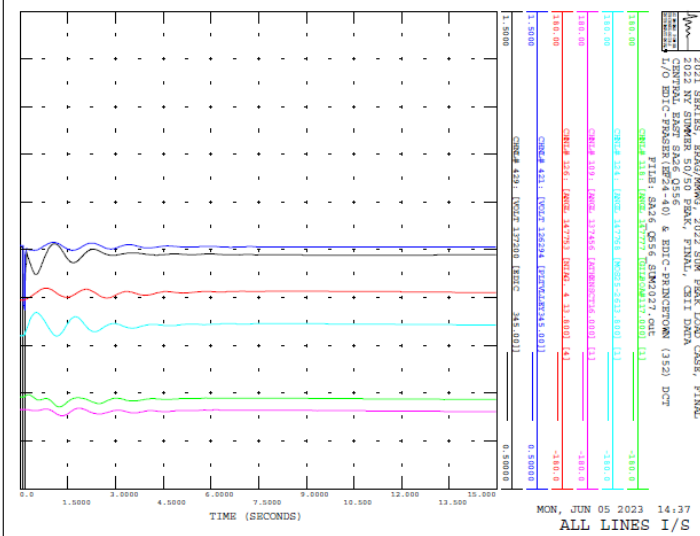
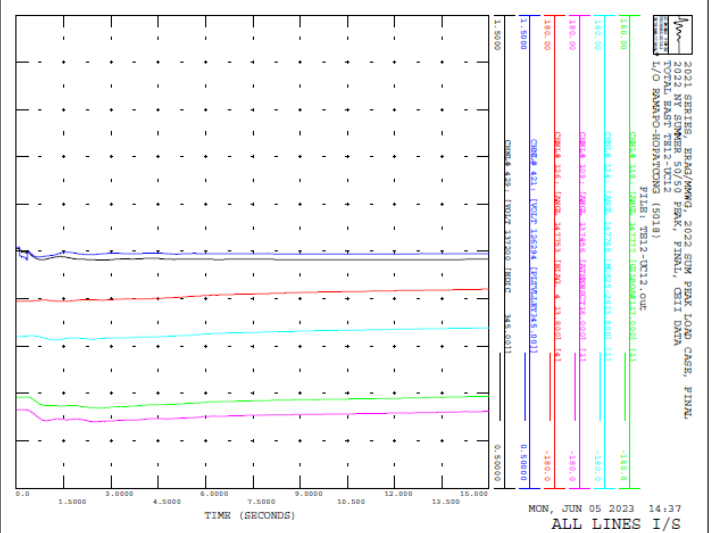
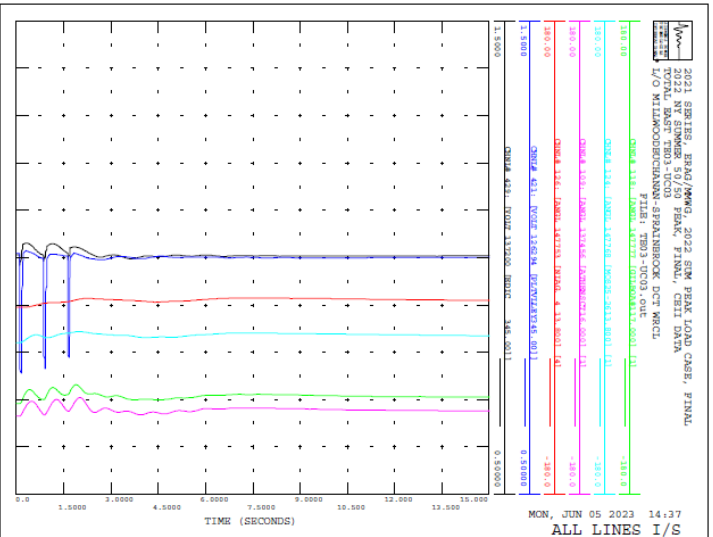
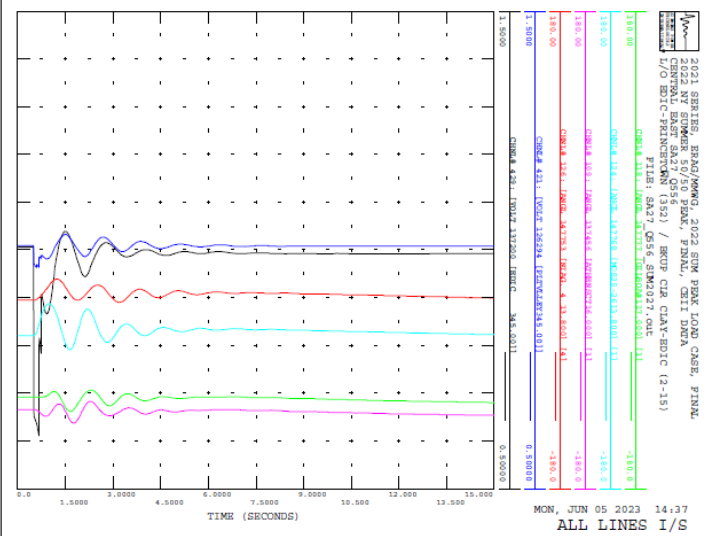


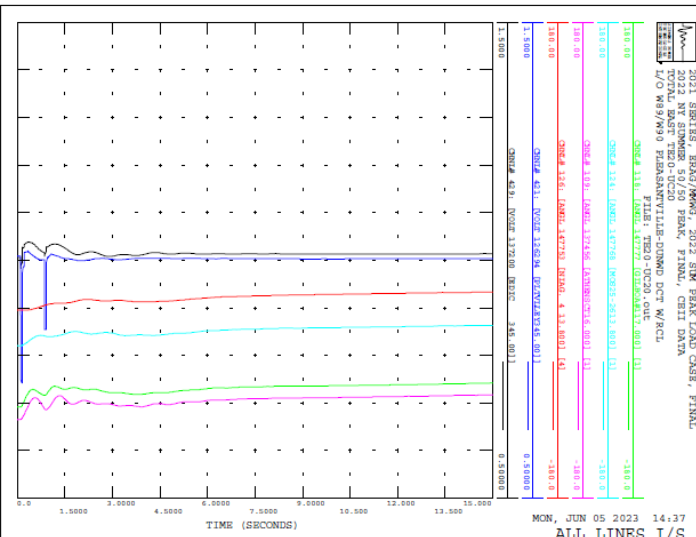
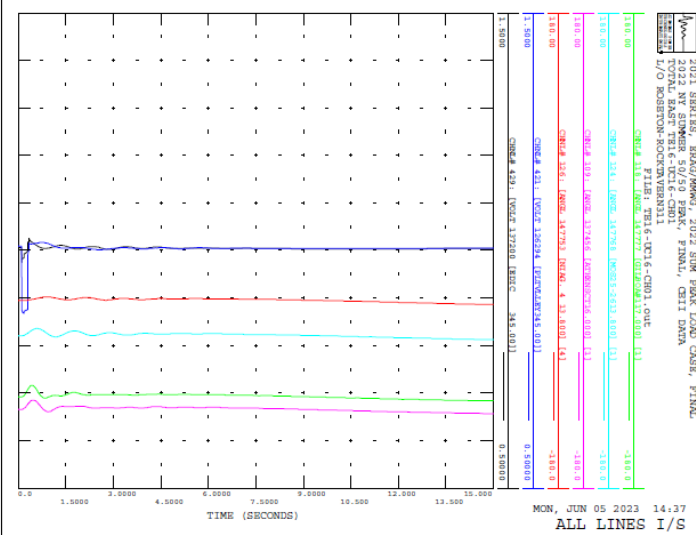
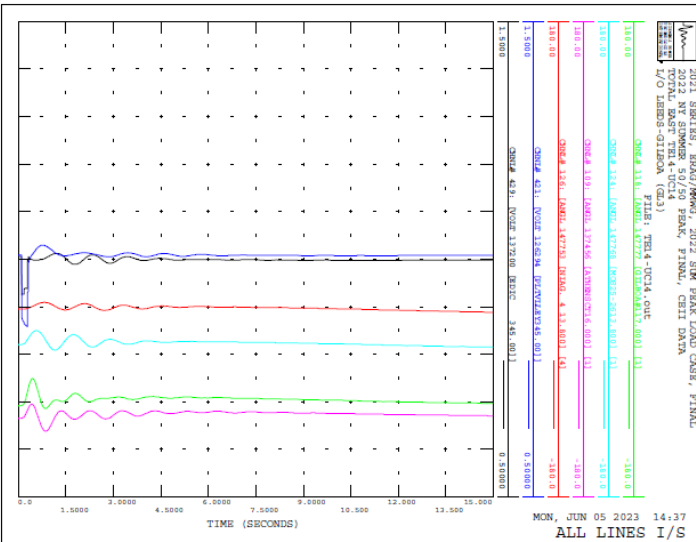
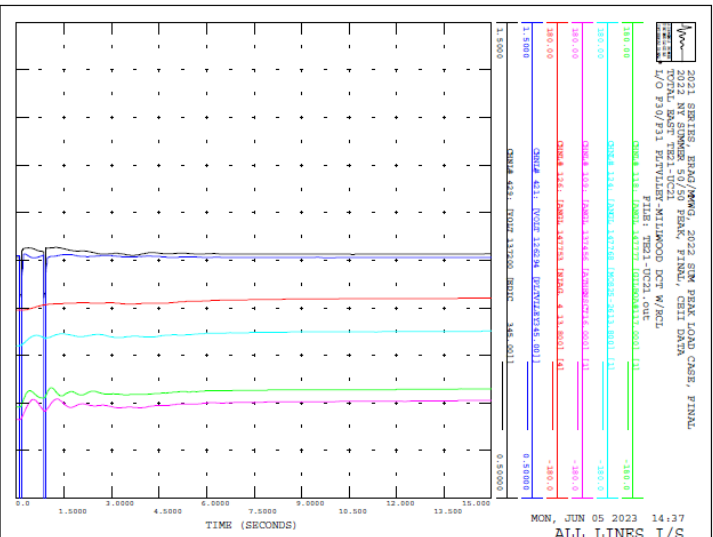
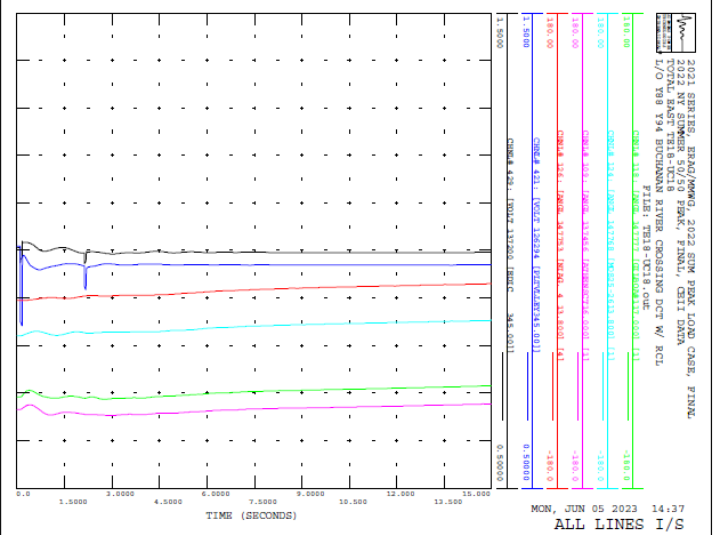
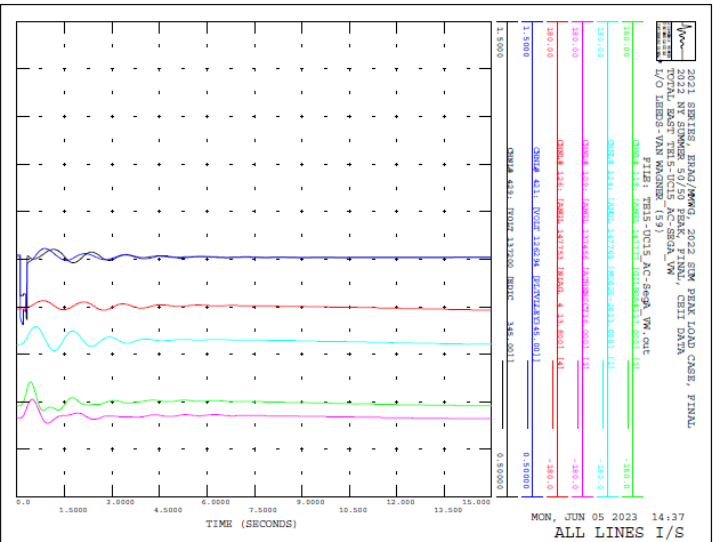


