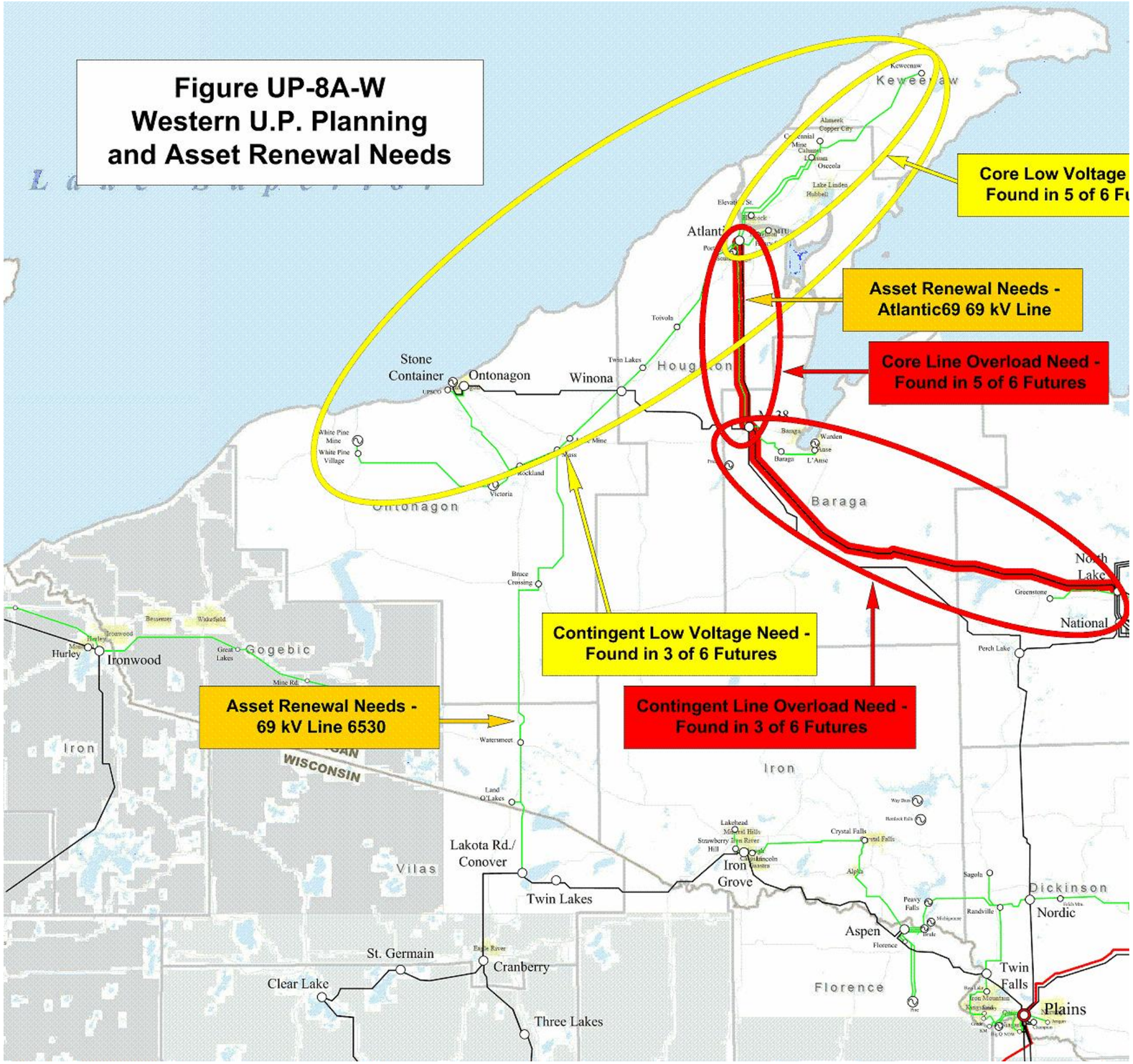
Figure UP-8A-W
Western U.P. Planning
and Asset Renewal Needs
Core Low Voltage
Found in 5 of 6 Fu
Asset Renewal Needs -
Atlantic69 69 kV Line
Core Line Overload Need -
Found in 5 of 6 Futures
Contingent Low Voltage Need -
Found in 3 of 6 Futures
Contingent Line Overload Need -
Found in 3 of 6 Futures
Asset Renewal Needs -
69 kV Line 6530
Stone
Container
Ontonagon
Winona
Houghton
Baraga
North
Lake
National
Hurley
Ironwood
Gogebic
Iron
WISCONSIN
Lakota Rd./
Conover
Twin Lakes
Vilas
St. Germain
Cranberry
Clear Lake
Three Lakes
Iron
Grove
Aspen
Florence
Twin
Falls
