	A	B	C	D	E	F	G	H	I	J	K
140	Tennessee										
141	Nonrecurring Worktimes										
142	Study Period: 2000-2002										
143											
144	**A.8.5**	**INSTALL**		**4-Wire High Bit Rate Digital Subscriber Line (HDSL) Compatible Loop (w/LMU)**							
145	**A.8.599**	**DISCONNECT**									
146	Location Life		52 Months	(=INPUTS_MISC!C11)							
147											
				Worktimes (Min.)					**Worktimes (Hrs.)**		
148	**Source**	**Description**	**JFC / JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**
149	Inputs_Service Inquiry, Row 15	SERVICE INQUIRY	SDWC	31.90	0.00	12.13	0.00	0.5317	0.0000	0.2022	0.0000
150	Inputs_Service Inquiry, Row 19	SERVICE INQUIRY	230X	45.00	30.00	10.00	10.00	0.7500	0.5000	0.1667	0.1667
151	Inputs_Engineering, Row 8 + 9	ENGINEERING	JG57	52.00	0.00	52.00	0.00	0.8667	0.0000	0.8667	0.0000
152	Inputs_Engineering, Row 7+10 + 11	ENGINEERING	4FXX	35.00	0.00	20.00	0.00	0.5833	0.0000	0.3333	0.0000
153	Inputs_Engineering, Row 19 + 20	ENGINEERING	4N4X	4.95	2.65	2.70	0.40	0.0825	0.0442	0.0450	0.0067
154	Inputs_Engineering, Row 15	ENGINEERING	4M1X	2.40	0.35	2.40	0.35	0.0400	0.0058	0.0400	0.0058
155	Inputs_Connect & Test, Row 14-25	CONNECT & TEST	4AXX	38.34	30.94	8.97	3.00	0.6390	0.5157	0.1495	0.0500
156	Inputs_Connect & Test, Row 42	CONNECT & TEST	4WXX	15.00	15.00	0.00	0.00	0.2500	0.2500	0.0000	0.0000
157	Inputs_Connect & Test, Row 46	CONNECT & TEST	431X	10.20	7.65	5.10	3.57	0.1700	0.1275	0.0850	0.0595
158	Inputs_Connect & Test, Row 31-38	CONNECT & TEST	411X	157.89	51.00	118.89	12.00	2.6315	0.8500	1.9815	0.2000
159	Inputs_Travel, Row 7	TRAVEL	411X	20.00	20.00	0.00	0.00	0.3333	0.3333	0.0000	0.0000
160											

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	A	B	C	D	E	F	G	H	I	J	K
161	Tennessee										
162	Nonrecurring Worktimes										
163	Study Period: 2000-2002										
164											
165	**A.8.598**	**TESTING**		**4-Wire High Bit Rate Digital Subscriber Line (HDSL) Compatible Loop (w/LMU)**							
166											
167	Location Life		52 Months	(=INPUTS_MISCIC11)							
168											
				Worktimes (Min.)				**Worktimes (Hrs.)**			
169	**Source**	**Description**	**JFC / JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**
170	Inputs_Connect & Test, Rows 20+22	CONNECT & TEST	4AXX	74.43	0.00	74.43	0.00	1.2406	0.0000	1.2406	0.0000
171	Inputs_Connect & Test, Row 46	CONNECT & TEST	431X	6.80	0.00	3.40	0.00	0.1133	0.0000	0.0567	0.0000
172	Inputs_Connect & Test, Rows 33+34+35+37	CONNECT & TEST	411X	67.66	0.00	67.66	0.00	1.1276	0.0000	1.1276	0.0000
173											
174											

001229

	A	B	C	D	E	F	G	H	I	J	K
175	Tennessee										
176	Nonrecurring Worktimes										
177	Study Period: 2000-2002										
178											
179	**A.8.6**	**INSTALL**		**4-Wire High Bit Rate Digital Subscriber Line (HDSL) Compatible Loop (w/o LMU)**							
180	**A.8.699**	**DISCONNECT**									
181	Location Life	52 Months		(=INPUTS_MISC!C11)							
182											
				Worktimes (Min.)					**Worktimes (Hrs.)**		
183	**Source**	**Description**	**JFC / JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**
184	Inputs_Service Order, Row (E7*I7)	SERVICE ORDER	230X	1.05	1.05	1.05	1.05	0.0175	0.0175	0.0175	0.0175
185	Inputs_Engineering, Row (E8*I8)+(E9*I9)	ENGINEERING	JG57	5.20	0.00	5.20	0.00	0.0867	0.0000	0.0867	0.0000
186	Inputs_Engineering, Row (E7*I7)+(E10*I10)+(E11*I11)	ENGINEERING	4FXX	3.50	0.00	2.00	0.00	0.0583	0.0000	0.0333	0.0000
187	Inputs_Engineering, Row 19+20	ENGINEERING	4N4X	4.95	2.65	2.70	0.40	0.0825	0.0442	0.0450	0.0067
188	Inputs_Engineering, Row 15	ENGINEERING	4M1X	2.40	0.35	2.40	0.35	0.0400	0.0058	0.0400	0.0058
189	Inputs_Connect & Test, Row 14-25	CONNECT & TEST	4AXX	38.34	30.94	8.97	3.00	0.6390	0.5157	0.1495	0.0500
190	Inputs_Connect & Test, Row 42	CONNECT & TEST	4WXX	15.00	15.00	0.00	0.00	0.2500	0.2500	0.0000	0.0000
191	Inputs_Connect & Test, Row 46	CONNECT & TEST	431X	10.20	7.65	5.10	3.57	0.1700	0.1275	0.0850	0.0595
192	Inputs_Connect & Test, Row 31-38	CONNECT & TEST	411X	157.89	51.00	118.89	12.00	2.6315	0.8500	1.9815	0.2000
193	Inputs_Travel, Row 7	TRAVEL	411X	20.00	20.00	0.00	0.00	0.3333	0.3333	0.0000	0.0000
194											
195											

	A	B	C	D	E	F	G	H	I	J	K
196	Tennessee										
197	Nonrecurring Worktimes										
198	Study Period: 2000-2002										
199											
200	**A.8.698**	**TESTING**		**4-Wire High Bit Rate Digital Subscriber Line (HDSL) Compatible Loop (w/o LMU)**							
201											
202	Location Life		52 Months	(=INPUTS_MISC!C11)							
203					**Worktimes (Min.)**				**Worktimes (Hrs.)**		
204	**Source**	**Description**	**JFC / JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**
205	Inputs_Connect & Test, Rows 20+22	CONNECT & TEST	4AXX	74.43	0.00	74.43	0.00	1.2406	0.0000	1.2406	0.0000
206	Inputs_Connect & Test, Row 46	CONNECT & TEST	431X	6.80	0.00	3.40	0.00	0.1133	0.0000	0.0567	0.0000
207	Inputs_Connect & Test, Rows 33+34+35+37	CONNECT & TEST	411X	67.66	0.00	67.66	0.00	1.1276	0.0000	1.1276	0.0000
208											
209											

001231

	A	B	C	D	E	F	G	H	I	J	K
210	Tennessee										
211	Nonrecurring Worktimes										
212	Study Period: 2000-2002										
213											
214	**A.13.8**	**INSTALL**		**2-Wire Copper Loop - Short (w/LMU)**							
215	**A.13.899**	**DISCONNECT**									
216	Location Life		46 Months	(=INPUTS_MISC!C9)							
217					Worktimes (Min.)				Worktimes (Hrs.)		
218	**Source**	**Description**	**JFC / JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**
219	Inputs_Service Inquiry, Row 15	SERVICE INQUIRY	SDWC	31.90	0.00	12.13	0.00	0.5317	0.0000	0.2022	0.0000
220	Inputs_Service Inquiry, Row 19	SERVICE INQUIRY	230X	45.00	30.00	10.00	10.00	0.7500	0.5000	0.1667	0.1667
221	Inputs_Engineering, Row 8 + 9	ENGINEERING	JG57	52.00	0.00	52.00	0.00	0.8667	0.0000	0.8667	0.0000
222	Inputs_Engineering, Row 7+10 + 11	ENGINEERING	4FXX	35.00	0.00	20.00	0.00	0.5833	0.0000	0.3333	0.0000
223	Inputs_Engineering, Row 19 + 20	ENGINEERING	4N4X	4.95	2.65	2.70	0.40	0.0825	0.0442	0.0450	0.0067
224	Inputs_Engineering, Row 15	ENGINEERING	4M1X	2.40	0.35	2.40	0.35	0.0400	0.0058	0.0400	0.0058
225	Inputs_Connect & Test, Row 14-25	CONNECT & TEST	4AXX	35.94	30.94	6.57	3.00	0.5990	0.5157	0.1095	0.0500
226	Inputs_Connect & Test, Row 42	CONNECT & TEST	4WXX	15.00	15.00	0.00	0.00	0.2500	0.2500	0.0000	0.0000
227	Inputs_Connect & Test, Row 46	CONNECT & TEST	431X	10.20	7.65	5.10	3.57	0.1700	0.1275	0.0850	0.0595
228	Inputs_Connect & Test, Row 31-38	CONNECT & TEST	411X	73.16	47.00	34.16	8.00	1.2193	0.7833	0.5693	0.1333
229	Inputs_Travel, Row 7	TRAVEL	411X	20.00	20.00	0.00	0.00	0.3333	0.3333	0.0000	0.0000
230											
231											