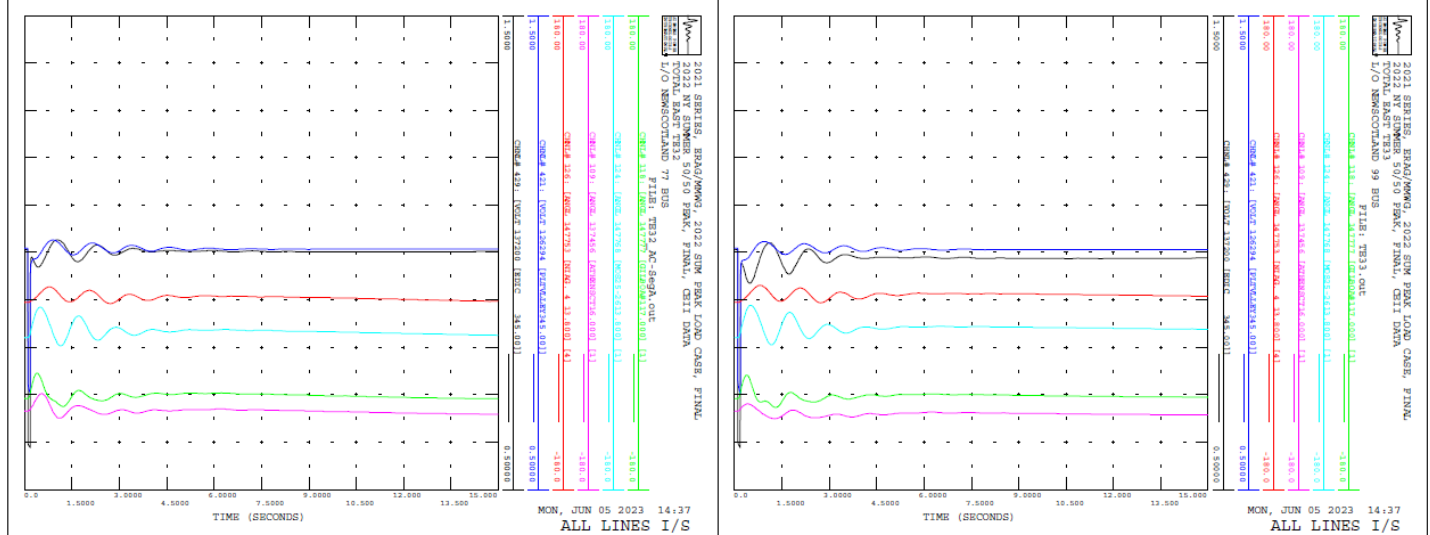
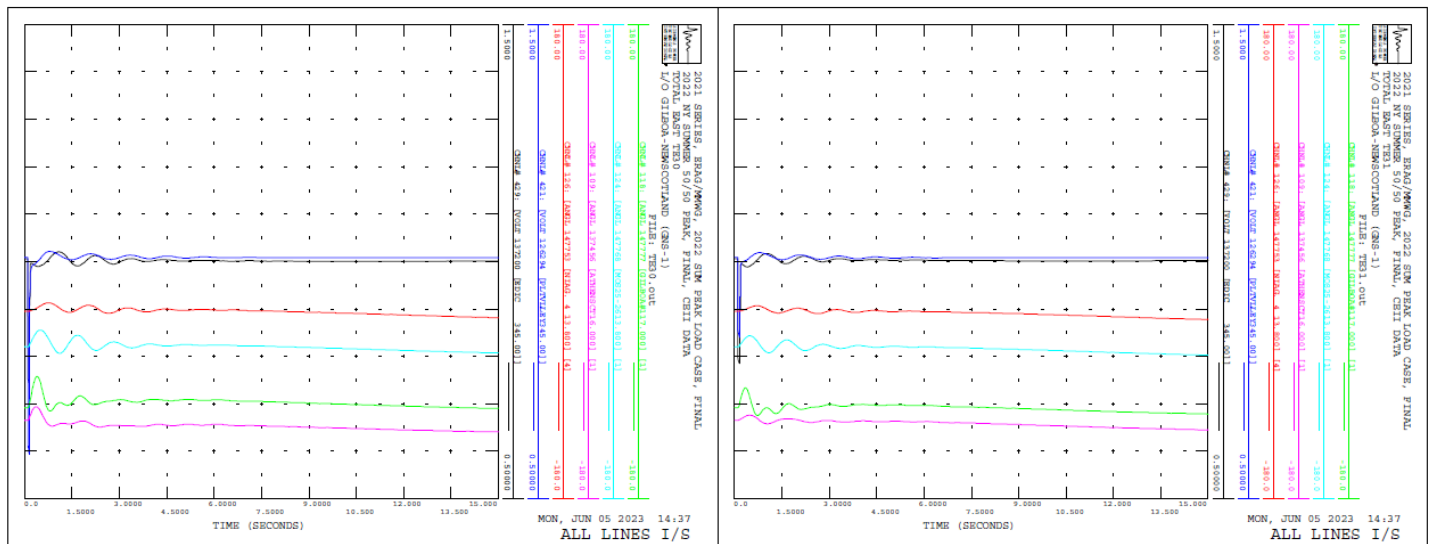
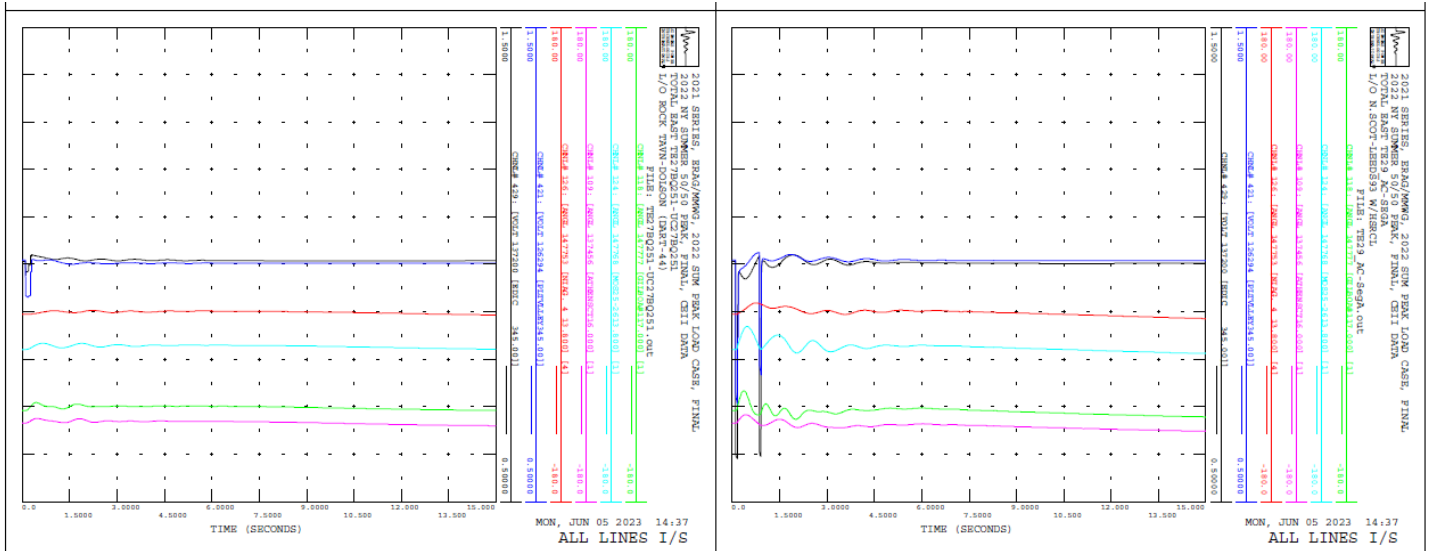


