



**AT&T CHECKLIST FOR INSTALLATION
QUALITY AUDITS
(ATT 106)**

ATTP 800-614-106
Issue 7.0, 10/1/2005
MLID: 25430

**AT&T GENERIC INSTALLATION STANDARDS QUALITY
VENDOR AUDIT CHECKLIST**

AT&T Order Information All Fields Required

AT&T Order Number	
Audit Date	
Job Location	
State	
CLLI	
Technology	
Number of Bays in Installation	

Supplier Order Information All Fields Required

Supplier Order Number	
Company Name	
Installer	
Phone	
Email	
Submitted By	
Phone	
Email	
Supplier Equipment Engineer	
Telephone Number	
Supplier Power Engineer	
Telephone Number	
Supplier Cable Engineer	
Telephone Number	

**THIS IS TO VERIFY THAT ALL WORK EFFORT ASSOCIATED WITH THE ORDER
LISTED ABOVE IS INSTALLED IN ACCORDANCE WITH AT&T PRACTICES,
SUPPLIER ORDER, AND THE STANDARDS DRAWINGS.**



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Change History

<u>ISSUE</u>	<u>DATE</u>	<u>DESCRIPTION OF CHANGE</u>
007.0	10/01/05	Rewrite Issue



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AT&T Installation Quality Assurance Process

The AT&T Installation Quality Process consists of seven main categories used to assure installation quality.

Indicate the appropriate checklists to be used for the specific installation.

Category 1 – Generic Requirements

Includes Generic Requirements in the ATTP 800-614-105 and associated documents.

☐

Section includes drawings, framework, racking, general cabling, fiber protection system, general power and grounding, testing, general process, and raised floor requirements.

Category 2 – General Purpose Equipment

☐

Includes alarm equipment, wire wrapping, includes, but is not limited to, installation of devices such as: NCOE, RC-48DX, DSX1 panels, DSX3 panels, LGX panels, DACS II, DDM 1000, ECHO, X.25, etc.

Category 3 – Power

☐

Includes, but is not limited to, installation of power plants, battery strings, power plant controllers, rectifiers etc. Also, includes associated power tests and requirements in accordance with AT&T Standards.

Category 4 – Transport

☐

Includes, but is not limited to, installation of Add/Drop multiplexers, digital cross connect systems, SONET terminals, other transport installations, etc. Also, includes test and turn-up of lightguide systems.

Category 5 – Switching

☐

Includes, but is not limited to, switch installations, installation of ATM, Frame Relay, and other switching equipment. Also, includes test and turn-up of individual frames.

Category 6 – Removals

☐

Includes, but is not limited to, equipment and cable removals.

Category 7 – Miscellaneous

☐

Includes 10 generic questions for miscellaneous findings that do not fit in any of the above categories. These questions, if used, will be set to a 'No' answer and Notes must be entered to describe the finding.

Comments

Enter comments about the audit in general.

If you have any questions on this Installation Checklist Module, please contact:
Keith Lanning on 770-517-8728 or Email at klanning@att.com



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Category 1 – Generic Requirements