001232

	A	B	C	D	E	F	G	H	I	J	K
232	Tennessee										
233	Nonrecurring Worktimes										
234	Study Period: 2000-2002										
235											
236	**A.13.898**	**TESTING**		**2-Wire Copper Loop - Short (w/LMU)**							
237											
238	Location Life		46 Months	(=INPUTS_MISC!C9)							
239											
				Worktimes (Min.)				**Worktimes (Hrs.)**			
240	**Source**	**Description**	**JFC / JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**
241	Inputs_Connect & Test, Rows 20+22	CONNECT & TEST	4AXX	48.59	0.00	48.59	0.00	0.8099	0.0000	0.8099	0.0000
242	Inputs_Connect & Test, Row 46	CONNECT & TEST	431X	6.80	0.00	3.40	0.00	0.1133	0.0000	0.0567	0.0000
243	Inputs_Connect & Test, Rows 33+34+35+37	CONNECT & TEST	411X	45.10	0.00	45.10	0.00	0.7517	0.0000	0.7517	0.0000
244											
245											
246											

001233

	A	B	C	D	E	F	G	H	I	J	K
247	Tennessee										
248	Nonrecurring Worktimes										
249	Study Period: 2000-2002										
250											
251	**A.13.9**	**INSTALL**		**2-Wire Copper Loop - Short (w/o LMU)**							
252	**A.13.999**	**DISCONNECT**									
253	Location Life		46 Months	(=INPUTS_MISC!C9)							
254					Worktimes (Min.)				Worktimes (Hrs.)		
255	**Source**	**Description**	**JFC / JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**
256	Inputs_Service Order, Row (E7*I7)	SERVICE ORDER	230X	1.05	1.05	1.05	1.05	0.0175	0.0175	0.0175	0.0175
257	Inputs_Engineering, Row (E8*I8)+(E9*I9)	ENGINEERING	JG57	5.20	0.00	5.20	0.00	0.0867	0.0000	0.0867	0.0000
258	Inputs_Engineering, Row (E7*I7)+(E10*I10)+(E11*I11)	ENGINEERING	4FXX	3.50	0.00	2.00	0.00	0.0583	0.0000	0.0333	0.0000
259	Inputs_Engineering, Row 19+20	ENGINEERING	4N4X	4.95	2.65	2.70	0.40	0.0825	0.0442	0.0450	0.0067
260	Inputs_Engineering, Row 15	ENGINEERING	4M1X	2.40	0.35	2.40	0.35	0.0400	0.0058	0.0400	0.0058
261	Inputs_Connect & Test, Row 14-25	CONNECT & TEST	4AXX	35.94	30.94	6.57	3.00	0.5990	0.5157	0.1095	0.0500
262	Inputs_Connect & Test, Row 42	CONNECT & TEST	4WXX	15.00	15.00	0.00	0.00	0.2500	0.2500	0.0000	0.0000
263	Inputs_Connect & Test, Row 46	CONNECT & TEST	431X	10.20	7.65	5.10	3.57	0.1700	0.1275	0.0850	0.0595
264	Inputs_Connect & Test, Row 31-38	CONNECT & TEST	411X	73.16	47.00	34.16	8.00	1.2193	0.7833	0.5693	0.1333
265	Inputs_Travel, Row 7	TRAVEL	411X	20.00	20.00	0.00	0.00	0.3333	0.3333	0.0000	0.0000
266											
267											

	A	B	C	D	E	F	G	H	I	J	K
268	Tennessee										
269	Nonrecurring Worktimes										
270	Study Period: 2000-2002										
271											
272	**A.13.998**	**TESTING**		**2-Wire Copper Loop - Short (w/o LMU)**							
273											
274	Location Life		46 Months	(=INPUTS_MISC!C9)							
275					**Worktimes (Min.)**				**Worktimes (Hrs.)**		
276	**Source**	**Description**	**WS**	**First Install**	**Disconnect**	**Addtl Install**	**Disconnect**	**First Install**	**First Disconnect**	**Addtl Install**	**Disconnect**
277	Inputs_Connect & Test, Rows 20+22	CONNECT & TEST	4AXX	48.59	0.00	48.59	0.00	0.8099	0.0000	0.8099	0.0000
278	Inputs_Connect & Test, Row 46	CONNECT & TEST	431X	6.80	0.00	3.40	0.00	0.1133	0.0000	0.0567	0.0000
279	Inputs_Connect & Test, Rows 33+34+35+37	CONNECT & TEST	411X	45.10	0.00	45.10	0.00	0.7517	0.0000	0.7517	0.0000
280											
281											

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	A	B	C	D	E	F	G	H	I	J	K
282	Tennessee										
283	Nonrecurring Worktimes										
284	Study Period: 2000-2002										
285											
286	**A.14.8**	**INSTALL**		**4-Wire Copper Loop - Short (w/LMU)**							
287	**A.14.899**	**DISCONNECT**									
288	Location Life		52 Months	(=INPUTS_MISC!C11)							
289					**Worktimes (Min.)**				**Worktimes (Hrs.)**		
290	**Source**	**Description**	**JFC / JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**
291	Inputs_Service Inquiry, Row 15	SERVICE INQUIRY	SDWC	31.90	0.00	12.13	0.00	0.5317	0.0000	0.2022	0.0000
292	Inputs_Service Inquiry, Row 19	SERVICE INQUIRY	230X	45.00	30.00	10.00	10.00	0.7500	0.5000	0.1667	0.1667
293	Inputs_Engineering, Row 8 + 9	ENGINEERING	JG57	52.00	0.00	52.00	0.00	0.8667	0.0000	0.8667	0.0000
294	Inputs_Engineering, Row 7+10 + 11	ENGINEERING	4FXX	35.00	0.00	20.00	0.00	0.5833	0.0000	0.3333	0.0000
295	Inputs_Engineering, Row 19 + 20	ENGINEERING	4N4X	4.95	2.65	2.70	0.40	0.0825	0.0442	0.0450	0.0067
296	Inputs_Engineering, Row 15	ENGINEERING	4M1X	2.40	0.35	2.40	0.35	0.0400	0.0058	0.0400	0.0058
297	Inputs_Connect & Test, Row 14-25	CONNECT & TEST	4AXX	108.83	30.94	79.46	3.00	1.8139	0.5157	1.3244	0.0500
298	Inputs_Connect & Test, Row 42	CONNECT & TEST	4WXX	15.00	15.00	0.00	0.00	0.2500	0.2500	0.0000	0.0000
299	Inputs_Connect & Test, Row 46	CONNECT & TEST	431X	17.00	12.75	8.50	5.95	0.2833	0.2125	0.1417	0.0992
300	Inputs_Connect & Test, Row 31-38	CONNECT & TEST	411X	153.39	51.00	114.39	12.00	2.5565	0.8500	1.9065	0.2000
301	Inputs_Travel, Row 7	TRAVEL	411X	20.00	20.00	0.00	0.00	0.3333	0.3333	0.0000	0.0000
302											
303											

	A	B	C	D	E	F	G	H	I	J	K
304	Tennessee										
305	Nonrecurring Worktimes										
306	Study Period: 2000-2002										
307											
308	**A.14.898**	**TESTING**		**4-Wire Copper Loop - Short (w/LMU)**							
309											
310	Location Life		52 Months	(=INPUTS_MISC!C11)							
311					Worktimes (Min.)				Worktimes (Hrs.)		
312	**Source**	**Description**	**WS**	**First Install**	**Disconnect**	**Addtl Install**	**Disconnect**	**First Install**	**First Disconnect**	**Addtl Install**	**Disconnect**
313	Inputs_Connect & Test, Rows 20+22	CONNECT & TEST	4AXX	74.43	0.00	74.43	0.00	1.2406	0.0000	1.2406	0.0000
314	Inputs_Connect & Test, Row 46	CONNECT & TEST	431X	6.80	0.00	3.40	0.00	0.1133	0.0000	0.0567	0.0000
315	Inputs_Connect & Test, Rows 33+34+35+37	CONNECT & TEST	411X	67.66	0.00	67.66	0.00	1.1276	0.0000	1.1276	0.0000
316											
317											