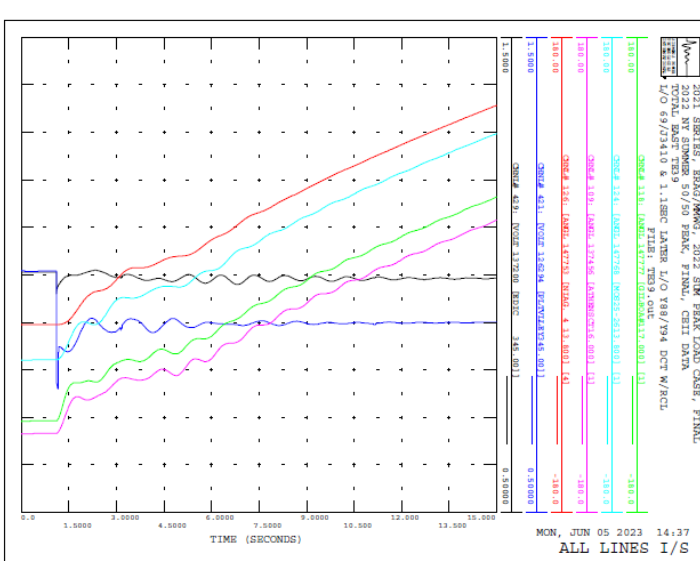
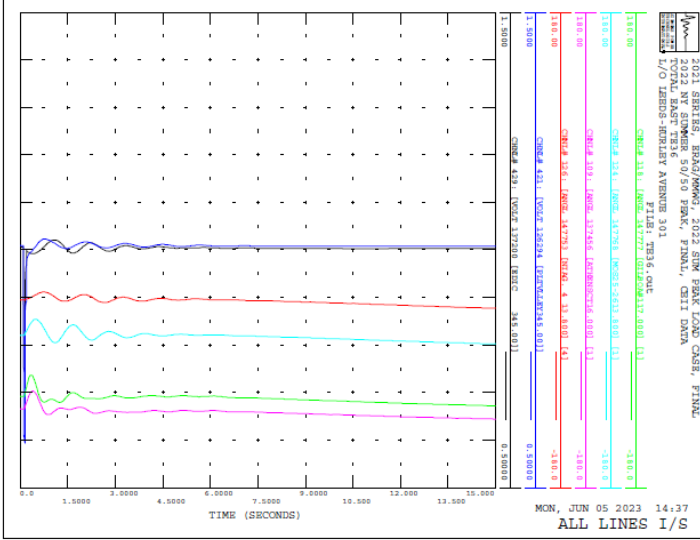
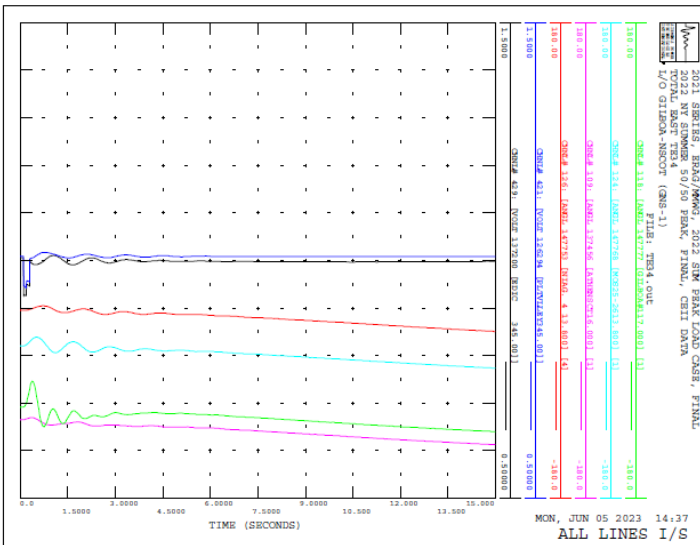
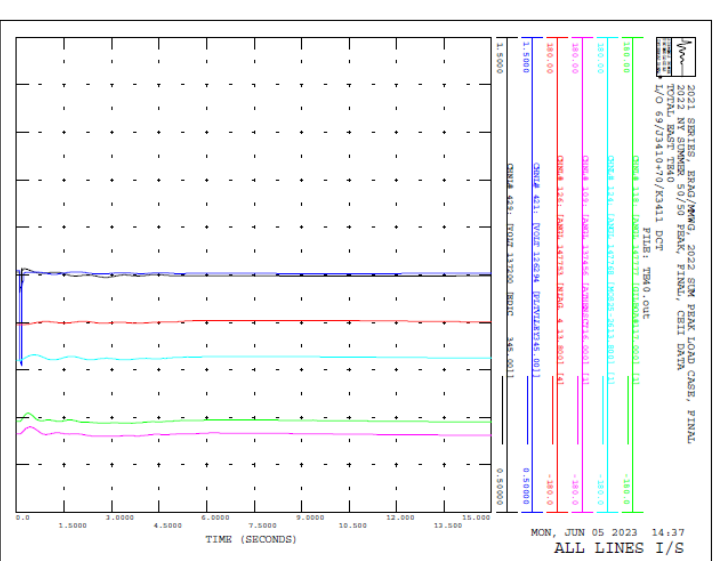
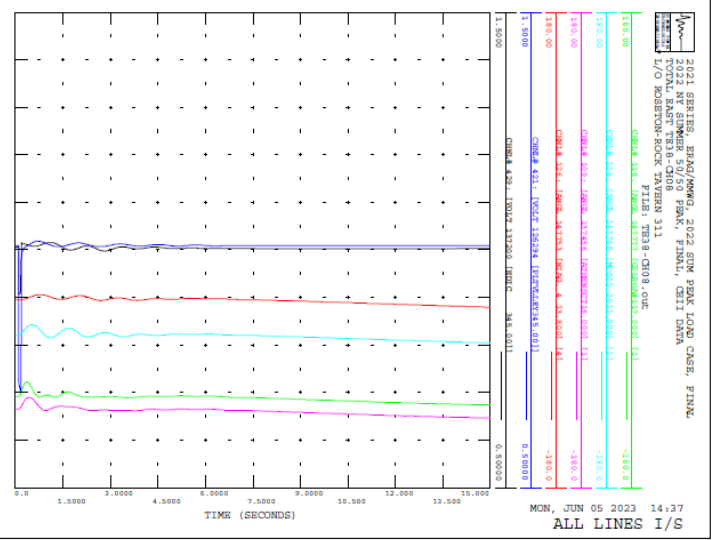
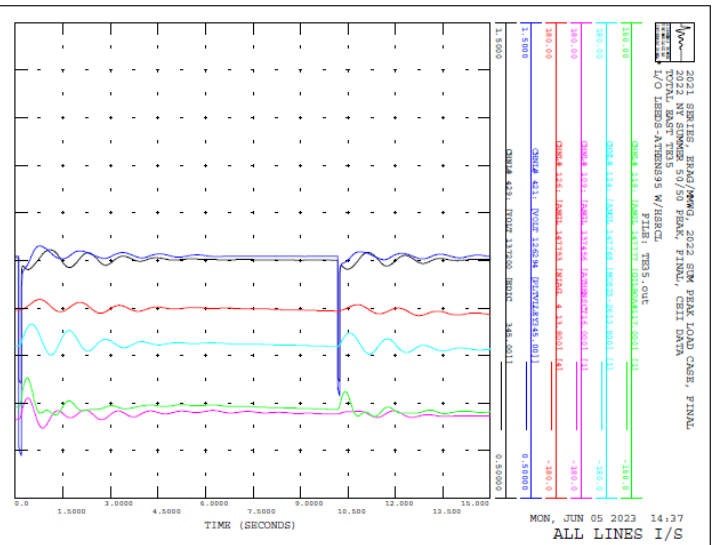