		Y	N	N/A
	<i>Equipment Specific</i>			
A1	Were all items requested in the AT&T supplier order furnished and installed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A2	Were the uninstalled materials specified in the contract turned over to the OSWF? (Supplier must retain documentation of turned over materials)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Were the following drawing types issued & revised using the standards shown in ATTP000-151-020?			
A3	A. Floor Plans	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4	B. Cable Rack, Frame & Aisle Lighting, Grounding Plans, Fiber Protection Duct Plan etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A7	E. Power Records	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A8	F. Alarm Records	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A9	G. Misc. Assignment Records	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A10	Were AT&T approved Cables and correct wire sizes utilized? (standard drawings, AT&T Approved Parts List, & ATTP 790-100-669)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A11	Were cables routed in bay correctly? (Product Manuals, AE/AT, NE/NT and T- Drawings)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A12	Are all circuit packs seated securely and are all latches engaged and firmly latched / latch screws in place / blanks in place? (Reference Manufacture Technical Documentation)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A18	Is stenciling / labeling correct per AT&T documentation? (ATTP 800-614-105, Sect 16; ATTP 790-100-669, Sect 12.15; Intra-Office Fiber Standard Sect 2.2 & 2.3.4, 13.16B, AT&T Labeling Guidelines and AT&T Labeling Tips)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A20	Was DMACS Alarm Software Database updated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<i>Cabling and Distribution Systems</i>			
B1	Were cable rack and aux. framing superstructure braced per standard for the earthquake zone specified in the AT&T equipment order? (ATTP 800-610-155; ATTP 800-614-105, Sect 10.6, 10.7.8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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B2	Was bay/cabinet anchored/supported according to standards including quantity and size of anchor bolts in accordance to office specific arrangements? (ATTP 800-614-105, Sect 11.3.4, Sect 11.3.6 (See 800-614-107, Sect J for Raised Floor, ATTP800-610-155))	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B3	Were insulated anchoring details provided for isolated ground plane applications? (ATTP 800-614-105 Sect. 19.3, Sect 24A.4.3.1 & ATTP 803-501-100, standard drawings)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B4	For Cable Rack, were cable shields/classes properly separated? (ATTP 800-614-105, Sect 13.16, R13-132)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B5	Did new lineup, cross aisle or via rack meet general requirements as indicated above? (ATTP801-006-100, Sect 2.0 & Sect 3.0)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B6	Were cable rack capacity rules followed? (ATTP 800-614-105, Sect 10.7.4 & Sect 13.16.1, Sect 13.19, ATTP 801-006-100, Sect 3.0)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B7	Was cable protection correctly applied? (ATTP 790-100-669 Section 8.04; ATTP 800-614-105 Sect 13.5 thru 13.9, Sect 13.16A)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B8	Did cable-racking system(s) meet standard design requirements? (NEBS GR-63-Core; ATTP 800-614-105 Sect 10, Sect 13.19, ATTP801-006-100, Sect 2.0 & Sect 3.0)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B9	Have end guards and cable rack covers been put back in place?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B10	Have all stamped shipping labels and piece part designations been removed from any added cable rack and superstructure?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B11	Have all unprotected ends, mars and scratches of cable racks and superstructure been repainted? (ATTP 800-614-105, Sect 11.2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B12	Were cable penetrations in walls, floors, ceilings, etc. covered and fire stopped properly? (ATTP 770-350-100)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B13	Were appropriate fire stop labels correctly applied? (ATTP 770-350-100)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B14	Does wire and cable meet general requirements on support, bending radii, etc.? (ATTP 800-614-105, Sect 13.2, item R13-13 & Sect 13.16 & Sect 13.17	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B15	Were switchboard cable tags (form SD97-218a or equivalent) properly filled out and left on un-terminated cables? (ATTP 800-614-105, Sect 13.5, Item R13-41)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B16	Have cables below the cable racks and above the frames been sewn using Chicago Stitches and protection fiber installed properly? (ATTP 800-614-105, Sect 13.11 & Sect 13.12)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B17	Are cables secured properly in the frame uprights? (ATTP 800-614-105, Sect 13.13)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B18	Has sufficient slack been left so that the cables remain on the cable racks? (ATTP 800-614-105, Sect 13.19 & Sect 13.20)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B19	If switchboard cables are required to be secured on racks, were 2 strands of 9 cord and the Kansas City Stitch used instead of nylon ties? (ATTP 800-614-105, Sect 13.11 & Sect 13.12)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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B20	Were BNC connectors installed according to standard? (ATTP 800-614-105, Sect 15.9 & AT&T Approved Parts Installation Procedures)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B21	Were the correct BNC connectors used? (See AT&T Approved Parts list for approved connectors)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B22	Did vertical cable rack comply with use of no horns? (ATTP 800-614-105, Sect 13.16.1, Item R13-140) Exception: Section 2.1 of the AT&T Intra-Office Fiber Optic Standards)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B23	Cable entering & exiting equipment frames are run so they do not block access for future cables? (ATTP 800-614-105, Sect 13.20.7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B24	Has all excess cable slack been removed from the cable run? (ATTP 800-614-105, Sect 13.16, items R13-135, R13-136 and R13-137)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<i>Fiber Optics Cabling</i>			
C1	Have all fiber optic jumpers been placed in AT&T approved plastic fiber protection system ducts (gray-colored and putty-colored ducts are permissible for intra-system cabling)? (Sections 2.3 and 2.3.1 of the AT&T Intra-Office Fiber Optic Standards)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C2	Have lids been placed on all fiber ducts? (Section 2.3.1 AT&T Intra-Office Fiber Optic Standards)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C4	If riser cable is being run on a vertical cable rack, are the cables wrapped with sheet fiber and sewn at every cable strap? (Section 2.1 of the AT&T Intra-Office Fiber Optic Standards)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C5	If riser cable is being used and free falls three or more floors, is it supported by a Kellum Grip? (Section 2.1 of the AT&T Intra-Office Fiber Optic Standards)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C6	If split corrugated tubing is being used is it only used to bridge the space from the bay to the FPS, is the tube length no longer than 18"? (Section 2.3.2 of the AT&T Intra-Office Fiber Optic Standards)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C7	If riser cable is used, is it OFNR rated as specified in the National Electric Code (NEC) and GR-409-Core? (Section 2.1.1 of the AT&T Intra-Office Fiber Optic Standards & ATTP 800-614-105 Section 22.2, R22-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C8	For OSP cables coming from the vault to the first HS-LGX, do they meet the fiber standard (Section 3.1b of the AT&T Intra-Office Fiber Optic Standards)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C9	Are all fiber optic jumpers' bend radii greater than or equal to 1.5 inches? (Section 2.2 of the AT&T Intra-Office Fiber Optic Standards)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C10	Are all fiber optic riser-cables' bend radii greater than or equal to 10 times the cable diameter? (Section 2.1 of the AT&T Intra-Office Fiber Optic Standards)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C11	In a raised floor environment, have all fiber optic riser-cables been run on rack or secured to floor supports and wrapped with sheet fiber at the point of attachment per the standards? (Section 2.3.3 of the AT&T Intra-Office Fiber Optic Standards)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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C12	If fiber jumpers were used, were they 1.6mm or 1.7mm diameter type in the core area? Note: The 2.0mm, 2.4mm, and the 3.0mm diameters are only permitted in Local Services offices. (Section 2.4 of the AT&T Intra-Office Fiber Optic Standards)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C13	If NON-Transport fibers are being installed (i.e., X.25, RNC-2000, LAN, TCP/IP, etc.), are they run separated from the Transport fibers? (Section 4 of the AT&T Intra-Office Fiber Optic Standards)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C14	Are all racks dedicated for fiber use only labeled "Fiber Cables Only"? (Sections 2.1 and 3.1.1 of the AT&T Intra-Office Fiber Optic Standards)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C16	Does the fiber slack meet the fiber standard requirement? (Section 2.4 of the AT&T Intra-Office Fiber Optic Standards)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C17	Has fiber protection system duct and/or corrugated tubing not been used to run between floors or through fire-rated walls. This includes both fire and non-fire rated FPS. (Section 2.3.1 of the AT&T Intra-Office Fiber Optic Standards)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C19	Are fiber optic jumpers being run intra-floor only and not through floors or through fire-rated walls? (Section 2.2 of the AT&T Intra-Office Fiber Optic Standards)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C20	If riser cable is being run does it meet the minimum fiber count AT&T permits? (Section 2.1.1 of the AT&T Intra-Office Fiber Optic Standards)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C21	If riser cable is run, was it installed on open cable rack and not on panned rack or any type of FPS. Note: the exception is for Local Services in the TITAN DACS 5500 System where panned rack is permitted (Section 2.1 of the AT&T Intra-Office Fiber Optic Standard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C22	If cable horns were used, do they meet the fiber standard? (Section 2.3.3 of the AT&T Intra-Office Fiber Optic Standards)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Ironwork			