001237

	A	B	C	D	E	F	G	H	I	J	K
318	Tennessee										
319	Nonrecurring Worktimes										
320	Study Period: 2000-2002										
321											
322	**A.14.9**	**INSTALL**		**4-Wire Copper Loop - Short (w/o LMU)**							
323	**A.14.999**	**DISCONNECT**									
324	Location Life	52 Months		(=INPUTS_MISC!C11)	**Worktimes (Min.)**				**Worktimes (Hrs.)**		
326	**Source**	**Description**	**JFC / JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**
327	Inputs_Service Order, Row (E7*I7)	SERVICE ORDER	230X	1.05	1.05	1.05	1.05	0.0175	0.0175	0.0175	0.0175
328	Inputs_Engineering, Row (E8*I8)+(E9*I9)	ENGINEERING	JG57	5.20	0.00	5.20	0.00	0.0867	0.0000	0.0867	0.0000
329	Inputs_Engineering, Row (E7*I7)+(E10*I10)+(E11*I11)	ENGINEERING	4FXX	3.50	0.00	2.00	0.00	0.0583	0.0000	0.0333	0.0000
330	Inputs_Engineering, Row 19+20	ENGINEERING	4N4X	4.95	2.65	2.70	0.40	0.0825	0.0442	0.0450	0.0067
331	Inputs_Engineering, Row 15	ENGINEERING	4M1X	2.40	0.35	2.40	0.35	0.0400	0.0058	0.0400	0.0058
332	Inputs_Connect & Test, Row 14-25	CONNECT & TEST	4AXX	108.83	30.94	79.46	3.00	1.8139	0.5157	1.3244	0.0500
333	Inputs_Connect & Test, Row 42	CONNECT & TEST	4WXX	15.00	15.00	0.00	0.00	0.2500	0.2500	0.0000	0.0000
334	Inputs_Connect & Test, Row 46	CONNECT & TEST	431X	17.00	12.75	8.50	5.95	0.2833	0.2125	0.1417	0.0992
335	Inputs_Connect & Test, Row 31-38	CONNECT & TEST	411X	153.39	51.00	114.39	12.00	2.5565	0.8500	1.9065	0.2000
336	Inputs_Travel, Row 7	TRAVEL	411X	20.00	20.00	0.00	0.00	0.3333	0.3333	0.0000	0.0000
337											
338											

001238

	A	B	C	D	E	F	G	H	I	J	K
339	Tennessee										
340	Nonrecurring Worktimes										
341	Study Period: 2000-2002										
342											
343	**A.14.998**	**TESTING**		**4-Wire Copper Loop - Short (w/o LMU)**							
344											
345	Location Life		52 Months	(=INPUTS_MISCIC11)							
346				**Worktimes (Min.)**				**Worktimes (Hrs.)**			
347	**Source**	**Description**	**JFC / JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**
348	Inputs_Connect & Test, Rows 20+22	CONNECT & TEST	4AXX	74.43	0.00	74.43	0.00	1.2406	0.0000	1.2406	0.0000
349	Inputs_Connect & Test, Row 46	CONNECT & TEST	431X	6.80	0.00	3.40	0.00	0.1133	0.0000	0.0567	0.0000
350	Inputs_Connect & Test, Rows 33+34+35+37	CONNECT & TEST	411X	67.66	0.00	67.66	0.00	1.1276	0.0000	1.1276	0.0000
351											
352											

	A	B	C	D	E	F	G	H	I	J	K
353	Tennessee										
354	Nonrecurring Worktimes										
355	Study Period: 2000-2002										
356											
357	**A.13.10**	**INSTALL**		**2-Wire Copper Loop - Long (w/LMU)**							
358	**A.13.1099**	**DISCONNECT**									
359	Location Life		46 Months	(=INPUTS_MISC!C9)							
360					**Worktimes (Min.)**				**Worktimes (Hrs.)**		
361	**Source**	**Description**	**JFC / JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**
362	Inputs_Service Inquiry, Row 15	SERVICE INQUIRY	SDWC	31.90	0.00	12.13	0.00	0.5317	0.0000	0.2022	0.0000
363	Inputs_Service Inquiry, Row 19	SERVICE INQUIRY	230X	45.00	30.00	10.00	10.00	0.7500	0.5000	0.1667	0.1667
364	Inputs_Engineering, Row 8 + 9	ENGINEERING	JG57	52.00	0.00	52.00	0.00	0.8667	0.0000	0.8667	0.0000
365	Inputs_Engineering, Row 7+10 + 11	ENGINEERING	4FXX	35.00	0.00	20.00	0.00	0.5833	0.0000	0.3333	0.0000
366	Inputs_Engineering, Row 19 + 20	ENGINEERING	4N4X	4.95	2.65	2.70	0.40	0.0825	0.0442	0.0450	0.0067
367	Inputs_Engineering, Row 15	ENGINEERING	4M1X	2.40	0.35	2.40	0.35	0.0400	0.0058	0.0400	0.0058
368	Inputs_Connect & Test, Row 14-24	CONNECT & TEST	4AXX	84.53	30.94	55.16	3.00	1.4089	0.5157	0.9194	0.0500
369	Inputs_Connect & Test, Row 42	CONNECT & TEST	4WXX	15.00	15.00	0.00	0.00	0.2500	0.2500	0.0000	0.0000
370	Inputs_Connect & Test, Row 46	CONNECT & TEST	431X	17.00	12.75	8.50	5.95	0.2833	0.2125	0.1417	0.0992
371	Inputs_Connect & Test, Row 31-38	CONNECT & TEST	411X	115.26	47.00	76.26	8.00	1.9210	0.7833	1.2710	0.1333
372	Inputs_Travel, Row 7	TRAVEL	411X	20.00	20.00	0.00	0.00	0.3333	0.3333	0.0000	0.0000
373											
374											

001240

	A	B	C	D	E	F	G	H	I	J	K
375	Tennessee										
376	Nonrecurring Worktimes										
377	Study Period: 2000-2002										
378											
379	**A.13.1098**	**TESTING**		**2-Wire Copper Loop - Long (w/LMU)**							
380											
381	Location Life	46	Months	(=INPUTS_MISC!C9)							
382				**Worktimes (Min.)**				**Worktimes (Hrs.)**			
383	**Source**	**Description**	**JFC / JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**
384	Inputs_Connect & Test, Rows 20+22	CONNECT & TEST	4AXX	48.59	0.00	48.59	0.00	0.8099	0.0000	0.8099	0.0000
385	Inputs_Connect & Test, Row 46	CONNECT & TEST	431X	6.80	0.00	3.40	0.00	0.1133	0.0000	0.0567	0.0000
386	Inputs_Connect & Test, Rows 33+34+35+37	CONNECT & TEST	411X	45.10	0.00	45.10	0.00	0.7517	0.0000	0.7517	0.0000
387											
388											

001241

	A	B	C	D	E	F	G	H	I	J	K
389	Tennessee										
390	Nonrecurring Worktimes										
391	Study Period: 2000-2002										
392											
393	**A.13.11**	**INSTALL**		**2-Wire Copper Loop - Long (w/o LMU)**							
394	**A.13.1199**	**DISCONNECT**									
395	Location Life	46 Months		(=INPUTS_MISC!C9)							
396					**Worktimes (Min.)**				**Worktimes (Hrs.)**		
397	**Source**	**Description**	**JFC / JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**
398	Inputs_Service Order, Row (E7*I7)	SERVICE ORDER	230X	1.05	1.05	1.05	1.05	0.0175	0.0175	0.0175	0.0175
399	Inputs_Engineering, Row (E8*I8)+(E9*I9)	ENGINEERING	JG57	5.20	0.00	5.20	0.00	0.0867	0.0000	0.0867	0.0000
400	Inputs_Engineering, Row (E7*I7)+(E10*I10)+(E11*I11)	ENGINEERING	4FXX	3.50	0.00	2.00	0.00	0.0583	0.0000	0.0333	0.0000
401	Inputs_Engineering, Row 19+20	ENGINEERING	4N4X	4.95	2.65	2.70	0.40	0.0825	0.0442	0.0450	0.0067
402	Inputs_Engineering, Row 15	ENGINEERING	4M1X	2.40	0.35	2.40	0.35	0.0400	0.0058	0.0400	0.0058
403	Inputs_Connect & Test, Row 14-24	CONNECT & TEST	4AXX	84.53	30.94	55.16	3.00	1.4089	0.5157	0.9194	0.0500
404	Inputs_Connect & Test, Row 42	CONNECT & TEST	4WXX	15.00	15.00	0.00	0.00	0.2500	0.2500	0.0000	0.0000
405	Inputs_Connect & Test, Row 46	CONNECT & TEST	431X	17.00	12.75	8.50	5.95	0.2833	0.2125	0.1417	0.0992
406	Inputs_Connect & Test, Row 31-38	CONNECT & TEST	411X	115.26	47.00	76.26	8.00	1.9210	0.7833	1.2710	0.1333
407	Inputs_Travel, Row 7	TRAVEL	411X	20.00	20.00	0.00	0.00	0.3333	0.3333	0.0000	0.0000
408											
409											

001242

	A	B	C	D	E	F	G	H	I	J	K
410	Tennessee										
411	Nonrecurring Worktimes										
412	Study Period: 2000-2002										
413											
414	**A.13.1198**	**TESTING**		**2-Wire Copper Loop - Long (w/o LMU)**							
415											
416	Location Life	46	Months	(=INPUTS_MISC!C9)							
417					Worktimes (Min.)				Worktimes (Hrs.)		
418	**Source**	**Description**	**JFC / JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**
419	Inputs_Connect & Test, Rows 20+22	CONNECT & TEST	4AXX	48.59	0.00	48.59	0.00	0.8099	0.0000	0.8099	0.0000
420	Inputs_Connect & Test, Row 46	CONNECT & TEST	431X	6.80	0.00	3.40	0.00	0.1133	0.0000	0.0567	0.0000
421	Inputs_Connect & Test, Rows 33+34+35+37	CONNECT & TEST	411X	45.10	0.00	45.10	0.00	0.7517	0.0000	0.7517	0.0000
422											
423											

