APPENDIX **B**

Test Results Tables

This appendix contains tables and checklists to use during the turn-up and test of a Cisco ONS 15540 ESPx.

Table B-1   Test Results for the Cisco ONS 15540 ESPx

Test or Procedure Section	Expected Result (After Powerup)	Notes
"Fiber Plant Characterization" section on page 1-8	Tested fiber meets the specifications listed in that section.	
"DLP-13 Install the 2.5-Gbps Line Card Motherboard" section on page 2-19	All LEDs on the modules are off (default).	
"DLP-40 Verify the Powerup" task on page 2-66	The Status LED is green. The Active LED on the primary processor and the Standby LED on the standby processor are both green. The alarm LEDs are off.	
"NTP-8 Verify Installation of Hardware" procedure on page 2-66	All modules in the chassis are reported in the proper slot by Cisco IOS software. The modules have the correct hardware version and software version.	
"NTP-15 Verify the Interface Status" procedure on page 4-2	The interfaces are administratively up.	
"NTP-16 Verify the Optical Patch Configuration" procedure on page 4-11	The patch connections are correctly configured.	
"DLP-65 Verify the Power Levels at the DWDM Trunk Signal" task on page 4-15	Tx optical power and wavelengths are in line with figures in the power specification tables.	
"DLP-65 Verify the Power Levels at the DWDM Trunk Signal" task on page 4-15	Measured power matches the specifications provided.	
"DLP-64 Verify the 2.5-Gbps Transponder Module Laser Frequency" procedure on page 4-13	The laser frequency (channel number) is configured to the proper wavelength.	
"NTP-20 Verify the Optical Transmission Quality" procedure on page 4-23	The test runs error free for 15 minutes.	

Table B-1   Test Results for the Cisco ONS 15540 ESPx (continued)

Test or Procedure Section	Expected Result (After Powerup)	Notes
"NTP-21 Verify the Alarm Status" procedure on page 4-27	Alarms are generated for the listed fault conditions.	
"NTP-23 Verify the Optical Power Budget Between Nodes" procedure on page 5-2	Expected results (from network design), measured results, and results as seen by Cisco IOS software match.	
"NTP-24 Verify the Connectivity Between OSC Modules" procedure on page 5-3	Active is displayed under the Status field. 2way is displayed under the OSCP St. field.	
"NTP-26 Verify the Power Levels" procedure on page 5-4	Channel count, power, power equalization, and OSNR meet the network design requirements.	
"NTP-27 Test the Optical Transmission Quality" procedure on page 5-5	The test runs error free for 15 minutes.	