D1	Have ceiling supports been installed properly? (Installer provided only) (ATTP 800-614-105, Sect 2.5 & Sect 10.3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D2	Has high type superstructure been installed at proper height & using approved hardware/supports? (ATTP 800-614-105, Sect 10, ATTP 800-614-156; ATTP801-006-100, Sect 5.0)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D3	Has low type superstructure been installed at the proper height using hardware/supports? (ATTP 800-614-105, Sect 10, ATTP 800-614-155, ATTP801-006-100, Sect 5.0)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Power and Grounding			
E1	Were proper power feeder cables ordered (including color) and installed as required by diversity guidelines? (ATTP 790-100-669, Sect 8.01, Sect 8.05)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E2	Were battery return cables provided in the proper color and with tracer markings for 8AWG and larger cable? (ATTP 790-100-669, Sect 8.04)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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E3	Were battery and battery return conductors paired? (ATTP 790-100-669, Sect 8.04)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E4	Were all tap downs cabled under diversity guidelines and made using correctly colored cables? (ATTP 790-100-669, Sect 8.05)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E5	Has equipment been labeled with its DC Power Source? (ATTP 790-100-669, Sect 12.15)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E6	Are insulated DC power and ground cables of the approved type? (ATTP 790-100-669, Sect 8.01)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E7	<p>Are power feeds properly sized? (ATTP 790-100-669 Section 4.03) Power distribution cable feeders may be calculated per:</p> $CM = \frac{11.1 \times I(\text{amps}) \times \text{ft}(\text{loop})}{\text{Voltage drop (loop)}}$ <p style="text-align: center;"><u>AND</u></p> <p>The ampacity of the smallest cable or the ampacity of the smallest parallel cables in the circuit should equal or be greater than the size of the protection device feeding the circuit. Compare the breaker or fuse size to the ampacity of cables being run for main feeder.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Cable Size/Ampacity	Cable Size/Ampacity		
	12 AWG 20 Amps 10 AWG 30 Amps 8 AWG 55 Amps 6 AWG 75 Amps 4 AWG 95 Amps 2 AWG 130 Amps	0 AWG 00 AWG 0000 AWG 350 kcmil 500 kcmil 750 kcmil	170 Amps 195 Amps 260 Amps 350 Amps 430 Amps 535 Amps	
E8	Are the power feeders secured properly on horizontal cable racks and has the proper fiber protection been installed? (No nylon ties or clips, except for bundling of secondary DC power cables under the floor in a raised floor environment. Power feeders that are 750,000 CM and larger requires 4 strands of 9 cord) (ATTP 800-614-105, Sect 13; ATTP 790-100-669, Sect 8.04)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E9	Are vertical power runs sewn and clamped properly? (ATTP 800-614-105, Sect 13, ATTP 790-100-669, Sect 8.04)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E10	Are all connectors & taps compression type, free of sharp edges and compressed using the proper tool with the "DIE" number impressed on the connector? (ATTP 800-614-105, Sect 15.10 ATTP 790-100-669, Sect 8.03)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E11	Are power and ground connections properly treated? (contact surfaces are clean bare metal and NO-OX applied) (ATTP 800-614-105, Sect 15.10; ATTP 790-100-669, Sect 8.03)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E13	Were restrictions on armored cable usage met? (ATTP 800-614-105, sect 17.10, ATTP 790-100-669, Sect 10.05)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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E14	Have “dummy fuses” been installed? (ATTP 800-614-105, Sect 17.11, ATTP 790-100-669, Sect 8.06)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E15	Was EMT conduit used and properly supported? (ATTP 790-100-669, Sect 10.04)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E16	Have BDFB's using insulated external return bars been checked to assure that they are not connected to CO ground? (ATTP 790-100-669, Sect 8.02)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E17	Was frame ground wire of the proper size? (ATTP 803-501-100, Sect 2.3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E18	Are ground connectors two hole, copper, crimp type and are both holes used to anchor the lug to the frame? ATTP 800-614-105, Sect 15.10, Sect 18.2, Item R18- 1A; ATTP803-501-100, Sect 2.6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E19	Have proper lock washers been used on ground connections? (ATTP 800-614-105, Sect 18.2, Item R18-1A, Item R18-1B, Sect 19.3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E20	Are ground conductors or assemblies installed without sharp bends and directionally correct? (ATTP 800-614-105, Sect 18.2, R18-13, x-ref ATTP 803-501-100, Sect 3.4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E21	Are frame ground conductors and equalizers run exposed and not buried or embedded with other cables in non-raised floor environments? (ATTP 800-614-105; Sect 13.16.2, Sect 24A.3, Sect 24B.3, ATTP 803-501-100, Sect 6 & 7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E22	Has the shield of the shielded cables been grounded in accordance with the standard interconnect drawings? (Grounded at only one end) (ATTP 803-501-100, Sect 7.6 ATTP 800-614-105 Sect 13.17, Item R13-154)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E23	Were fiber tags provided for both ends of <u>all</u> battery, battery return conductors and ground conductors terminated at the Central Office Ground Bar? (For exceptions, reference ATTP 790-100-669, Sect 8.09)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E24	Does the frame/stand contain clearly marked ESD sockets at the required locations? (790-100-669, Sect 5.03, ATTP 800-614-105, Sect 9.2 & Standard drawings)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E25	Were all DC power cables installed according to Standards? (cables on separate racks or bundled? ATTP790-100-669, Sect 8.04, 800-614-105, Sect 13.16.A, Sect 24A.3.1, Sect 24 B.3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E26	Does the secondary DC power distribution frames (BDFB, PD, PDF and etc.) have a dedicated framework ground conductor run directly back to the nearest CO ground busbar? (AT&T 803-501-100, page 6-5 and 6-6) Note: this is not to be used for non-BDFB frame ground	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E27	Are all elements of the Integrated Ground Plane (aux framing, cable rack, vent ducts, pipes and etc.) within the specified proximity of the isolated ground plane bonded to the MGB in the ground window with a minimum #6 AWG stranded copper conductor? (ATTP 800-614-105, Sect 19.3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E28	Are connectors/taps/lugs/etc. shiner free? (ATTP 800-614-105, Sect 15.10)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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E29	Was PCO'd and/or installed equipment terminated on DC fuse panel(s), BDFB(s) or power plant(s) in accordance with the AT&T equipment order assignments? (If not, must have documentation from AT&T Engineer ATTP790-100-669, Sect 12.02)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E30	Was PCO'd and/or installed equipment terminated on AC panel(s) in accordance with AT&T standards and have the records been updated? (ATTP790-100-669, Sect 12.02)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<i>Frame and Aisle Lighting</i>			
F1	Were AC convenience outlets provided every fourth bay (i.e. first, fifth, ninth, etc.) in the base of framework bays or in accordance with standard drawings? (ATTP800-614-105, Sect 11.5.1A)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F2	Was fluorescent lighting added in accordance with existing office standard or per standard configuration? (ATTP 790-100-669, Sect 10.08; ATTP760-230-130, Sect 6.2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<i>Framework Details</i>			
G1	Were frames installed per the associated Job Drawing (bolted together, attached to auxiliary framing as required and etc.)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G2	Was equipment installed in the FIC location identified in the AT&T equipment order?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G3	Were end guards & aisle directory plates provided and updated per system standards? (ATTP 800-614-105; Sect 16.5.4, Item R16-16)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G4	Does the framework meet standard system requirements? (i.e., end shields, guard rail adapters, etc.) (ATTP 800-614-105, Sect 11, NEDS, GR-63-CORE)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<i>Testing</i>			
H1	Have all leads been continuity tested and all troubles cleared? (ATTP 800-614-105, Sect 13.22) (Supplier must retain documentation of test)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H2	Have the battery and return leads been verified? (ATTP 800-614-105, Sect 17.3, 790-100-669, Sect 12.09) (Supplier must retain documentation of test)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H3	Was PCO'd and/or installed equipment terminated on local/ remote alarms and tested back to the appropriate alarm center when required. (Supplier must provide retain documentation) (ATTP154-103-101)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H5	Have DS3 Digital cables been signal tested (DS1, DS3, Fiber Optics) as required? (Supplier must provide retain documentation of test)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H6	Was the appropriate Database and Testing center notified at least 3 days prior to job completion for data basing and remote testing? (Installation Bulletin 003-02-02)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<i>General Items</i>			