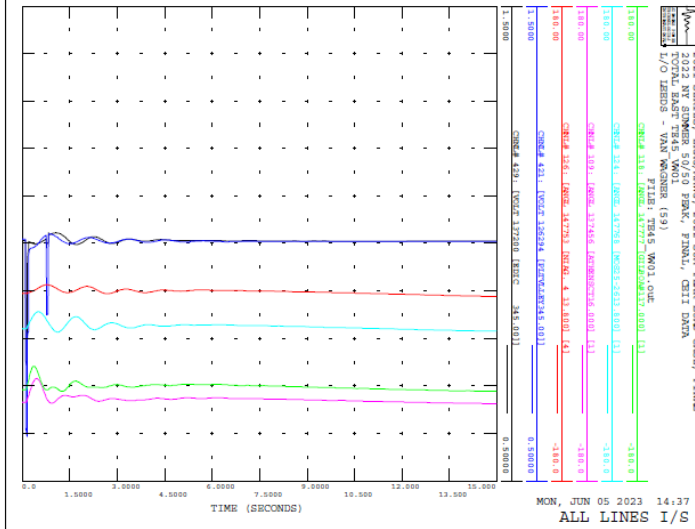
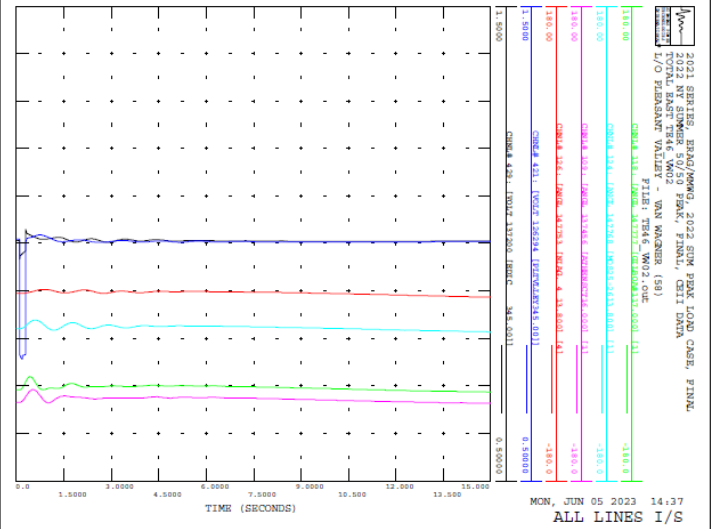
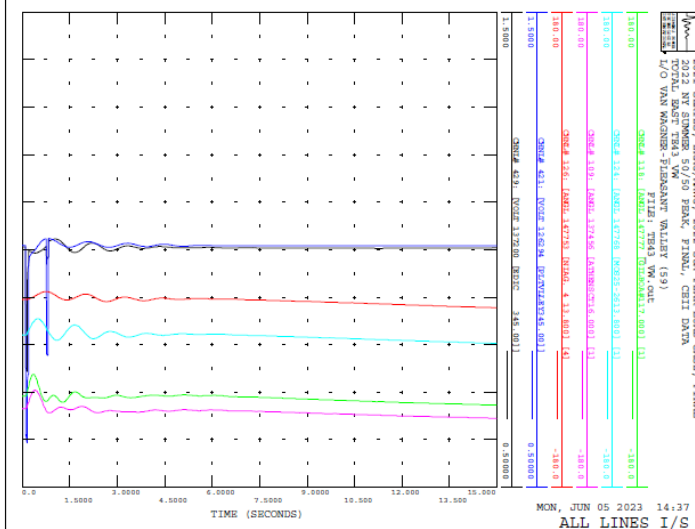
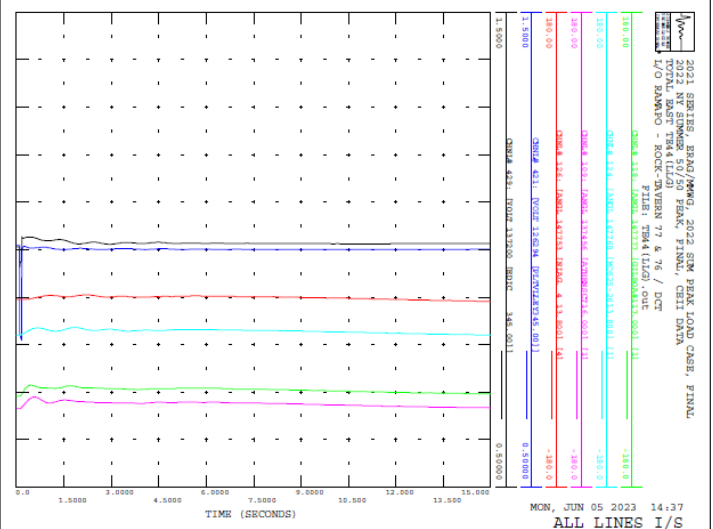
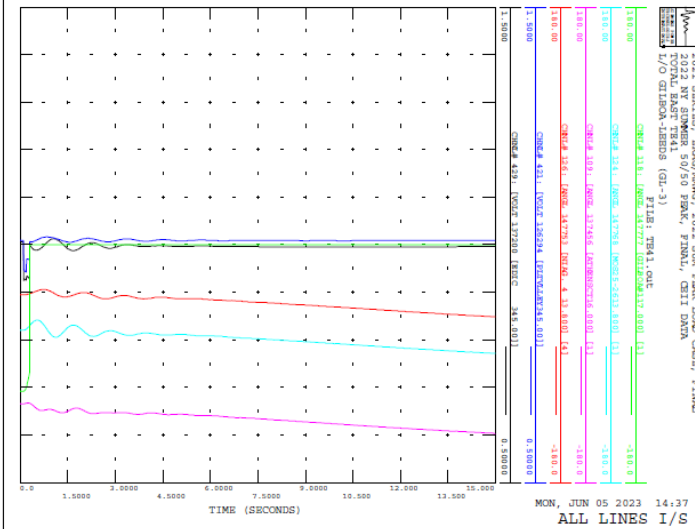
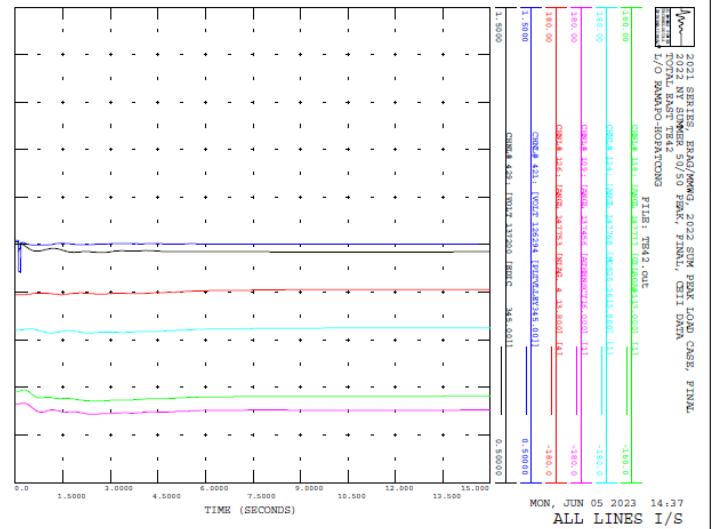


