EXECUTIVE SUMMARY

This report is the update to the 2003 10-Year Transmission System Assessment report issued in September 2003. The Assessment reports current results of planning activities and analyses of the transmission facilities owned and service territory encompassed by American Transmission Company LLC (ATC). These activities and analyses identify needs for transmission system enhancement and potential projects responsive to those needs. This 2003 update report describes changes to the 2003 10-Year Assessment through 2012 based on updated information provided by local distribution companies, the latest transmission service requirements and generation interconnection requests, recent analyses conducted by ATC, input from various stakeholders at ATC-sponsored meetings, and other developments.

The updated information in this report provides further foundation for continued public discussions on the transmission planning process, identified transmission needs and limitations, possible resolutions to those needs, and coordination with other public infrastructure planning processes.

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In addition to providing updated need and project information, this report presents additional information on a topic introduced briefly in the September 2003 report that will become a key focus for discussion in 2004. This topic is "Access", or the ability of customers connected to ATC's system to gain greater access to lower cost energy and move it within the ATC system to where it is needed to serve energy requirements.

Based on anticipated changes to ATC's 10-year system expansion plan since the 2003 10-Year Assessment, this 2003 Update anticipates the following:

Table ES-1
Summary of American Transmission Company's
2003 Transmission System Assessment Update

	2003 10-Year Assessment	2003 Update
	(September 2003)	(March 2004)
New Transmission Lines Requiring New Right-of-Way		
345 kV	8 lines / 220 miles	8 lines / 220 miles
138 kV	17 lines / 107 miles	14 lines / 80 miles
115 kV	4 lines / 42 miles	6 lines / 52 miles
69 kV	9 lines / 92 miles	8 lines / 84 miles
Transmission Lines to be Constructed, Rebuilt, Reconductored or Uprated on Existing Right-of-Way		
345 kV	7 lines / 114 miles	8 lines / 168 miles
138 kV	47 lines / 807 miles	42 lines / 760 miles
115 kV	4 lines / 108 miles	4 lines / 98 miles
69 kV	12 lines / 54 miles	9 lines / 47 miles
New Transformers to be Installed		
(# of transformers / total capacity)	38 transformers / 9980 MVA	41 transformers / 9740 MVA
New Capacitor Banks to be Installed		
(# of installations / capacity)	34 installations / 930 MVAR	31 installations / 964 MVAR

Details of the specific changes to ATC's plans from those listed in the September report are provided in Section IV of this Update; a summary of changes is provided in Appendix B. Several of the changes are due to proposed new generation projects meeting criteria for inclusion that will require the construction of new transmission facilities. Other changes are attributable to further analyses of project alternatives done by ATC. Still other changes are due to updated load forecast information provided by ATC customers.

Although this March 2004 Update illustrates various changes in the set of projects responsive to identified needs as compared to the September 2003 Assessment, the total estimated cost for projects reflected here is approximately the same as it was in the September report – now slightly over $1.7 billion. At this time, ATC continues to anticipate total capital expenditures of around $2.8 billion over the years 2003 through 2012. The difference in costs between this total expenditure and the $1.7 billion for projects reflected in this document consists of costs for:

- Interconnection of proposed generation projects not yet meeting criteria for inclusion in this Update

- Possible transmission projects not yet included in the tables
- Transmission-distribution interconnections that don't require a regulatory filing or more than a few spans of transmission line construction
- Capital-related maintenance projects
  - Line rebuilds not involving reconductoring or voltage conversions
  - Circuit breaker, switch and other terminal equipment replacements
- Protective relay replacements

Figure ES-1
TRANSMISSION SYSTEM ADDITIONS
2003 THROUGH 2012
May be Planned, Proposed or Provisional