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I1	Was an SMOP issued a minimum of 3 days prior to job start? (ATTP 800-614-105, Sect 7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I2	Was SMOP complete with all required steps and were they followed? (ATTP 800-614-105, Sect 7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I3	Was this order free of any Hazardous Waste Material problems? (ATTP 800-614-105, Sections 3 and 5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I4	A. If "NO", Was the Hazardous Waste Material process followed? (ATTP 800-614-105, Sections 3 and 5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I5	Has DMS been updated with final as-installed drawing changes?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I6	Has all trash, associated with this order number, been removed? (ATTP 800-614-105, Sect 2.10)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I7	Have supplier tools, associated with this order, been removed from the job location? (ATTP 800-614-105, Sect 2.10)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I8	Have all cable bags/reels of cable/empty reels/etc., associated with this order, been removed from the job location? (ATTP 800-614-105, Sect 2.10)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<i>Raised Floor Application</i>			
J1	Has equipment been anchored to the raised floor in accordance with office specific arrangements? (ATTP 800-614-105, Sect 24)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J2	Were quantity & size of anchoring details correct for a raised floor? (ATTP 800-614-105, Sect 24A.4.3, 24B.4.3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J3	Does frame have removable tiles in front & rear? (ATTP801-006-100 Sect 2.2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J4	Are floor tiles flat and not warped? (Indicates correctly torqued floor anchors) (ATTP 800-614-105, Sect 24)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J5	Has plastic trim been installed to protect cables where floor tiles have been cut? (ATTP 800-614-105, Sect 24A.3.2, 24B.3.2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J6	Do raceway cable exits through the floor have fiber or grommets? (ATTP 800-614-105, Sect 24A.3.2, 24B.3.2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J7	Does unistrut have safety caps installed? (ATTP 800-614-105, Sect 24A.4.3.1, 24B.4.3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J8	Is unistrut used for anchoring cut to fit under one lineup only? (Blocks under floor access if under more than one lineup) (ATTP 800-614-105, Sect 24A.4.3.1, 24B.4.3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J9	Have excess cable lengths been stored properly? (ATTP 800-614-105, Sect R13-134)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J11	Have all frames and cabinets been installed without the use of leveling blocks or shims? (ATTP 800-614-105, Sect 24A.4.1, 24B.4.1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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Category 2 – General Purpose Equipment