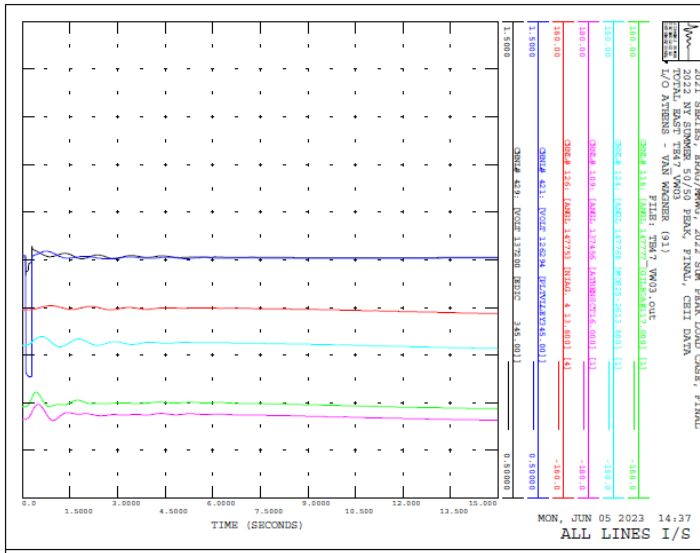










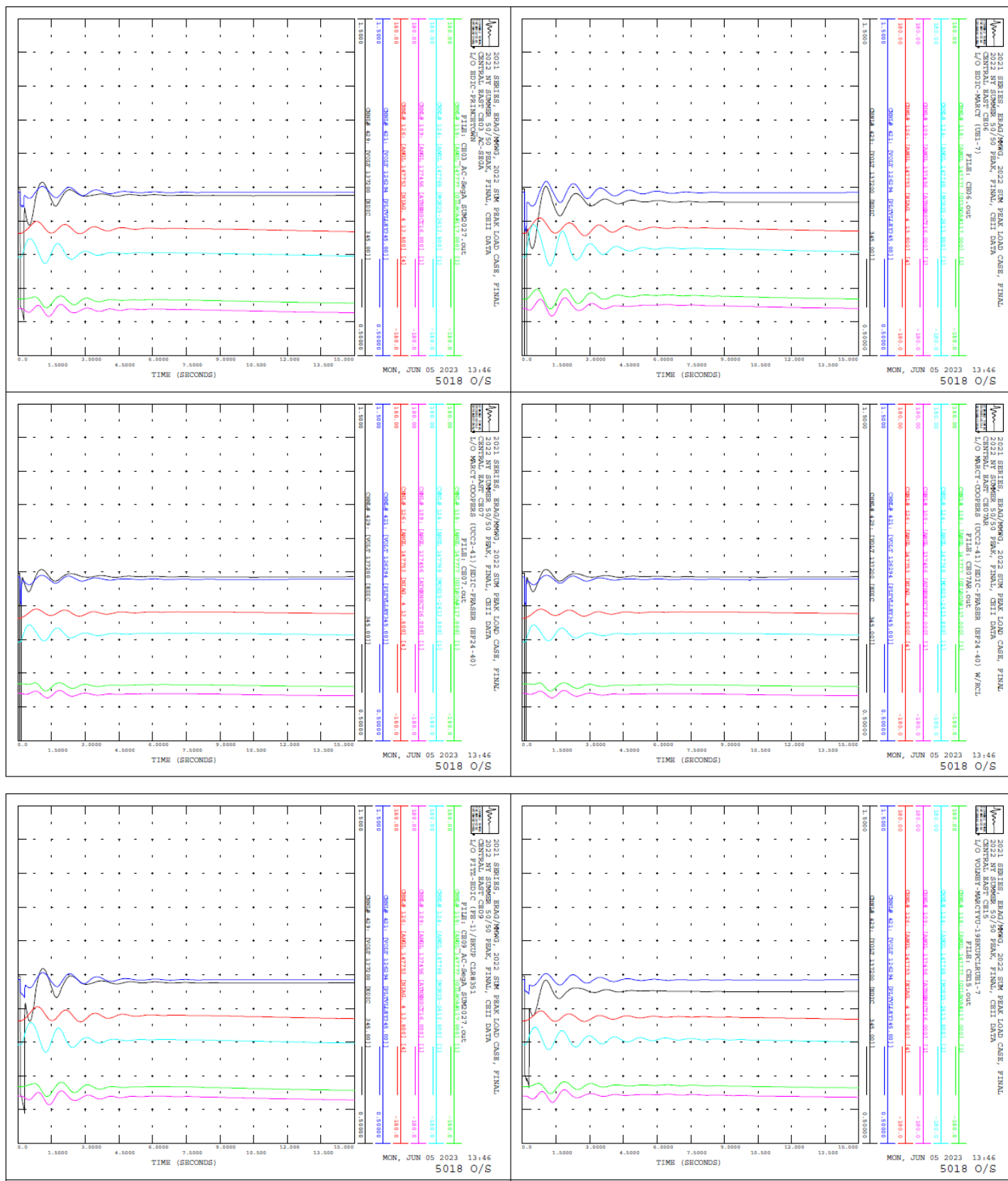


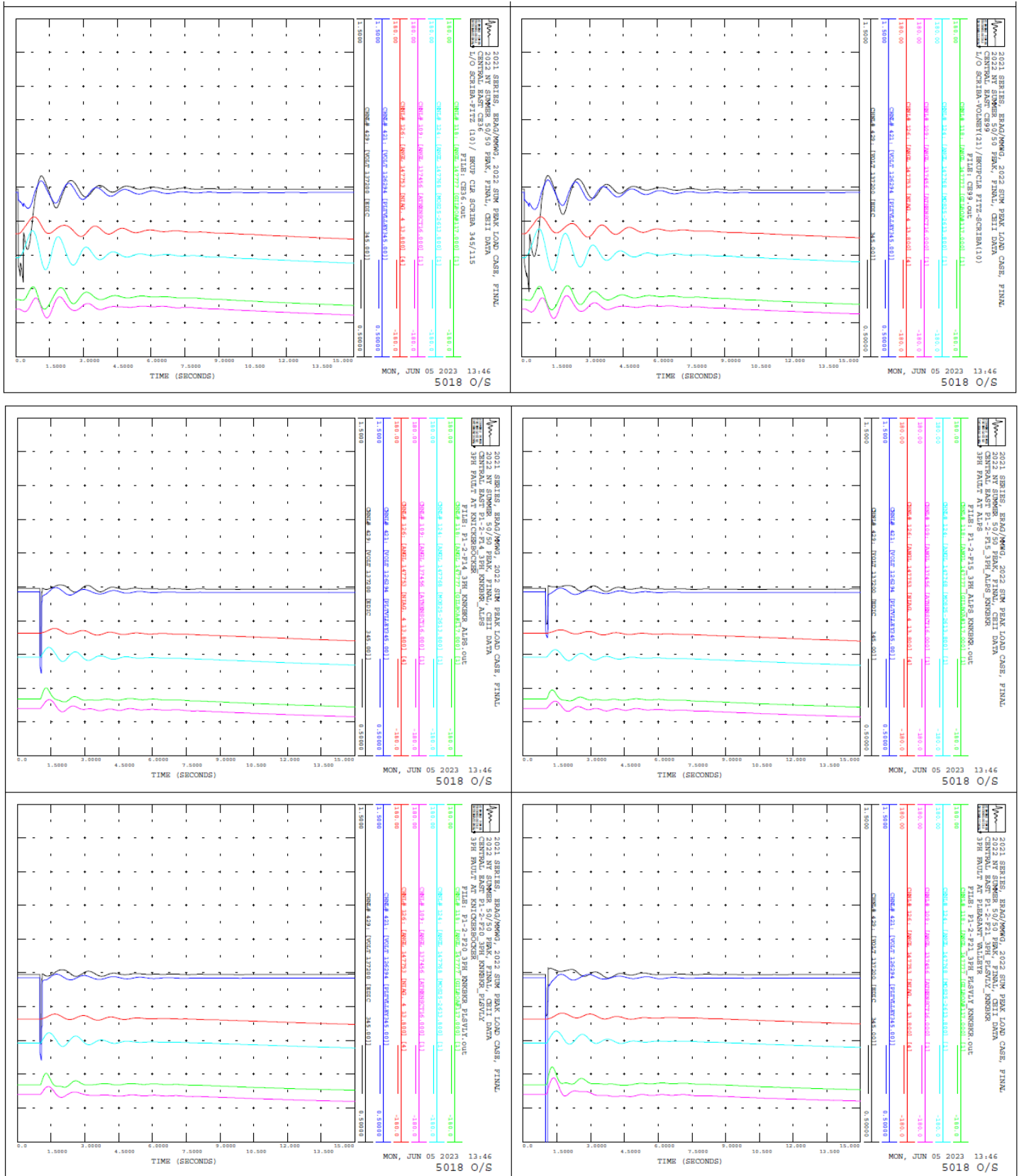
Appendix B: Transfer Case Interface Flow Report/Angle and Voltage Responses for 5018 O/S

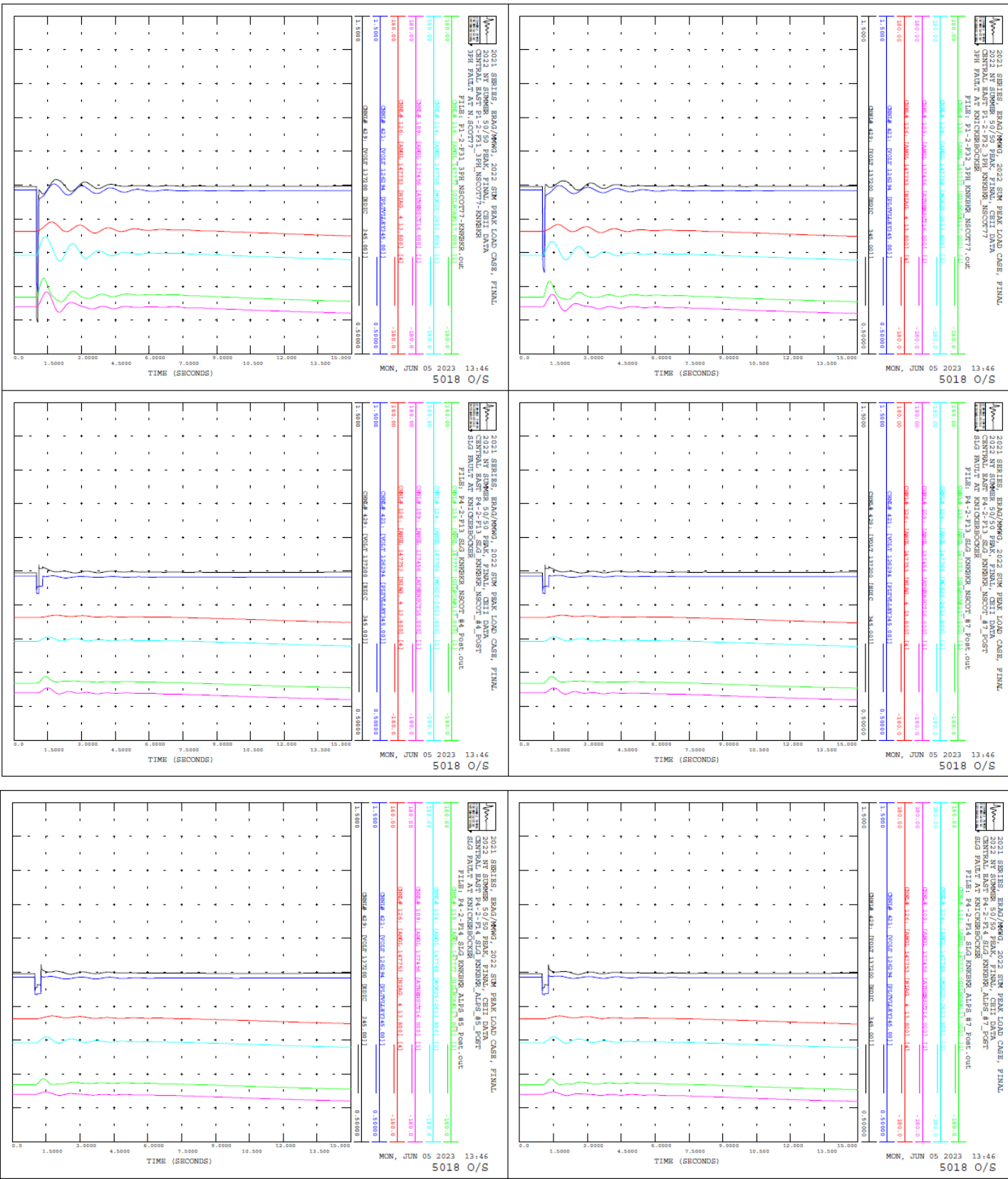
INTERFACE FLOW REPORT

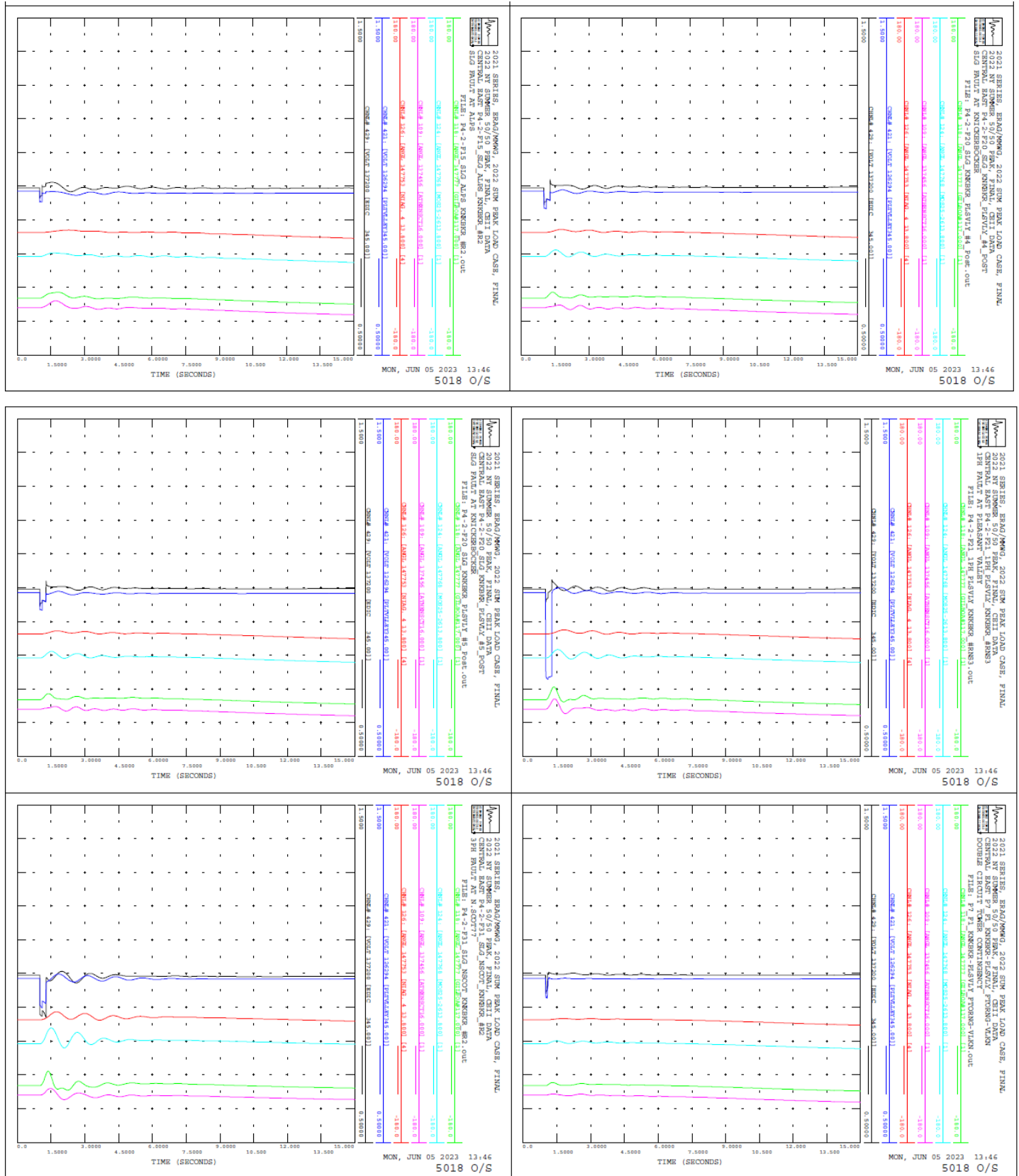
Interface	MW	MVAr	Interface	MW	MVAr
DYSINGER-EAST	2765.4	-198.0	DYSE-CLOSE	7229.2	65.6
WEST-CENTRAL	1446.4	-133.6	WESTC-CLOSE	5908.7	357.0
VOLNEY-EAST	4039.4	-479.8	VOLNEY-CLOSE	7005.9	19.6
MOSES-SOUTH	2891.8	768.3	MOSES-CLOSE	2498.5	652.0
CENTRAL-EAST	4061.9	-91.5	TOTAL-EAST	7562.4	-479.3
UPNY-SENY	3430.2	-187.4	UPNY-SENY-CL	6332.6	221.8
UPNY-CONED	8183.0	715.4	UPNY-CON-CL	10290.5	1100.5
MILLWOOD-SO	8371.8	50.2	LIPA-IMPORT	1729.2	82.7
DNWDIE-SO-PL	6210.2	-1355.4	DNWDIE-SO-PC	8317.7	-970.4
DNWDIE-SO-OP	5290.5	-1107.2	ABC-JK-PAR	1854.7	434.7
SENY-115kV	164.0	-83.9	SENY-F-To-G	1990.8	-73.6
PJM-NY	4152.6	74.6	NE-NY-WCSC	-1066.1	276.9
ON-NY	2479.2	333.7	ONT-MICH-PAR	-2.5	6.4