001243

	A	B	C	D	E	F	G	H	I	J	K
424	Tennessee										
425	Nonrecurring Worktimes										
426	Study Period: 2000-2002										
427											
428	**A.14.10**	**INSTALL**		**4-Wire Copper Loop - Long (w/LMU)**							
429	**A.14.1099**	**DISCONNECT**									
430	Location Life	52	Months	(=INPUTS_MISC!C11)							
431					**Worktimes (Min.)**				**Worktimes (Hrs.)**		
432	**Source**	**Description**	**JFC / JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**
433	Inputs_Service Inquiry, Row 15	SERVICE INQUIRY	SDWC	31.90	0.00	12.13	0.00	0.5317	0.0000	0.2022	0.0000
434	Inputs_Service Inquiry, Row 19	SERVICE INQUIRY	230X	45.00	30.00	10.00	10.00	0.7500	0.5000	0.1667	0.1667
435	Inputs_Engineering, Row 8 + 9	ENGINEERING	JG57	52.00	0.00	52.00	0.00	0.8667	0.0000	0.8667	0.0000
436	Inputs_Engineering, Row 7+10 + 11	ENGINEERING	4FXX	35.00	0.00	20.00	0.00	0.5833	0.0000	0.3333	0.0000
437	Inputs_Engineering, Row 19 + 20	ENGINEERING	4N4X	4.95	2.65	2.70	0.40	0.0825	0.0442	0.0450	0.0067
438	Inputs_Engineering, Row 15	ENGINEERING	4M1X	2.40	0.35	2.40	0.35	0.0400	0.0058	0.0400	0.0058
439	Inputs_Connect & Test, Row 14-24	CONNECT & TEST	4AXX	108.83	30.94	79.46	3.00	1.8139	0.5157	1.3244	0.0500
440	Inputs_Connect & Test, Row 42	CONNECT & TEST	4WXX	15.00	15.00	0.00	0.00	0.2500	0.2500	0.0000	0.0000
441	Inputs_Connect & Test, Row 46	CONNECT & TEST	431X	17.00	12.75	8.50	5.95	0.2833	0.2125	0.1417	0.0992
442	Inputs_Connect & Test, Row 31-38	CONNECT & TEST	411X	153.39	51.00	114.39	12.00	2.5565	0.8500	1.9065	0.2000
443	Inputs_Travel, Row 7	TRAVEL	411X	20.00	20.00	0.00	0.00	0.3333	0.3333	0.0000	0.0000
444											
445											

	A	B	C	D	E	F	G	H	I	J	K
446	Tennessee										
447	Nonrecurring Worktimes										
448	Study Period: 2000-2002										
449											
450	**A.14.1098**	**TESTING**		**4-Wire Copper Loop - Long (w/LMU)**							
451											
452	Location Life		52 Months	(=INPUTS_MISC!C11)							
453					**Worktimes (Min.)**				**Worktimes (Hrs.)**		
454	**Source**	**Description**	**JFC / JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**
455	Inputs_Connect & Test, Rows 20+22	CONNECT & TEST	4AXX	74.43	0.00	74.43	0.00	1.2406	0.0000	1.2406	0.0000
456	Inputs_Connect & Test, Row 46	CONNECT & TEST	431X	6.80	0.00	3.40	0.00	0.1133	0.0000	0.0567	0.0000
457	Inputs_Connect & Test, Rows 33+34+35+37	CONNECT & TEST	411X	67.66	0.00	67.66	0.00	1.1276	0.0000	1.1276	0.0000
458											
459											

	A	B	C	D	E	F	G	H	I	J	K
460	Tennessee										
461	Nonrecurring Worktimes										
462	Study Period: 2000-2002										
463											
464	**A.14.11**	**INSTALL**		**4-Wire Copper Loop - Long (w/o LMU)**							
465	**A.14.1199**	**DISCONNECT**									
466	Location Life	52 Months		(=INPUTS_MISC!C11)							
467				**Worktimes (Min.)**				**Worktimes (Hrs.)**			
468	**Source**	**Description**	**JFC / JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**
469	Inputs_Service Order, Row (E7*I7)	SERVICE ORDER	230X	1.05	1.05	1.05	1.05	0.0175	0.0175	0.0175	0.0175
470	Inputs_Engineering, Row (E8*I8)+(E9*I9)	ENGINEERING	JG57	5.20	0.00	5.20	0.00	0.0867	0.0000	0.0867	0.0000
471	Inputs_Engineering, Row (E7*I7)+(E10*I10)+(E11*I11)	ENGINEERING	4FXX	3.50	0.00	2.00	0.00	0.0583	0.0000	0.0333	0.0000
472	Inputs_Engineering, Row 19+20	ENGINEERING	4N4X	4.95	2.65	2.70	0.40	0.0825	0.0442	0.0450	0.0067
473	Inputs_Engineering, Row 15	ENGINEERING	4M1X	2.40	0.35	2.40	0.35	0.0400	0.0058	0.0400	0.0058
474	Inputs_Connect & Test, Row 14-25	CONNECT & TEST	4AXX	108.83	30.94	79.46	3.00	1.8139	0.5157	1.3244	0.0500
475	Inputs_Connect & Test, Row 42	CONNECT & TEST	4WXX	15.00	15.00	0.00	0.00	0.2500	0.2500	0.0000	0.0000
476	Inputs_Connect & Test, Row 46	CONNECT & TEST	431X	17.00	12.75	8.50	5.95	0.2833	0.2125	0.1417	0.0992
477	Inputs_Connect & Test, Row 31-38	CONNECT & TEST	411X	153.39	51.00	114.39	12.00	2.5565	0.8500	1.9065	0.2000
478	Inputs_Travel, Row 7	TRAVEL	411X	20.00	20.00	0.00	0.00	0.3333	0.3333	0.0000	0.0000
479											
480											

001245

	A	B	C	D	E	F	G	H	I	J	K
481	Tennessee										
482	Nonrecurring Worktimes										
483	Study Period: 2000-2002										
484											
485	**A.14.1198**	**TESTING**		**4-Wire Copper Loop - Long (w/o LMU)**							
486											
487	Location Life		52 Months	(=INPUTS_MISC!C11)							
488					**Worktimes (Min.)**				**Worktimes (Hrs.)**		
489	**Source**	**Description**	**JFC / JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**
490	Inputs_Connect & Test, Rows 20+22	CONNECT & TEST	4AXX	74.43	0.00	74.43	0.00	1.2406	0.0000	1.2406	0.0000
491	Inputs_Connect & Test, Row 46	CONNECT & TEST	431X	6.80	0.00	3.40	0.00	0.1133	0.0000	0.0567	0.0000
492	Inputs_Connect & Test, Rows 33+34+35+37	CONNECT & TEST	411X	67.66	0.00	67.66	0.00	1.1276	0.0000	1.1276	0.0000

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	A	B	C	D	E	F	G	H	I
1	**Tennessee**								
2	**Detailed Labor Worktimes**								
3	**Study Period: 2000-2002**								
4									
5	**Item/Description**					**Worktimes (Min.)**			
6	**LOCAL CARRIER SERVICE CENTER (LCSC)**	**Source**	**Description**	**JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**Probability (Fallout)**
7	LCSC receives request and issues service order.	Interconn Svcs.	SERVICE ORDER	230X	15.00	15.00	15.00	15.00	7%

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	A	B	C	D	E	F	G	H	I	J	K	L
1	**Tennessee**											
2	**Detailed Labor Worktimes**											
3	**Study Period: 2000-2002**											
4												
5	**Item/Description**				**Worktimes (Min.)**				**Probability (Fallout)**			
6	**Complex Resale Support Group (CRSG) Work Activities**	**Source**	**Description**	**JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**
7	CRSG/Acct Team receives LSR & SI	CRSG	SERVICE INQUIRY	SDWC	3.00	0.00	1.50	0.00	100%	0%	100%	0%
8	CRSG/Acct Team screens LSR & SI	CRSG	SERVICE INQUIRY	SDWC	3.00	0.00	1.50	0.00	100%	0%	100%	0%
9	CRSG contacts CLEC acknowledging receipt and begins tracking procedures	CRSG	SERVICE INQUIRY	SDWC	4.00	0.00	0.00	0.00	100%	0%	100%	0%
10	CRSG prepares SI transmittal to OSPE/SAC	CRSG	SERVICE INQUIRY	SDWC	5.00	0.00	2.00	0.00	100%	0%	100%	0%
11	CRSG receives SI response, prepares LCSC transmittal, confirms log; notifies CLEC; and closes out folder	CRSG	SERVICE INQUIRY	SDWC	10.00	0.00	5.00	0.00	100%	0%	100%	0%
12	**Order Complications:**									0%		0%
13	SI not processed within commitment	CRSG	SERVICE INQUIRY	SDWC	10.00	0.00	5.00	0.00	33%	0%	33%	0%
14	SI response requires negotation with CLEC/OSPE	CRSG	SERVICE INQUIRY		15.00	0.00	2.00	0.00	24%	0%	24%	0%
15	**Total Minutes (Worktimes * Probabilities)**				**31.90**	**0.00**	**12.13**	**0.00**				
16												
17	**Item/Description**				**Worktimes (Min.)**							
18	**LOCAL CARRIER SERVICE CENTER (LCSC)**	**Source**	**Description**	**JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**Probability (Fallout)**			
19	LCSC receives SI from CRSG validates for accuracy and sends Firm Order Commitment (FOC) to CLEC	Interconn Svcs.	SERVICE INQUIRY	230X	45.00	30.00	10.00	10.00	100%			