		Y	N	N/A
K1	Were wire wraps installed with the proper number of turns, etc.? (ATTP 800-614-105, Sect 15.4 & Sect 15.7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K2	Was PCO'd and/or installed equipment terminated in accordance with the AT&T equipment order assignments? (e.g., DSX, DACS, GTP, TNS/LC, X.25 etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K3	Was cabling entering the DSX-1 complex, routed using the cross aisle nearest the terminating bay to avoid blocking out lineup racking? (ED6C150-10, Note 3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Category 3 – Power

		Y	N	N/A
L1	Has the supplier DC power checklist been completed. (Supplier must retain documentation) (ATTP 790-100-669, Sect 12.06)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L2	Has the battery float voltage and all battery inter-cell connector test results been turned over to the OSWF? (ATTP 790-100-669, Sect 5.03, Sect 12.06)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L3	Have all fuses and breakers been clearly and correctly marked? (ATTP 790-100-669, Sect 9.08 & Sect 12.15)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L5	Has all documentation been turned over to AT&T, including drawing requirements, product manuals and plant test records? (ATTP 790-100-669, & Sect 12.06)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L6	Are the battery stands grounded? (ATTP790-100-669, Sect 5.02)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L7	Are the rectifier control leads run separate from the charge leads? (ATTP790-100-669, Sect 6.01)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L8	Are the DC output wires from the rectifiers to the battery stand on dedicated rack? (ATTP790-100-669, Sect 6.01)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L9	Are the drop feeders, inter tier or inter row to the battery post lead coated compression type terminals? (ATTP790-100-669, Sect 5.01)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L10	Is there only one connection from the CO ground bar to the plant return bar? (ATTP790-669-100, Sect 4.07, Sect 8.02)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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Category 4 – Transport