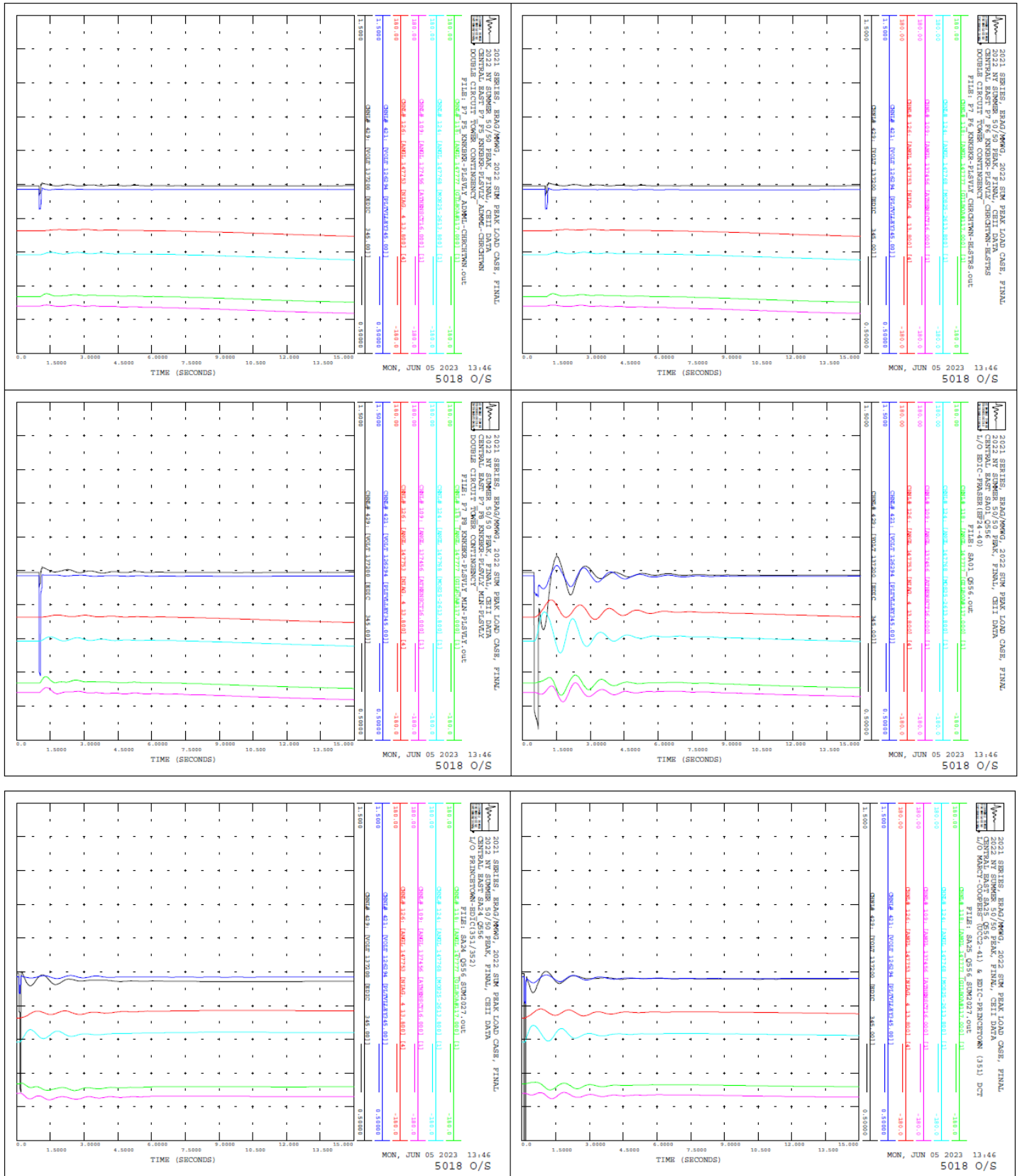
ANGLE AND VOLTAGE RESPONSES

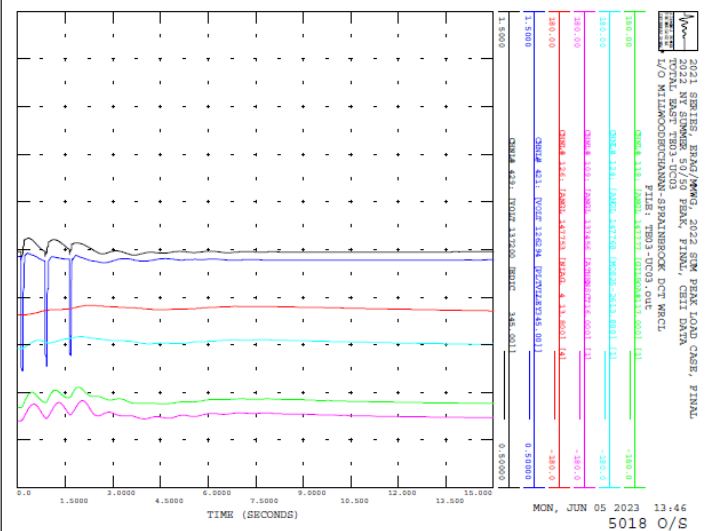
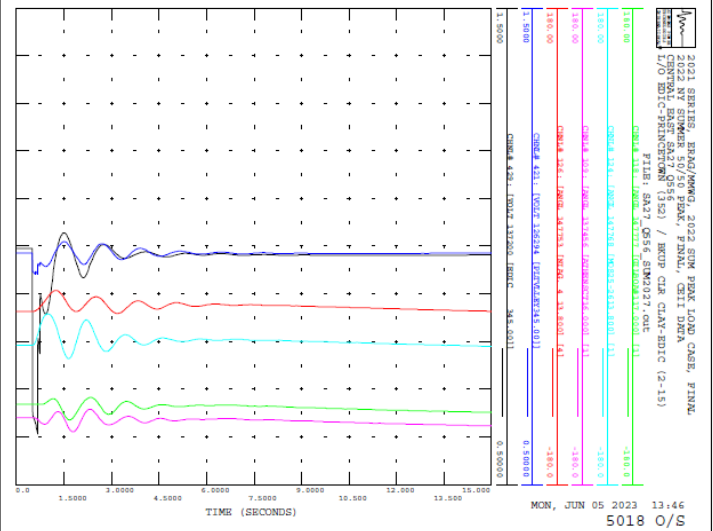


