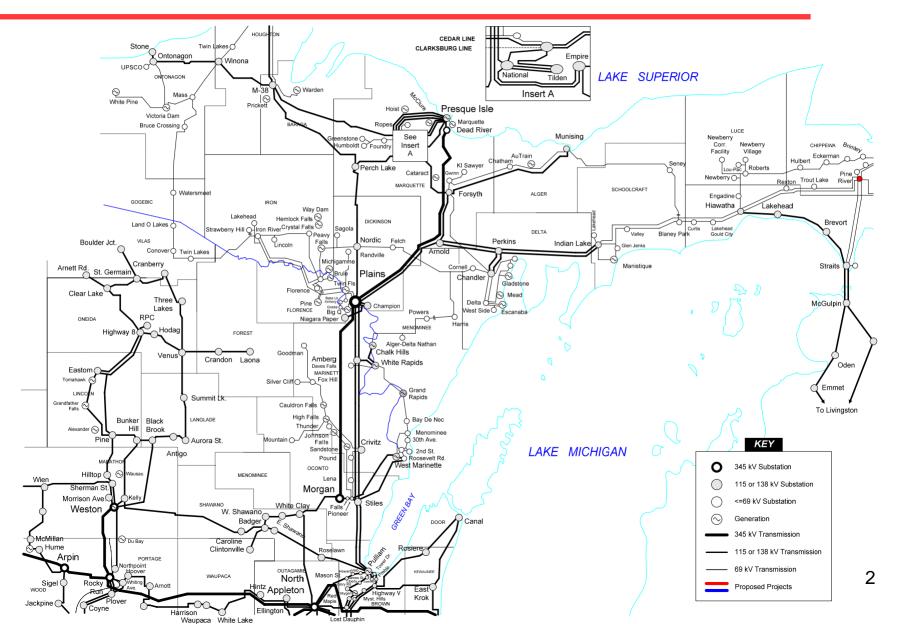


Northern Umbrella Plan Update

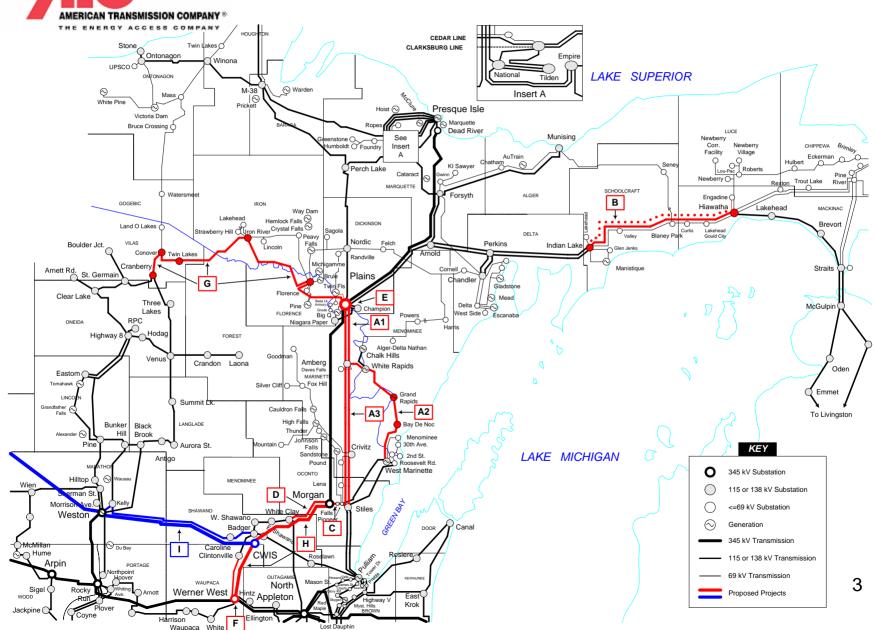
July 16, 2007

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System Prior to NUP Projects



Northern Umbrella Plan





NUP Projects

Completed Projects:

- A: Plains Stiles 138 kV Rebuild
- B: Indian Lake Hiawatha 69 kV to 138 kV Rebuild
- C: Morgan Stiles 138 kV Rebuild
- D: Morgan White Clay 138 kV Up-rate
- F: New Werner West 345/138 kV Substation

In-progress Projects:

- E: Add 2nd Plains Transformer
- **G**: Cranberry Conover Plains Project
- H: Morgan Werner West 345 kV Line (including Clintonville Werner West 138 kV)
- I: Gardner Park Central Wisconsin 345 kV Line (for generator interconnection)



- E. Second Transformer at Plains
- Scope

- Add a second 345/138 kV, 250MVA transformer

- Schedule/Status
 - Project planning in progress (scoping, estimating, etc.)
 - Will obtain internal ATC project authorization in August '07 (was June/July '07)
 - New transformer has been ordered
 - Planned in-service December 2009