		Y	N	N/A
M2	Were LBO's installed correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M3	Have high-speed East-directional fiber jumpers and high-speed West-directional fiber jumpers been run in separate ducts? (Section 3.1A, Section 2.3.4 AT&T Intra-Office Fiber Optic Standards)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M4	Have low-speed Service fiber jumpers and low-speed Protection fiber jumpers been run in separate ducts? (Section 3.1A, Section 2.3.4 AT&T Intra-Office Fiber Optic Standards)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M5	If high-speed and low-speed fibers share the same duct, then has HS-East been paired with LS-Service, and/or has HS-West been paired with LS-Protection? (Sections 3.1 and 2.3.4 of the AT&T Intra-Office Fiber Optic Standard)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M6	Have all ducts been labeled in accordance with the AT&T Intra-Office Fiber Optic Standards (ducts containing both high-speed and low-speed jumpers must be marked with both high-speed and low-speed designations)? (Section 2.3.4 of the AT&T Intra-Office Fiber Optic Standards)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M7	If the equipment area was a new area, was the Common Duct Plan used? (Section 3.1.1 of the AT&T Intra-Office Fiber Optic Standards)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M8	Have the appropriate TSG Certification Checklist and the Installation Test Data Sheets been completed, retained and returned to the TSG per instruction?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M9	Has User/Service Manual, drawings, etc., been turned over to the AT&T OSWF?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Category 5 – Switching