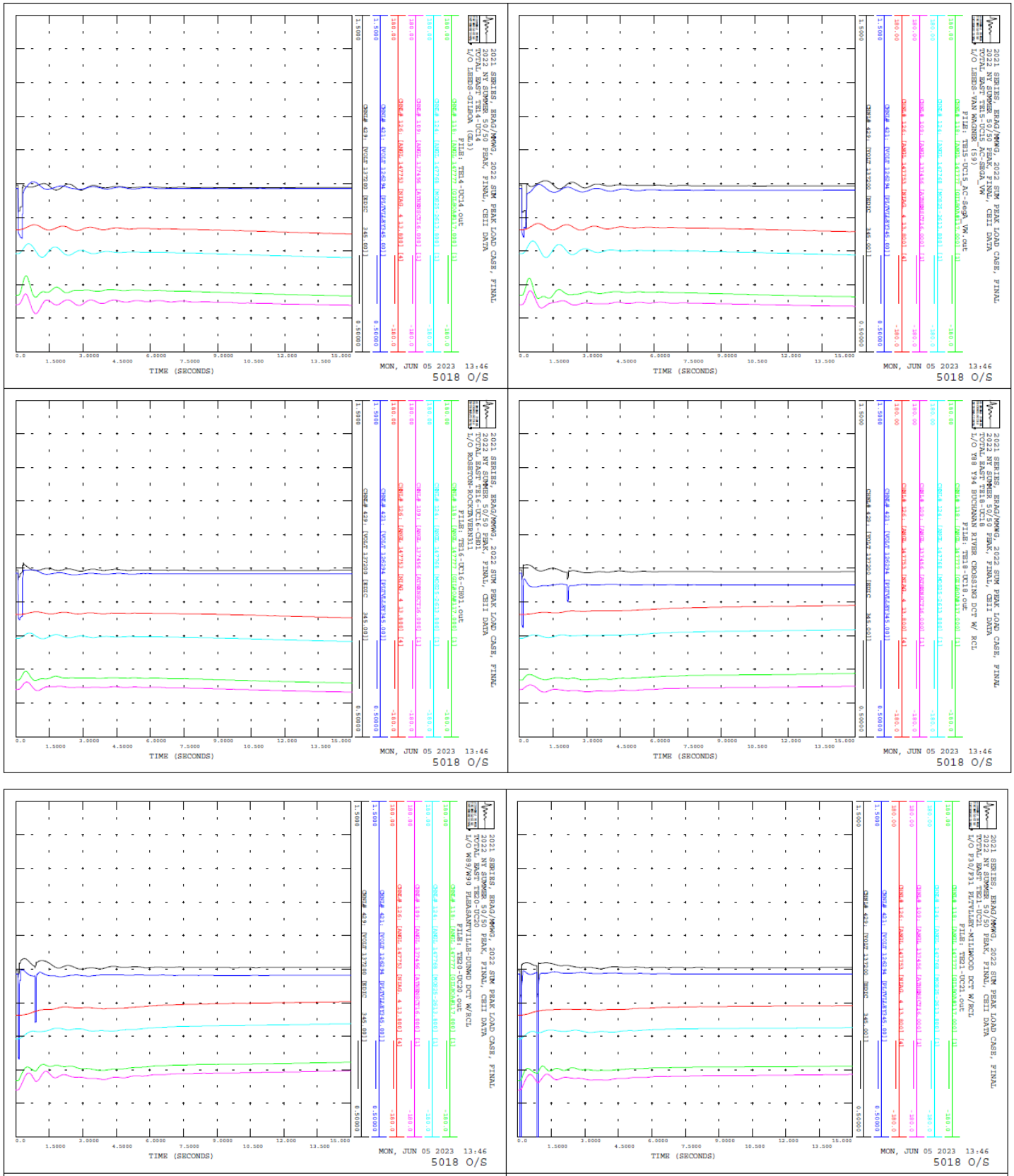


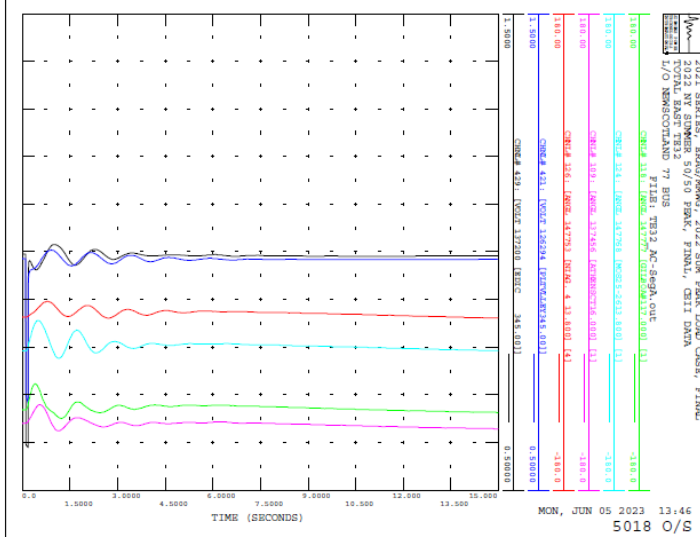
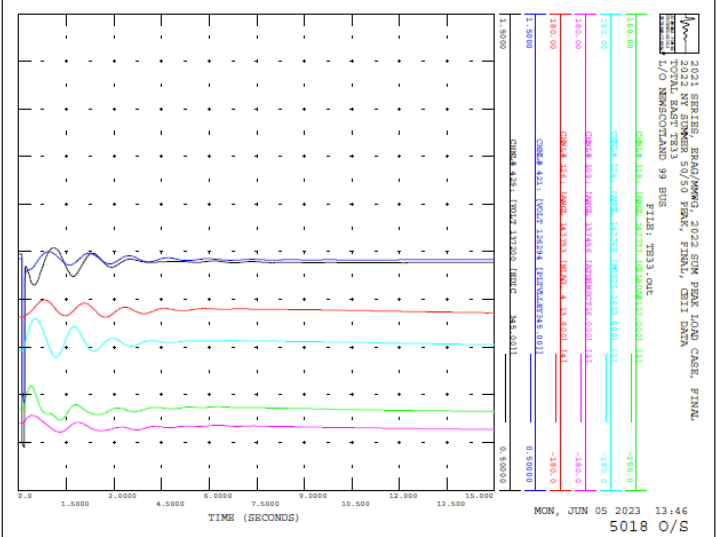
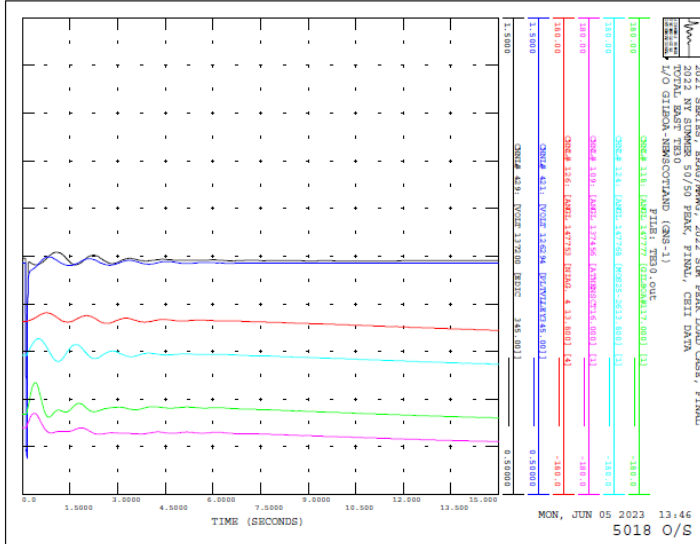
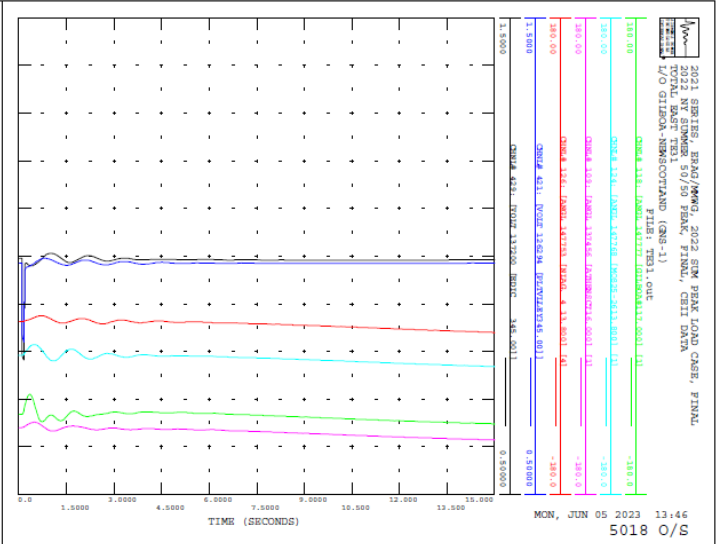
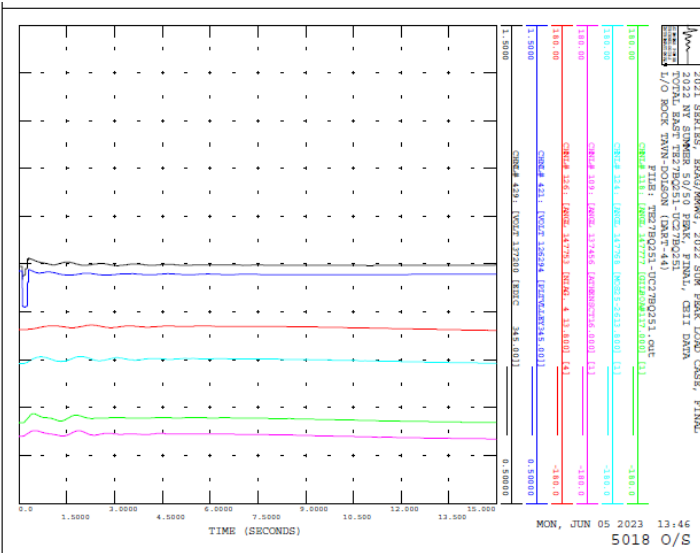
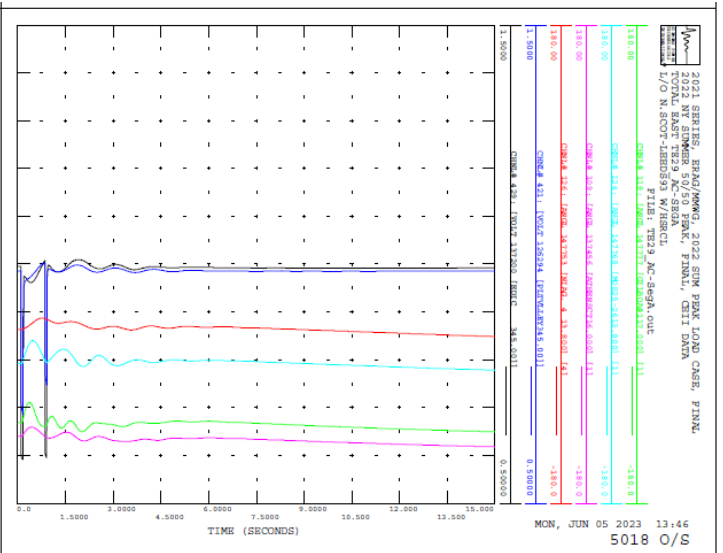