001249

	A	B	C	D	E	F	G	H	I	J	K	L
1	Tennessee											
2	Detailed Labor Worktimes											
3	Study Period: 2000-2002											
4												
5	Item/Description				Worktimes (Min.)							
6	SERVICE ADVOCACY CENTER (SAC)	Source	Description	JG / WS	First Install	First Disconnect	Addtl Install	Addtl Disconnect	Probability (Fallout)			
7	Clerical Input	Network	ENGINEERING	4FXX	15.00	0.00	0.00	0.00	10%			
8	OSPE Investigation	Network	ENGINEERING	JG57	30.00	0.00	30.00	0.00	10%			
9	Pull LMU	Network	ENGINEERING	JG57	22.00	0.00	22.00	0.00	10%			
10	LFACS input of LMU	Network	ENGINEERING	4FXX	10.00	0.00	10.00	0.00	10%			
11	LFACS reservation	Network	ENGINEERING	4FXX	10.00	0.00	10.00	0.00	10%			
12												
13	Item/Description				Worktimes (Min.)							
14	ADDRESS AND FACILITY INVENTORY (AFIG)	Source	Description	JG / WS	First Install	First Disconnect	Addtl Install	Addtl Disconnect	Probability (Fallout) - Install	Probability (Fallout) - Disc.		
15	Assigns loop facilities.	Network	ENGINEERING	4M1X	8.00	7.00	8.00	7.00	30%	5%		
16												
17	Item/Description				Worktimes (Min.)							
18	CIRCUIT PROVISIONING GROUP (CPG)	Source	Description	JG / WS	First Install	First Disconnect	Addtl Install	Addtl Disconnect	First Install	First Disconnect	Addtl Install	Addtl Disconnect
19	Processes request.	Network	ENGINEERING	4N4X	15.00	15.00	0.00	0.00	15%	15%	0%	0%
20	Designs circuit and generates DLR and WORD document for CLEC and Field.	Network	ENGINEERING	4N4X	18.00	4.00	18.00	4.00	15%	10%	15%	10%
21												
22												

001250

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Tennessee**												
2	**Detailed Labor Worktimes**												
3	**Study Period: 2000-2002**												
4													
5	**Item/Description**				**Worktimes (Min.)**								
6	**Unbundled Network Element Center (UNEC) Work Activities**	**Source**	**Description**	**JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**Probability**	**Reuse Rate**	**Reuse Rate**	**2W / 4W Multiplier**	
7	**Provisioning Variables**												
8	(1) Status/Info (55% of orders at 2.4 min.)	Interconn Svcs.	CONNECT & TEST	4AXX	2.40	2.40	2.40	0	55%				
9	(2) Escalations (12% of orders at 7.2 min.)	Interconn Svcs.	CONNECT & TEST	4AXX	7.20	7.20	7.20	0	12%				
10	(3) Assist Calls (6% of orders at 15.6 min.)	Interconn Svcs.	CONNECT & TEST	4AXX	15.60	15.60	15.60	0	6%				
11	(4) Jeopardy (25% of orders at 1.8 min.)	Interconn Svcs.	CONNECT & TEST	4AXX	1.80	1.80	1.80	0	25%				
12	**Total of Worktimes * Probabilities**				**3.57**	**3.57**	**3.57**	**0.00**					
13													
14	UNEC pulls order information and assigns to work groups.	Interconn Svcs.	CONNECT & TEST	4AXX	8.00	8.00	0.00	0.00	100%			1.00	
15	Provisioning variables - when UNEC pulls order information (Row 12)	Interconn Svcs.	CONNECT & TEST	4AXX	3.57	3.57	3.57	0.00	100%			1.00	
16	Verifies and ensures accuracy of order design	Interconn Svcs.	CONNECT & TEST	4AXX	5.00	5.00	3.00	3.00	100%			1.00	
17	Creates cut sheets to verify reuse of facilities	Interconn Svcs.	CONNECT & TEST	4AXX	4.00	0.00	4.00	0.00		80%	10%	1.00	
18	Ensures dispatch	Interconn Svcs.	CONNECT & TEST	4AXX	5.00	0.00	0.00	0.00	100%			1.00	
19	Performs frame continuity and due date coordination and testing	Interconn Svcs.	CONNECT & TEST	4AXX	53.60	0.00	53.60	0.00	85%			1.00	1.50
20	Performs frame continuity and due date coordination and testing	Interconn Svcs.	CONNECT & TEST	4AXX	54.00	0.00	54.00	0.00	85%			1.00	
21	Performs frame continuity and due date coordination and testing	Interconn Svcs.	CONNECT & TEST	4AXX	84.00	0.00	84.00	0.00	85%			1.00	1.50
22	Provisioning variables - testing (Row 12)	Interconn Svcs.	CONNECT & TEST	4AXX	3.57	0.00	3.57	0.00	85%			1.00	1.50
23	Performs manual order coordination (remote call forward, disconnect and unbundled loop order) when service is converted on existing facilities	Interconn Svcs.	CONNECT & TEST	4AXX	20.00	0.00	20.00	0.00		80%	10%	1.00	
24	UNEC contacts customer and completes order	Interconn Svcs.	CONNECT & TEST	4AXX	10.80	10.80	0.00	0.00	100%			1.00	
25	Provisioning Variables - when UNEC contacts customer and completes order (Row 12)	Interconn Svcs.	CONNECT & TEST	4AXX	3.57	3.57	0.00	0.00	100%			1.00	
26													

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	A	B	C	D	E	F	G	H	I	J	K	L	M
27	Item/Description				Worktimes (Min.)								
28	SPECIAL SERVICES INSTALLATION & MAINTENANCE (SSI&M) WORK ACTIVITIES	Source	Description	SSIM JG /WS	First Install	First Disconnect	Addtl Install	Addtl Disconnect	Probability	2W / 4W Multiplier			
29													
30													
31	Processes requests	Network	CONNECT & TEST	411X	20.00	20.00	0.00	0.00	100%	1.00	1.00		
32	Places/removes cross-connect at crossbox	Network	CONNECT & TEST	411X	16.00	8.00	16.00	8.00	100%	1.00	1.50		
33	Checks continuity and dial tone	Network	CONNECT & TEST	411X	15.00	0.00	15.00	0.00	100%	1.00	1.50		
34	Trouble resolution at crossbox	Network	CONNECT & TEST	411X	45.00	0.00	45.00	0.00	30%	1.00	1.50		
35	Tests from NID	Network	CONNECT & TEST	411X	20.00	0.00	20.00	0.00	100%	1.00	1.50		
36	Tags loop	Network	CONNECT & TEST	411X	3.00	0.00	3.00	0.00	100%	1.00	1.50		
37	Trouble resolution at premises	Network	CONNECT & TEST	411X	56.00	0.00	56.00	0.00	21%	1.00	1.50		
38	Completes order	Network	CONNECT & TEST	411X	19.00	19.00	0.00	0.00	100%	1.00	1.00		
39													
40	Item/Description				Worktimes (Min.)								
41	WORK MANAGEMENT CENTER (WMC)	Source	Description	JG / WS	First Install	First Disconnect	Addtl Install	Addtl Disconnect					
42	WMC coordinates dispatched technicians	Network	CONNECT & TEST	4WXX	15.00	15.00	0.00	0.00					
43													
44	Item/Description				Worktimes (Min.)								
45	CENTRAL OFFICE FORCES (CO)	Source	Description	JG / WS	First Install	First Disconnect	Addtl Install	Addtl Disconnect	15% Carried in Other Transport Elements				
46	CO Field wires circuit at collocation site.	Network	CONNECT & TEST	431X	20.00	15.00	10.00	7.00	85%				

	A	B	C	D	E	F	G	H	I
1	**Tennessee**								
2	**Detailed Labor Worktimes**								
3	**Study Period: 2000-2002**								
4	**Item/Description**				**Worktimes (Min.)**				
6	**SPECIAL SERVICES INSTALLATION & MAINTENANCE (SSI&M) WORK ACTIVITIES**	**Source**	**Description**	**SSIM JG /WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**Dispatch Rate**
7	Dispatched to crossbox	Network	TRAVEL	411X	20.00	20.00	0.00	0.00	100%

Tennessee
Miscellaneous Inputs
Study Period: 2000-2002

Input Description	Source	Amount	
Location Life - 2 wire	LocLife.xls, Line D22	46	**months**
Location Life - 4 wire	LocLife.xls, Line D19	52	**months**
Subscriber Line Testing	slt.xls, Line G13	$ 0.2061	
Network Termining Wire	ntw.xls, Line C31	$ 0.1301	

Connect / Test Percentages

JFC		
4AXX	**0%**	**100%**
410X/411X	**60%**	**40%**
410X/411X	**0%**	**100%**
431X	**60%**	**40%**
431X	**0%**	**100%**

When CO or I&M/SSIM worktimes cannot be determined to be solely testing, the assumption is made that 40% of the total worktime is for testing.