		Y	N	N/A
N1	Has system software been properly loaded? (Product Manuals)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N2	Have remote access units been tested? (SMOP)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N3	Have the Integrated and Isolated ground planes been checked for intervening violations (ATTP 803-501-100, Sect 7.10)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N4	Has fiber diversity been maintained for service and protection cabling from the switching area to the transport area? (Section 3.1A of the AT&T Intra-Office Fiber Optic Standards)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N5	The supplier will complete a Golden Path Checklist form for each office that Golden Path is installed. Has this checklist been completed? (Golden Path Checklist is in Infoswap)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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Category 6 – Removals

		Y	N	N/A
P1	Were all items requested in the AT&T supplier order removed and equipment disposed of?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2	Are all remaining anchor bolts associated with the removal activity not protruding above the floor (concrete slab) level? (ATTP 800-614-105, Sect 20.18, R20-166A)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3	Was equipment removed in the FIC location identified in the AT&T equipment order?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P4	If the installed equipment terminated on DSX, DACS, GTP, TNS/LC, etc., were these assignments spared and/or re-designated? (ATTP 800-614-105, Sect 20.18.3, R20-158)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>P5</u>	If the installed equipment terminated on local alarms, were the assignments disconnected and spared? (ATTP 800-614-105, Sect 20.6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P6	If the installed equipment terminated on remote alarms, were the assignments disconnected and spared? (ATTP 800-614-105, Sect 20.6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7	If cable mining was completed, were the remaining cables on the racks Re-sewn if required? (ATTP 800-614-105, Sect 20.17.4, R20-139)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P8	If a bay or bays were removed in the middle of a lineup were wire shields put in place to protect the adjacent bays? (ATTP 800-614-105, Sect 20.18.3, R20-155)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
p9	Have end guards and cable rack covers been put back in place? (ATTP 800-614-105, Sect 20.18.3, R20-155)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>P10</u>	Were cable penetrations in walls, floors, ceilings, etc, covered and fire stopped properly (THIS INCLUDES REPLACING THE HOLE COVERS IF REQUIRED AFTER CABLE REMOVAL)? (ATTP 800-614-105, Sect 20.10& ATTP 770-350-100)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P11	If cable mining was not required or specified, were cables removed up to a point on the horizontal cable rack and as close as practical to the cross strap to which they were last secured? (ATTP 800-614-105, Sect 20.17.4, R20-140)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P12	If the job does not specify the extent of the removal from a vertical cable rack, were the cables cut below the cable hole and floor where the cable removal was performed? (ATTP 800-614-105, Sect 20.17.4, R20-141)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P13	All cables and wire remaining in the cable removal or mining area shall meet the requirements specified in (ATTP 800-614-105, Sect 20.17.4, R20-139)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>P14</u>	Has all overhead ironwork & bracing been removed as per job spec. (ATTP 800-614-105, Sect 20.23.1, R20-190)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>P15</u>	Does remaining superstructure meet bracing requirements as per ATTP 800-614-105, Sect 20.23.3, R20-198.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>P16</u>	If stanchions were needed, were they installed properly? (ATTP 800-614-105, Sect 10.5.3, & Sect 20.23.2, R20-192)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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P17	Were all appliance outlets, lights, switches and risers removed or relocated as per the job spec.? (ATTP 800-614-105, Sect 20.21)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P18	Were any switches or switch risers remaining, which had their end guard removed, relocated to nearest wall or column? (Moved per TEO or ATTP 800-614-105, Sect 20.21, R20-182)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P19	Does the integrity of the office ground or line-up remain intact? (ATTP 800-614-105, Sect 20.13 & ATTP 803-501-100)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P20	If the equipment being removed either utilized or was in the vicinity of an isolated ground system, was the isolated system left un-violated? (ATTP 800-614-105, Sect 20.13 & ATTP 803-501-100)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P21	Has the equipment been removed from the DC Power Source? (ATTP 790-100-669, Sect 12.11)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P22	Has the DC power source (BDFB or MPB) labeling been removed? (ATTP790-100-669, Sect 12.11)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P23	Have all DC power cables, from which power was removed, been disconnected within the BDFB cut back, secured to the cable form and the exposed ends insulated with a heat shrink cap, rubber tape or friction tape? (ATTP 790-100-669, Sect 12.11)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P24	Have dummy fuses been installed at all vacant fuse locations? (ATTP790-100-669, Sect 8.06)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P25	If any AC circuit breakers were assigned, were those breakers turned off, the associated leads removed, and the ends insulated? (ATTP 800-614-105, Sect 20.16.3, R20-111)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P26	Was the circuit identification card inside of the AC service cabinet updated to reflect the circuits removed? (ATTP 800-614-105 Sect 20.16.3, R20-112 & R20-113)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P27	Are all remaining AC outlets and plugs still operative & the correct polarity? (ATTP 800-614-105, Sect 20.21)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P28	If AC outlets were moved, were they brought up to NEC code by having the ACEG lead installed? (ATTP 790-100-669, Sect 10.02)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P29	Were end guards & aisle directory plates updated to show correct configuration? (ATTP 800-614-105, Sect 20.18.3, R20-167)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P30	Was the alarm system tested prior to and after the removal? (ATTP 800-614-105, Sect 20.12, R20-52)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P31	Have New Frame Low Voltage & 500 Volt Breakdown Tests been performed on the existing equipment located on isolated ground planes? (ATTP 803-501-100, Sect 7.6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P32	Have all floor tiles or walls damaged during the removal been repaired? (ATTP 800-614-105, Sect 2.4, R2-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P33	Have supplier tools associated with this order been removed from the job location? (This would include any protection needed when the removal was being performed.) (ATTP 800-614-105 Sect 6.7, R6-23)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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P34	Have all potential hazards that may jeopardize personnel safety or additional work effort been identified and sent to the AT&T engineer? Ex: replacement of raised floor tiles with large cut openings, warped raised floor tiles, the additional need for stanchions and etc. (ATTP 800-614-105, Sect 20.2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Category 7 - MISCELLANEOUS STANDARDS DEFICIENCIES