Project Overview and Status

- **G.** Cranberry-Conover-Plains
- Scope
 - Phase 1: New 15 miles of 115kV line (overhead and underground) from Cranberry to new Lakota Road Substation with modifications at various substations including Conover SS
 - Phase 2: Rebuild 69kV line from Conover SS to Iron River SS to 138kV including new Iron Grove SS
 - Phases 3 and 4: Rebuild 69kV line from Iron River SS to Plains SS to 138kV (single, double and triple circuit configurations) with modifications at various substations including Aspen SS



Project Overview and Status

- G. Cranberry-Conover-Plains (cont'd)
- Phase 1 -- Schedule/Status
 - OH line, UG line and substation design/procurement activities underway
 - New easement acquisition underway
 - Construction start Aug. '07 UG line, Fall '07 SS and Dec. '07 OH line
 - Planned in-service June 2008
- Phase 2 -- Schedule/Status
 - OH and SS design and procurement activities underway
 - Partial construction (Twin Lakes crossing) 1Q08
 - Remainder of construction 3Q08 to 1Q09 (with construction complete to Twin Lakes SS in 3Q08)
- Phase 3 & 4 -- Schedule/Status
 - OH line and substation design/procurement activities will start 1Q08
 - Construction start 2Q09
 - Planned in-service June 2010



New Morgan-Werner West 345kV Line

ATC Executive approval	February 2005
ATC Board approval	February 2005
File CPCN application	March 2005
CPCN issued	June 2006
Pre-construction activities (Surveying, engineering, real estate, material procurement)	January 2006 – January 2009
Construction period	January 2007 – December 2009
Project in-service	December 2009



New Gardner Park-Central WI 345kV line

ATC Executive approval	February 2005
ATC Board approval	February 2005
File CPCN application	March 2005
CPCN issued	June 2006
Pre-construction activities (Surveying, engineering, real estate, material procurement)	January 2006 – January 2009
Construction period	January 2007 – December 2009
Project in-service	December 2009



Project Status Summary

Project Name	Key Need Drivers	Projected In-Service Date	Projected Cost	Status
A : Plains – Stiles 138 kV Rebuild	Physical condition; transfer capability; solution also results in a more robust parallel path for 2/3 of P-S corridor		\$94.3M	Complete
•A1: Plains – Amberg		October 2005	-	Complete
•A2: Amberg – West Marinette		November 2005	-	Complete
•A3: Amberg – Stiles		October 2006	-	Complete
B : Indian Lake – Hiawatha 69 kV to 138 kV Rebuild	TLR mitigation; voltage support; physical condition; local load- serving in Manistique area; required operating guide that splits the U.P. system			Complete
•Phase 1 – Rebuild Indian Lake – Glen Jenks		August 2004	\$6.1M	Complete
•Phase 2 – Rebuild as double circuit 138 kV, operate at 69 kV		March 2006	\$46.2M	Complete
•Phase 3 – Convert to 138 kV operation		N/A	N/A	Not part of the Northern Umbrella Plan
C : Morgan – Stiles 138 kV Rebuild as double circuit	Transfer capability	May 2006	\$8.0M	Complete

Project Status Summary

AMERICAN TRANSMISSION COMPAN	8				
THE ENERGY ACCESS COMPAN	Key Need Drivers	Projected In- Service Date	Projected Cost	Status	
D: Morgan – White Clay 138 kV uprate (eventual rebuild as part of Element H)	Transfer capability	March 2005	\$0.4M	Project Complete.	
E: Add 2 nd Plains transformer (250 MVA 345/138 kV)	Transfer capability	4Q09	\$6.5M	Transformer ordered, project scope, schedule and cost being defined and planned.	
F: New Werner West Substation with 345/138 kV transformer	TLR mitigation, system security	December 2006	\$14.2M	Project Complete.	
G : Cranberry – Conover – Plains Project	Transfer capability; Transmission service; Reliability, physical condition	See below	\$125.9M (was \$118.7M)		
Phase 1: New 115 kV Cranberry – Conover		June 2008	-	Design/procurement activities and ROW acquisition underway.	
 Phase 2, 3 & 4: Rebuild 69 kV Conover – Plains to 138 kV 		June 2010	-	Design/procurement activities started. Will design/construct from west to east.	
H: New Morgan – Werner West 345 kV line & Clintonville – Werner West 138 kV line	Transfer capability, reliability, and network service.	2009	\$132.3M	Engineering and ROW activities continuing on Werner West – Hwy 22 and Morgan – White Clay temp line complete and permanent under construction.	
I: New Gardner Park – Central Wisconsin 345 kV line & Central Wisconsin 345 kV switching station	Required for new Weston 4 generation	2009	\$131.5M	Engineering and ROW activities continuing on Gardner Park – Whitcomb. Construction complete on Belle Plain Tap – Hwy 22 and Caroline – Belle Plain.	



Northern Umbrella Plan Summary

- Current estimated cost for all projects is \$565 million
- Total project spending to date is approximately \$238 million (through May 2007)
- Of the 9 projects -
 - 5 are complete and in-service
 - 4 are in various stages of design and construction
- Construction and completion of all projects is expected in mid-2010