001254

Tennessee
Index Sheet
Study Period: 2000-2002

Element #: A.9.21

Sheet Name:	Description:
Index	SUB-LOOP FEEDER PER 4-WIRE DS1 - DIGITAL LOOP
Investments	CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA
Additives_Recurring	CALCULATOR INPUT FORM - RECURRING EXPENSES DATA
Additives_Nonrecurring	CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA
Recurring Labor	CALCULATOR INPUT FORM - RECURRING LABOR EXPENSES DATA
Nonrecurring Labor	CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES
Input Nonrecurring	SUB-LOOP - PER 4-WIRE DS1 DIGITAL LOOP / FEEDER ONLY
Input Recurring	RECURRING INPUTS
WP300	SUMMARY
WP321	DESIGN 2 - ELECTRONICS
WP322	DESIGN 2 - TRANSPORT
WP331	DESIGN 3 - ELECTRONICS
WP332	DESIGN 3 - TRANSPORT
WP351A	DESIGN 5 - C.O. & HUB - ELECTRONICS
WP351B	DESIGN 5 - CUSTOMER PREMISES - ELECTRONICS
WP352	DESIGN 5 - TRANSPORT

CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA

Instructions:

1. Use this worksheet to record material and/or investments to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.

State	Cost Element #	FRC	Sub FRC	Volume Sensitive $ Amount	Volume Insensitive $ Amount
TN	A.9.21	257C	03	$ 31.7502	
TN	A.9.21	257C	06	$ 230.6061	
TN	A.9.21	257C	09	$ 146.0350	
TN	A.9.21	257C	15	$ 8.7016	
TN	A.9.21	257C	19	$ 116.9891	
TN	A.9.21	257C	22	$ 741.5208	
TN	A.9.21	257C	25	$ 146.0350	
TN	A.9.21	257C	37	$ 8.4847	
TN	A.9.21	257C	40	$ 47.5403	
TN	A.9.21	257C	43	$ 32.8664	
TN	A.9.21	822C	00	$ 13.3741	
TN	A.9.21	845C	00	$ 3.6680	
TN	A.9.21	85C	00	$ 11.1733	
	END				

001256

CALCULATOR INPUT FORM - RECURRING EXPENSES DATA

Instructions:

1. **Use this worksheet to record recurring non-labor expenses to be input into the Calculator calculations.**
2. **All amounts shown are per unit (e.g., per call, per loop, per MOU).**
3. **Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.**
4. **All data on this form should be cell-referenced to study workpapers.**
5. **Do NOT change columns, headings, sheet name.**

State	Cost Element #	Recurring Expense Description (Limited to 25 characters)	Recurring Volume Sensitive $ Amount	Recurring Volume Insensitive $ Amount
TN				
	End			

Maximum 10 entries per Cost Element #

001257

CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA

Instructions:

1. Use this worksheet to record nonrecurring non-labor expenses to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.
6. Use column D when cost element has a single nonrecurring cost; use columns E & F for elements with a first and additional nonrecurring cost; use columns G & H for elements with an initial and subsequent nonrecurring cost.

State	Cost Element #	Nonrecurring Expense Description (Limited to 25 characters)	Nonrecurring $ Amount	Nonrecurring First $ Amount	Nonrecurring Additional $ Amount	Nonrecurring Initial $ Amount	Nonrecurring Subsequent $ Amount
TN							
	End						

Maximum 10 entries per Cost Element #

001258

CALCULATOR INPUT FORM - RECURRING LABOR EXPENSES DATA

Instructions:

1. **Use this worksheet to record recurring expensed labor times to be input into the Calculator calculations.**
2. **All amounts shown are per unit (e.g., per call, per loop, per MOU).**
3. **Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.**
4. **All data on this form should be cell-referenced to study workpapers.**
5. **Do NOT change columns, headings, sheet name.**

State	Cost Element #	Labor Expense Description (Limited to 25 characters)	JFC/ Payband	Work Time (Hours) Volume Sensitive	Work Time (Hours) Volume Insensitive
TN					
	End				

Maximum 20 entries per Cost Element #

001259

CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES

Instructions:

1. Use this worksheet to record nonrecurring labor times to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.
6. Use columns F & G when cost element has a single nonrecurring cost; use columns H, I, J, & K for elements with a first and additional nonrecurring cost; use columns L, M, N & O for elements with an initial and subsequent nonrecurring cost.
7. Input Cost Element Life (in months) on first row of data for each cost element. It is not necessary to repeat on each line.

Study Mid-Point Date (Mos.): 6/1/2001

State	Cost Element #	Cost Element Life (Mo)	Labor Expense Description (Limited to 25 characters)	JFC/ Payband	(For use w/ one NR) Installation Time (Hours)	(For use w/ one NR) Disconnect Time Hours	First Installation Time (Hours)	First Disconnect Time Hours	Additional Installation Time (Hours)	Additional Disconnect Time Hours	Initial Installation Time (Hours)	Initial Disconnect Time Hours	Subsequent Installation Time (Hours)	Subsequent Disconnect Time Hours
TN	A.9.21	52	SERVICE ORDER	230X			0.0175	0.0000	0.0175	0.0000				
TN	A.9.21	52	ENGINEERING	4N4X			0.0825	0.0000	0.0450	0.0000				
TN	A.9.21	52	ENGINEERING	JG57			0.0004	0.0000	0.0004	0.0000				
TN	A.9.21	52	ENGINEERING	WS16			0.0046	0.0000	0.0046	0.0000				
TN	A.9.21	52	ENGINEERING	4M1X			0.1333	0.0000	0.1333	0.0000				
TN	A.9.21	52	ENGINEERING	JG57			0.0750	0.0000	0.0750	0.0000				
TN	A.9.21	52	ENGINEERING	4FXX			0.0250	0.0000	0.0250	0.0000				
TN	A.9.21	52	CONNECT	4AXX			0.6057	0.0000	0.1495	0.0000				
TN	A.9.21	52	CONNECT	4WXX			0.2500	0.0000	0.0000	0.0000				
TN	A.9.21	52	CONNECT	431X			0.1700	0.0000	0.0850	0.0000				
TN	A.9.21	52	CONNECT	411X			1.1031	0.0000	0.4531	0.0000				
TN	A.9.21	52	TRAVEL	411X			0.3333	0.0000	0.0000	0.0000				
TN	A.9.2198	52	TEST	4AXX			1.2149	0.0000	1.2149	0.0000				
TN	A.9.2198	52	TEST	411X			0.3409	0.0000	0.3409	0.0000				
TN	A.9.2198	52	TEST	431X			0.1133	0.0000	0.0567	0.0000				
TN	A.9.2199	52	SERVICE ORDER	230X			0.0000	0.0175	0.0000	0.0175				
TN	A.9.2199	52	ENGINEERING	4N4X			0.0000	0.0442	0.0000	0.0067				
TN	A.9.2199	52	ENGINEERING	4M1X			0.0000	0.1333	0.0000	0.1333				
TN	A.9.2199	52	CONNECT	4AXX			0.0000	0.4823	0.0000	0.0500				
TN	A.9.2199	52	CONNECT	4WXX			0.0000	0.2500	0.0000	0.0000				
TN	A.9.2199	52	CONNECT	431X			0.0000	0.1275	0.0000	0.0595				
TN	A.9.2199	52	CONNECT	411X			0.0000	0.7833	0.0000	0.1333				
TN	A.9.2199	52	TRAVEL	411X			0.0000	0.3333	0.0000	0.0000				
	END													

Maximum of 25 entries per Cost Element #

001260

	A	B	C	D	E	F	G	H	I	J	K
1	Tennessee										
2	Nonrecurring Worktimes										
3	Study Period: 2000-2002										
4											
5											
6	**A.9.21**	**Sub-Loop - Per 4-Wire DS1 Digital Loop / Feeder Only**									
7	Location Life		52	Months	LocLife.XLS						
8											
					Worktimes (Min.)				**Worktimes (Hrs.)**		
9	**Source**	**Description**	**JFC / JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**
10	TN-USL,INPUTS_SERVICE ORDER, Rows 7	SERVICE ORDER	230X	1.05	1.05	1.05	1.05	0.0175	0.0175	0.0175	0.0175
11	TN-USL,INPUTS_ENGINEERING, Rows 23+24	ENGINEERING	4N4X	4.95	2.65	2.70	0.40	0.0825	0.0442	0.0450	0.0067
12	TN-USL,INPUTS_ENGINEERING, Row =29*28	ENGINEERING	JG57	0.03	0.00	0.03	0.00	0.0004	0.0000	0.0004	0.0000
13	TN-USL,INPUTS_ENGINEERING, Rows 30+31*28	ENGINEERING	WS16	0.28	0.00	0.28	0.00	0.0046	0.0000	0.0046	0.0000
14	TN-USL,INPUTS_ENGINEERING, Row 18	ENGINEERING	4M1X	8.00	8.00	8.00	8.00	0.1333	0.1333	0.1333	0.1333
15	TN-USL,INPUTS_ENGINEERING, Row 7	ENGINEERING	JG57	4.50	0.00	4.50	0.00	0.0750	0.0000	0.0750	0.0000
16	TN-USL,INPUTS_ENGINEERING, Row 8	ENGINEERING	4FXX	1.50	0.00	1.50	0.00	0.0250	0.0000	0.0250	0.0000
17	TN-USL,IRows 14-23	CONNECT	4AXX	36.34	28.94	8.97	3.00	0.6057	0.4823	0.1495	0.0500
18	TN-USL,INPUTS_CONNECT&TEST, Row 50	CONNECT	4WXX	15.00	15.00	0.00	0.00	0.2500	0.2500	0.0000	0.0000
19	TN-USL,INPUTS_CONNECT&TEST, Row 54	CONNECT	431X	10.20	7.65	5.10	3.57	0.1700	0.1275	0.0850	0.0595
20	TN-USL,INPUTS_CONNECT&TEST, Rows 29+30+31+32+34+38	CONNECT	411X	66.18	47.00	27.18	8.00	1.1031	0.7833	0.4531	0.1333
21	TN-USL,INPUTS_TRAVEL, Row 7	TRAVEL	411X	20.00	20.00	0.00	0.00	0.3333	0.3333	0.0000	0.0000
22	TN-USL,INPUTS_CONNECT&TEST, Rows 19+20	TEST	4AXX	72.89	0.00	72.89	0.00	1.2149	0.0000	1.2149	0.0000
23	TN-USL,INPUTS_CONNECT&TEST, Row 30+32+34	TEST	411X	20.46	0.00	20.46	0.00	0.3409	0.0000	0.3409	0.0000
24	TN-USL,INPUTS_CONNECT&TEST, Row 54	TEST	431X	6.80	0.00	3.40	0.00	0.1133	0.0000	0.0567	0.0000