Please list any additional quality installation standards errors found during this job audit which have not been covered specifically in Section 5.

		N
Z1		<input type="checkbox"/>
Z2		<input type="checkbox"/>
Z3		<input type="checkbox"/>
Z4		<input type="checkbox"/>
Z5		<input type="checkbox"/>
Z6		<input type="checkbox"/>
Z7		<input type="checkbox"/>
Z8		<input type="checkbox"/>
Z9		<input type="checkbox"/>
Z10		<input type="checkbox"/>



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NOTES

Please list any additional items found during the audit, not to be counted as errors.



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EXCEPTIONS, WAIVERS & EXPLANATIONS

IF THERE IS ANY LEGITIMATE REASON THAT AN INSTALLATION CHECKLIST QUESTION WAS ANSWERED “NO”, PLEASE EXPLAIN AND ATTACH COPY OF WAIVER &/OR OTHER SUPPORT DOCUMENTATION IF APPLICABLE. (If there are no explanations or no legitimate reasons not to apply the installation standard, the Auditor shall take no further action on the item in this section. It will then be considered an error. If the explanation is considered legitimate, the Auditor shall check the “Y” box so that error is not counted against supplier.)

ID#	Y	Explanations/Comments
	<input type="checkbox"/>	
	<input type="checkbox"/>	
	<input type="checkbox"/>	
	<input type="checkbox"/>	
	<input type="checkbox"/>	
	<input type="checkbox"/>	
	<input type="checkbox"/>	
	<input type="checkbox"/>	
	<input type="checkbox"/>	
	<input type="checkbox"/>	
	<input type="checkbox"/>	
	<input type="checkbox"/>	

(Use Additional Pages as Necessary)