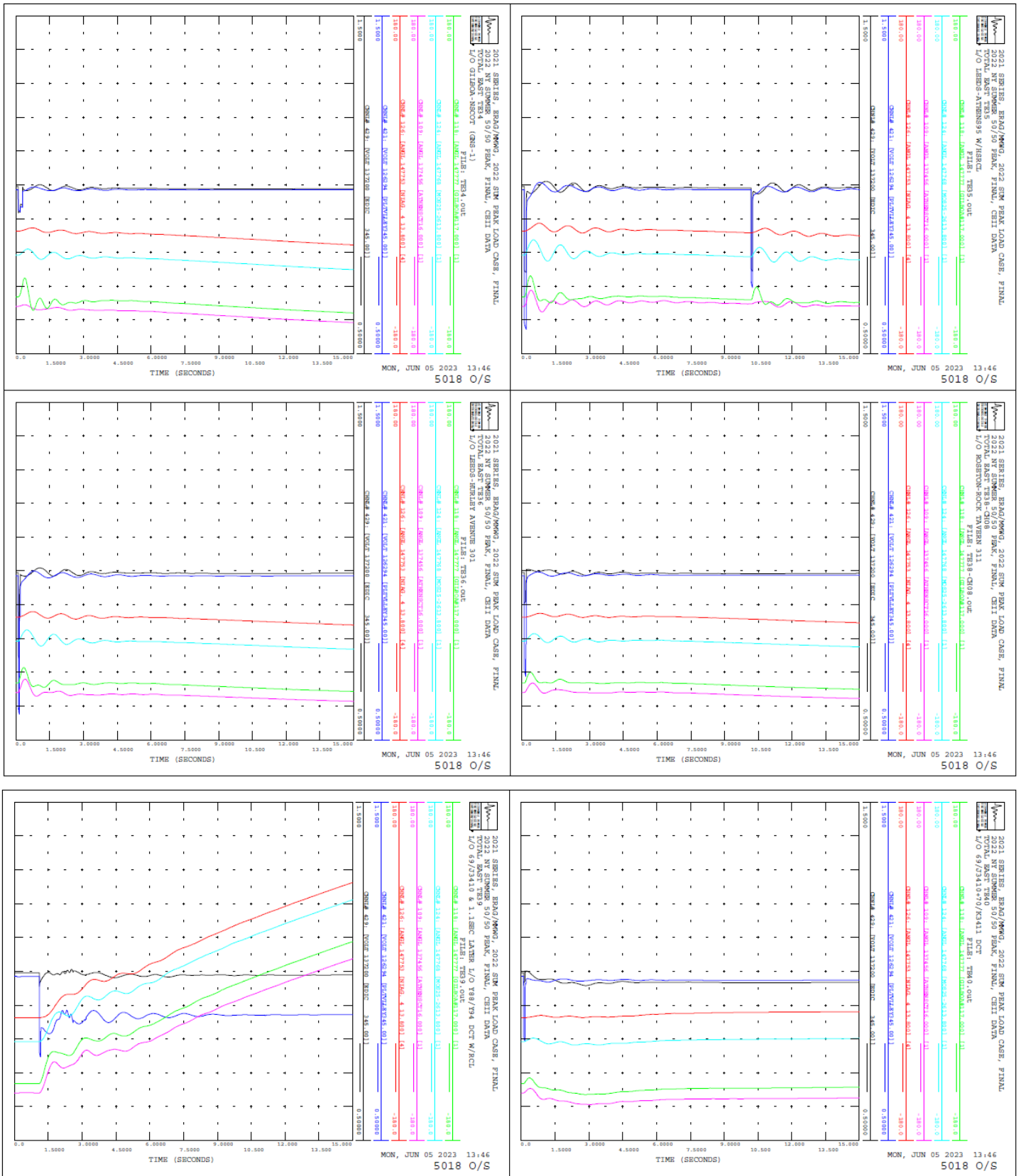


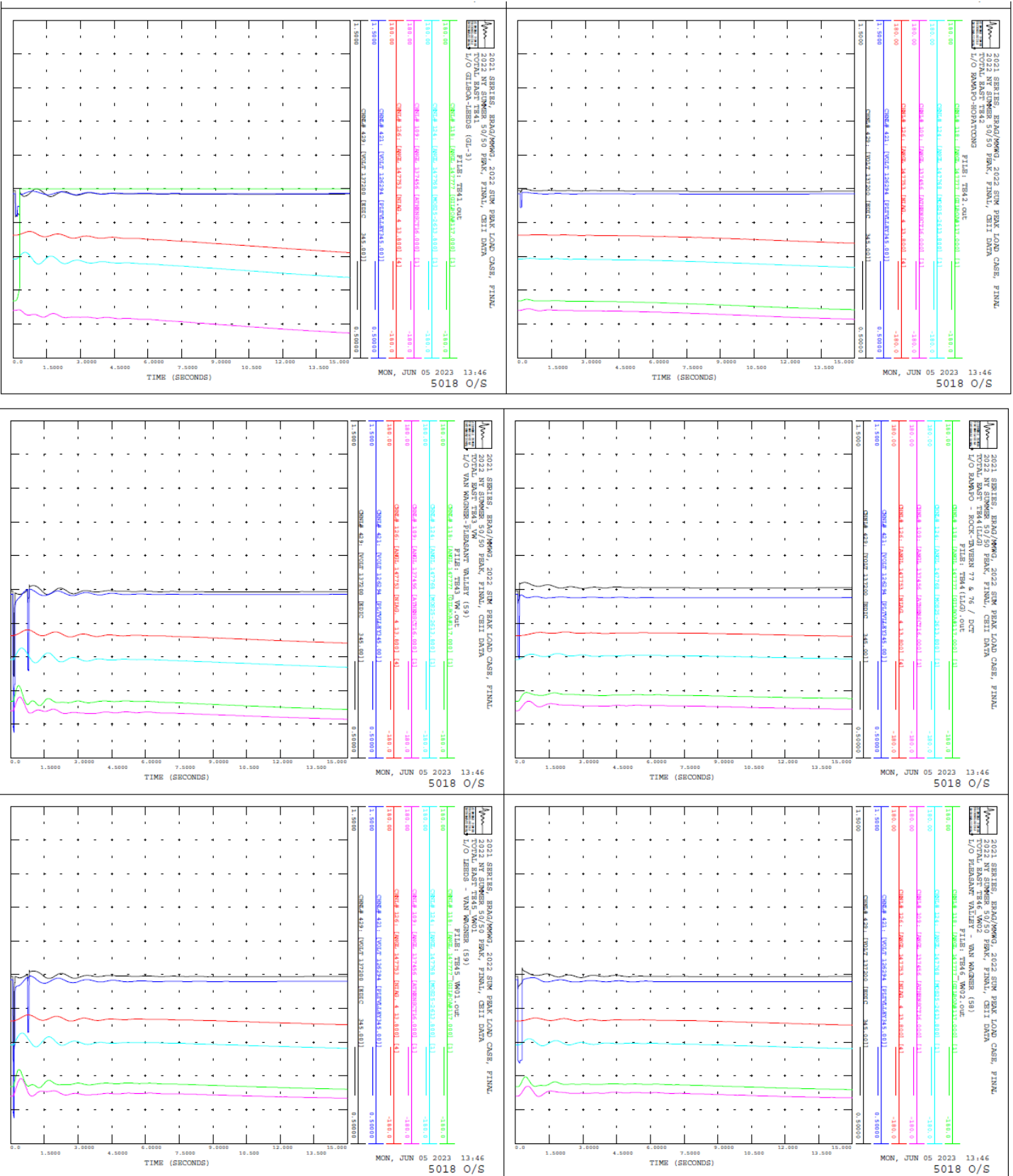


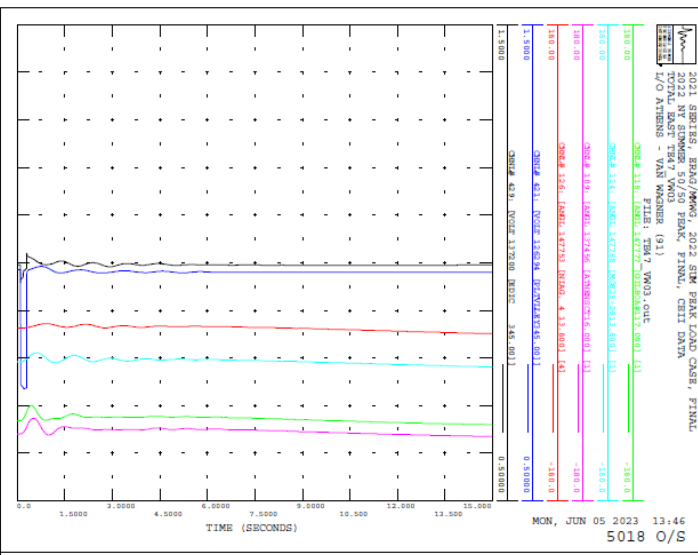












Appendix C: Transfer Case Interface Flow Report/Angle and Voltage Responses for 5018 O/S and Any SVC/Statcom O/S

INTERFACE FLOW REPORT

Interface	MW	MVAr	Interface	MW	MVAr
DYSINGER-EAST	2765.4	-198.0	DYSE-CLOSE	7229.2	65.6
WEST-CENTRAL	1446.4	-133.6	WESTC-CLOSE	5908.7	357.0
VOLNEY-EAST	4039.4	-479.8	VOLNEY-CLOSE	7005.9	19.6
MOSES-SOUTH	2891.8	768.3	MOSES-CLOSE	2498.5	652.0
CENTRAL-EAST	4061.9	-91.5	TOTAL-EAST	7562.4	-479.3
UPNY-SENY	3430.2	-187.4	UPNY-SENY-CL	6332.6	221.8
UPNY-CONED	8183.0	715.4	UPNY-CON-CL	10290.5	1100.5
MILLWOOD-SO	8371.8	50.2	LIPA-IMPORT	1729.2	82.7
DNWDIE-SO-PL	6210.2	-1355.4	DNWDIE-SO-PC	8317.7	-970.4
DNWDIE-SO-OP	5290.5	-1107.2	ABC-JK-PAR	1854.7	434.7
SENY-115kV	164.0	-83.9	SENY-F-To-G	1990.8	-73.6
PJM-NY	4152.6	74.6	NE-NY-WCSC	-1066.1	276.9
ON-NY	2479.2	333.7	ONT-MICH-PAR	-2.5	6.4

ANGLE AND VOLTAGE RESPONSES