001261

	A	B	C	D	E
1	Tennessee				
2	RECURRING INPUTS				
3	Study Period: 2000-2002				
4					
5	Element #: A.9.21				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	Battery Back-up - OC- 3 (CP)	257C	19	SONET Price Calculator	$ 30.9814
9	Battery Back-up - OC- 3 (CP)	257C	22	SONET Price Calculator	$ 23.3449
10	C.O. Interface DS1 on OC- 3 - Mux & Protect	257C	06	SONET Price Calculator	$ 66.3749
11	C.O. Interface DS1 on OC- 3 - Working	257C	03	SONET Price Calculator	$ 17.4294
12	C.O. Interface DS1 on OC- 3 - Working	257C	09	SONET Price Calculator	$ 148.4500
13	C.O. Interface DS1 on OC- 3+ - Mux & Protect	257C	06	SONET Price Calculator	$ 60.9742
14	C.O. Interface DS1 on OC- 3+ - Working	257C	03	SONET Price Calculator	$ 17.4294
15	C.O. Interface DS1 on OC- 3+ - Working	257C	09	SONET Price Calculator	$ 137.9500
16	C.O. Interface DS1 on OC-12 - Mux & Protect	257C	03	SONET Price Calculator	$ 8.3929
17	C.O. Interface DS1 on OC-12 - Mux & Protect	257C	06	SONET Price Calculator	$ 255.6019
18	C.O. Interface DS1 on OC-12 - Working	257C	03	SONET Price Calculator	$ 17.4294
19	C.O. Interface DS1 on OC-12 - Working	257C	09	SONET Price Calculator	$ 148.4500
20	C.O. Node - OC- 3	257C	03	SONET Price Calculator	$ 12.5726
21	C.O. Node - OC- 3	257C	06	SONET Price Calculator	$ 122.1690
22	C.O. Node - OC- 3+	257C	03	SONET Price Calculator	$ 17.5424
23	C.O. Node - OC- 3+	257C	06	SONET Price Calculator	$ 158.8631
24	C.O. Node - OC-12	257C	03	SONET Price Calculator	$ 6.8107
25	C.O. Node - OC-12	257C	06	SONET Price Calculator	$ 84.5278
26	C.P. Interface DS1 on OC- 3 - Mux & Protect	257C	22	SONET Price Calculator	$ 66.3749
27	C.P. Interface DS1 on OC- 3 - Working	257C	19	SONET Price Calculator	$ 17.4294
28	C.P. Interface DS1 on OC- 3 - Working	257C	25	SONET Price Calculator	$ 148.4500
29	C.P. Interface DS1 on OC- 3+ - Mux & Protect	257C	22	SONET Price Calculator	$ 60.9742
30	C.P. Interface DS1 on OC- 3+ - Working	257C	19	SONET Price Calculator	$ 17.4294
31	C.P. Interface DS1 on OC- 3+ - Working	257C	25	SONET Price Calculator	$ 137.9500
32	C.P. Interface DS1 on OC-12 - Mux & Protect	257C	19	SONET Price Calculator	$ 8.3929
33	C.P. Interface DS1 on OC-12 - Mux & Protect	257C	22	SONET Price Calculator	$ 255.6019
34	C.P. Interface DS1 on OC-12 - Working	257C	19	SONET Price Calculator	$ 17.4294
35	C.P. Interface DS1 on OC-12 - Working	257C	25	SONET Price Calculator	$ 148.4500
36	C.P. Node - OC- 3	257C	19	SONET Price Calculator	$ 12.5726
37	C.P. Node - OC- 3	257C	22	SONET Price Calculator	$ 122.1690
38	C.P. Node - OC- 3+	257C	19	SONET Price Calculator	$ 17.5424
39	C.P. Node - OC- 3+	257C	22	SONET Price Calculator	$ 158.8631
40	C.P. Node - OC-12	257C	19	SONET Price Calculator	$ 6.8107
41	C.P. Node - OC-12	257C	22	SONET Price Calculator	$ 84.5278
42	Data Communications - OC- 3	257C	15	SONET Price Calculator	$ 12.7904
43	Data Communications - OC-12	257C	15	SONET Price Calculator	$ 3.9018
44	Hub Interface DS1 on OC- 3 - Mux & Protect	257C	40	SONET Price Calculator	$ 66.3749
45	Hub Interface DS1 on OC- 3 - Working	257C	37	SONET Price Calculator	$ 17.4294
46	Hub Interface DS1 on OC- 3 - Working	257C	43	SONET Price Calculator	$ 148.4500
47	Hub Interface STS-1 on OC- 3	257C	37	SONET Price Calculator	$ 8.7533
48	Hub Interface STS-1 on OC- 3	257C	43	SONET Price Calculator	$ 85.8537
49	Hub Interface STS-1 on OC-12	257C	37	SONET Price Calculator	$ 8.7533
50	Hub Interface STS-1 on OC-12	257C	43	SONET Price Calculator	$ 57.0437
51	Hub Node - OC- 3	257C	37	SONET Price Calculator	$ 12.5726
52	Hub Node - OC- 3	257C	40	SONET Price Calculator	$ 122.1690
53	Hub Node - OC-12	257C	37	SONET Price Calculator	$ 6.8107
54	Hub Node - OC-12	257C	40	SONET Price Calculator	$ 84.5278
55					
56					
57	Aerial Fiber - Per Wgtd Fiber Mile - OC- 3	822C	00	SONET Price Calculator	$ 1.0323

001262

	A	B	C	D	E
1	Tennessee				
2	RECURRING INPUTS				
3	Study Period: 2000-2002				
4					
5	Element #: A.9.21				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
58	Aerial Fiber - Per Wgtd Fiber Mile - OC-12	822C	00	SONET Price Calculator	$ 0.3149
59	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	845C	00	SONET Price Calculator	$ 0.2831
60	Buried Fiber - Per Wgtd Fiber Mile - OC-12	845C	00	SONET Price Calculator	$ 0.0864
61	UG Fiber - Per Wgtd Fiber Mile - OC- 3	85C	00	SONET Price Calculator	$ 0.8625
62	UG Fiber - Per Wgtd Fiber Mile - OC-12	85C	00	SONET Price Calculator	$ 0.2631
63					
64					
65					
66					
67					
68					
69					
70					
71					
72					
73					
74					
75					
76					
77					
78					
79					
80					
81					
82					
83					
84					
85					
86	Route to Air Ratio (RTA)			TIRKS Data Base	1.34
87	Copper Utilization			Network	0.651
88	State Average Air 1/2 miles			CRIS Data Base	2.7
89	Ratio Of Circumference To The Diameter			PI	3.14
90	Of A Circle				
91	Number of Strands per Ring			Network	3
92					
93	Design 2 Probability of Occurrence			Network	54%
94	Design 3 Probability of Occurrence			Network	23%
95					
96	Design 5 Probability of Occurrence			Network	23%
97					100%
98					
99	Probability of CO to Hub - Design 4 & 5			Network	50%
100	Probability of Hub to CP - Design 4 & 5			Network	50%
101					100%

Tennessee
SUMMARY
Study Period: 2000-2002

Element #: A.9.21

ELECTRONICS INVESTMENT

FRC	257C	257C	257C	257C	257C	257C	257C	257C	257C	257C	
Sub FRC	03	06	09	15	19	22	25	37	40	43	Source
Design 2	$ 16.2011	$ 101.8137	$ 80.1630	$ 6.9068	$ 60.0878	$ 378.3050	$ 80.1630				WP 321, Lines 59 thru 65
Design 3	$ 8.0435	$ 50.5626	$ 31.7285	$ 0.8974	$ 31.3083	$ 202.0859	$ 31.7285				WP 331, Lines 59 thru 65
Design 5	$ 7.5056	$ 78.2298	$ 34.1435	$ 0.8974				$ 8.4847	$ 47.5403	$ 32.8664	WP 351A, Lines 51 thru 57
Design 5					$ 25.5930	$ 161.1299	$ 34.1435				WP 351B, Lines 40 thru 42
TOTAL	$ 31.7502	$ 230.6061	$ 146.0350	$ 8.7016	$ 116.9891	$ 741.5208	$ 146.0350	$ 8.4847	$ 47.5403	$ 32.8664	