Plains
Dickinson
Nordic

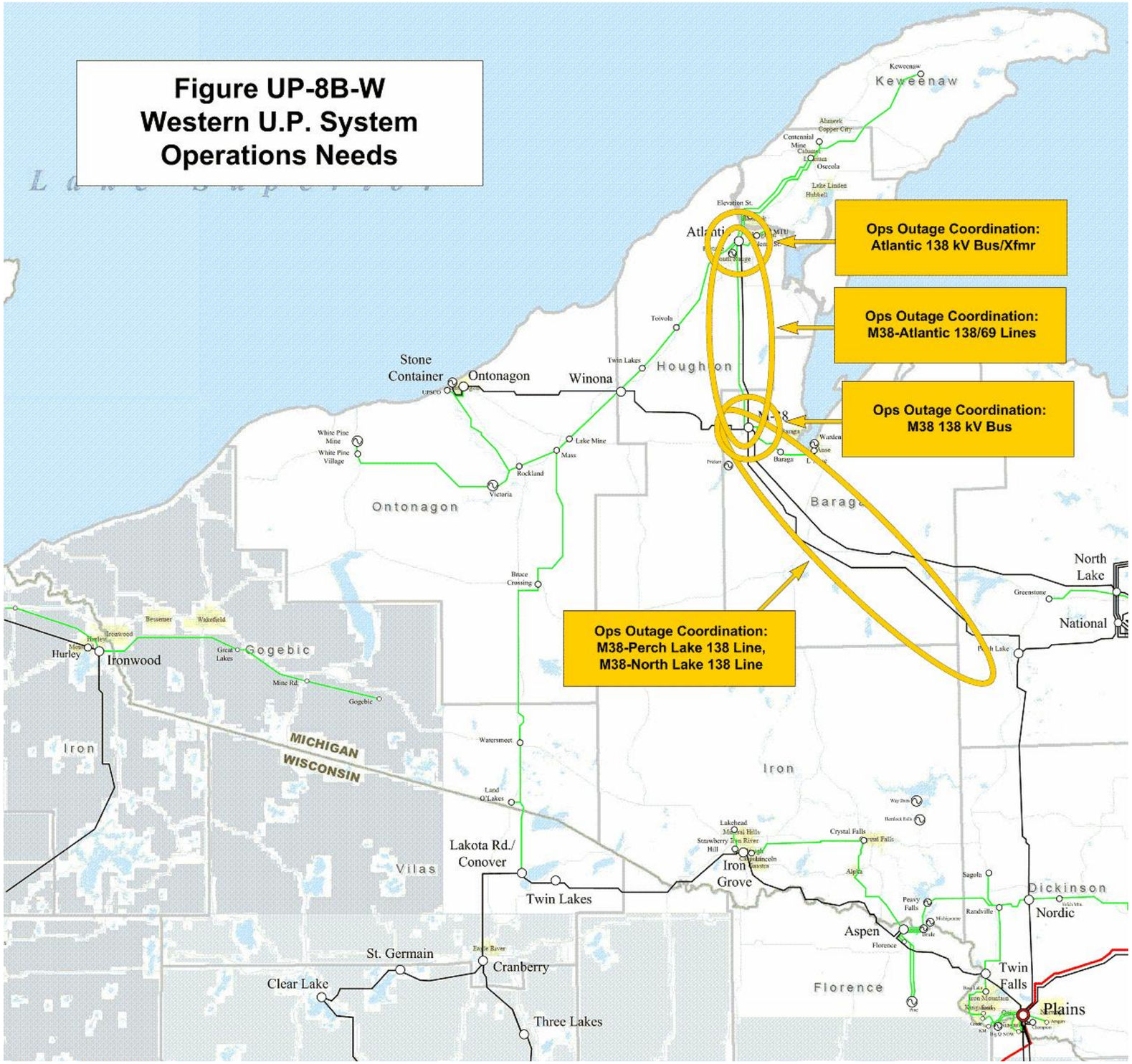
Figure UP-8B-W
Western U.P. System
Operations Needs
Ops Outage Coordination:
Atlantic 138 kV Bus/Xfmr
Ops Outage Coordination:
M38-Atlantic 138/69 Lines
Ops Outage Coordination:
M38 138 kV Bus
Ops Outage Coordination:
M38-Perch Lake 138 Line,
M38-North Lake 138 Line
Keweenaw
Houghton
Ontonagon
Baraga
Gogebic
Iron
Vilas
Florence
Dickinson
Stone Container
Ontonagon
Winona
Hurley
Ironwood
MICHIGAN
WISCONSIN
Lakota Rd./
Conover
Twin Lakes
St. Germain
Clear Lake
Cranberry
Three Lakes
Iron Grove
Aspen
Twin Falls
Plains
Nordic
North Lake
National