TRANSPORT INVESTMENT

FRC	822C	845C	85C	
Sub FRC	00	00	00	
Design 2	$ 9.4996	$ 2.6054	$ 7.9363	WP 322, Lines 41 thru 43
Design 3	$ 1.2343	$ 0.3385	$ 1.0312	WP 332, Lines 41 thru 43
Design 5	$ 2.6402	$ 0.7241	$ 2.2057	WP 352, Lines 60 thru 62
TOTAL	$ 13.3741	$ 3.6680	$ 11.1733	

001264

	A	B	C	D	E
1	Tennessee				
2	DESIGN 2 - ELECTRONICS				
3	Study Period: 2000-2002				
4					
5	Element #: A.9.21				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**CENTRAL OFFICE**				
9					
10	C.O. Interface DS1 on OC- 3 - Working	257C	03	Input Sheet Line 11	$ 17.4294
11	C.O. Interface DS1 on OC- 3 - Working	257C	09	Input Sheet Line 12	$ 148.4500
12					
13	C.O. Interface DS1 on OC- 3 - Mux & Protect	257C	06	Input Sheet Line 10	$ 66.3749
14					
15	C.O. Node - OC- 3	257C	03	Input Sheet Line 20	$ 12.5726
16	C.O. Node - OC- 3	257C	06	Input Sheet Line 21	$ 122.1690
17					
18	Data Communications - OC- 3	257C	15	Input Sheet Line 42	$ 12.7904
19	TOTAL			Sum Lines 10 thru 18	$ 379.7862
20					
21	**POINT OF TERMINATION (RT)**				
22					
23	C.P. Interface DS1 on OC- 3 - Working	257C	19	Input Sheet Line 27	$ 17.4294
24	C.P. Interface DS1 on OC- 3 - Working	257C	25	Input Sheet Line 28	$ 148.4500
25					
26	C.P. Interface DS1 on OC- 3 - Mux & Protect	257C	22	Input Sheet Line 26	$ 66.3749
27					
28	Battery Back-up - OC- 3 (CP)	257C	19	Input Sheet Line 8	$ 30.9814
29	Battery Back-up - OC- 3 (CP)	257C	22	Input Sheet Line 9	$ 23.3449
30					
31	C.P. Node - OC- 3	257C	19	Input Sheet Line 36	$ 12.5726
32	5 NODES	257C	19	Line 31 * 5	$ 62.8630
33					
34	C.P. Node - OC- 3	257C	22	Input Sheet Line 37	$ 122.1690
35	5 NODES	257C	22	Line 34 * 5	$ 610.8449
36					
37					
38					
39					
40	TOTAL			Sum Lines 23, 24, 26, 28, 29, 32, 35	$ 960.2885
41					
42					
43	**SUMMARY BY FRC**				
44					
45	Digtl Circ C.O. - Hardwired	257C	03	Sum Lines 10, 15	$ 30.0020
46	Digtl Circ C.O. - Com. Plug-in	257C	06	Sum Lines 13, 16	$ 188.5438
47	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 11	$ 148.4500
48	Digtl Circ C.O. - Combined	257C	15	Line 18	$ 12.7904
49	Digtl Circ Prem - Hardwired	257C	19	Sum Lines 23, 28, 32	$ 111.2738
50	Digtl Circ Prem - Com. Plug-in	257C	22	Sum Lines 26, 29, 35	$ 700.5648
51	Digtl Circ Prem - Def. Plug-in	257C	25	Line 24	$ 148.4500
52					
53	TOTAL			Sum Lines 45 Thru 51	$ 1,340.0747
54					
55	Design 2 Probability of Occurrence			Input Sheet Line 93	54%
56					
57	**SUMMARY BY FRC - WEIGHTED**				
58					
59	Digtl Circ C.O. - Hardwired	257C	03	Line 55 * Line 45	$ 16.2011
60	Digtl Circ C.O. - Com. Plug-in	257C	06	Line 55 * Line 46	$ 101.8137
61	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 55 * Line 47	$ 80.1630
62	Digtl Circ C.O. - Combined	257C	15	Line 55 * Line 48	$ 6.9068
63	Digtl Circ Prem - Hardwired	257C	19	Line 55 * Line 49	$ 60.0878
64	Digtl Circ Prem - Com. Plug-in	257C	22	Line 56 * Line 50	$ 378.3050
65	Digtl Circ Prem - Def. Plug-in	257C	25	Line 57 * Line 51	$ 80.1630
66					
67	TOTAL			Sum Lines 59 Thru 65	$ 723.6404

	A	B	C	D	E
1	Tennessee				
2	DESIGN 2 - TRANSPORT				
3	Study Period: 2000-2002				
4					
5	Element #: A.9.21				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**MATERIAL PER MILE PER STRAND (ROUTE)**				
9					
10	Aerial Fiber - Per Wgtd Fiber Mile - OC- 3	822C	00	Input Sheet Line 57	$ 1.0323
11	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	845C	00	Input Sheet Line 59	$ 0.2831
12	UG Fiber - Per Wgtd Fiber Mile - OC- 3	85C	00	Input Sheet Line 61	$ 0.8625
13					
14	**MATERIAL PER 1/2 MILE PER STRAND (ROUTE)**				
15					
16	Aerial Fiber - Per Wgtd Fiber Mile - OC- 3	822C	00	Line 10 / 2	$ 0.5162
17	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	845C	00	Line 11 / 2	$ 0.1416
18	UG Fiber - Per Wgtd Fiber Mile - OC- 3	85C	00	Line 12 / 2	$ 0.4312
19					
20	Number of Strands per Ring			Input Sheet Line 91	3
21					
22	Route to Air Ratio (RTA)			Input Sheet Line 86	1.34
23					
24	**WEIGHTED MATERIAL PER 1/2 MILE (AIR)**				
25					
26	Aerial Fiber - Per Wgtd Fiber Mile - OC- 3	822C	00	Line 16 * Line 20 * Line 22	$ 2.0750
27	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	845C	00	Line 17 * Line 20 * Line 22	$ 0.5691
28	UG Fiber - Per Wgtd Fiber Mile - OC- 3	85C	00	Line 18 * Line 20 * Line 22	$ 1.7335
29					
30	Design 2 Probability of Occurrence			Input Sheet Line 93	54%
31					
32	State Average Air 1/2 miles			Input Sheet Line 88	2.7
33					
34	Ratio Of Circumference To The Diameter			Input Sheet Line 89	3.14
35	Of A Circle				
36					
37	STATE AVERAGE AIR 1/2 MILES - FIBER RING			Line 32 * Line 34	8.478
38					
39	**TOTAL DESIGN 2 TANSPORT MATERIAL - WEIGHTED**				
40					
41	Aerial Fiber - Per Wgtd Fiber Mile - OC- 3	822C	00	Line 26 * Line 30 * Line 37	$ 9.4996
42	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	845C	00	Line 27 * Line 30 * Line 37	$ 2.6054
43	UG Fiber - Per Wgtd Fiber Mile - OC- 3	85C	00	Line 28 * Line 30 * Line 37	$ 7.9363

	A	B	C	D	E
1	Tennessee				
2	DESIGN 3 - ELECTRONICS				
3	Study Period: 2000-2002				
4					
5	Element #: A.9.21				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**CENTRAL OFFICE**				
9					
10	C.O. Interface DS1 on OC- 3+ - Working	257C	03	Input Sheet Line 14	$ 17.4294
11	C.O. Interface DS1 on OC- 3+ - Working	257C	09	Input Sheet Line 15	$ 137.9500
12					
13	C.O. Interface DS1 on OC- 3+ - Mux & Protect	257C	06	Input Sheet Line 13	$ 60.9742
14					
15	C.O. Node - OC- 3+	257C	03	Input Sheet Line 22	$ 17.5424
16	C.O. Node - OC- 3+	257C	06	Input Sheet Line 23	$ 158.8631
17					
18	Data Communications - OC-12	257C	15	Input Sheet Line 43	$ 3.9018
19	TOTAL			Sum Lines 10 thru 18	$ 396.6609
20					
21	**POINT OF TERMINATION (RT)**				
22					
23	C.P. Interface DS1 on OC- 3+ - Working	257C	19	Input Sheet Line 30	$ 17.4294
24	C.P. Interface DS1 on OC- 3+ - Working	257C	25	Input Sheet Line 31	$ 137.9500
25					
26	C.P. Interface DS1 on OC- 3+ - Mux & Protect	257C	22	Input Sheet Line 29	$ 60.9742
27					
28	Battery Back-up - OC- 3 (CP)	257C	19	Input Sheet Line 8	$ 30.9814
29	Battery Back-up - OC- 3 (CP)	257C	22	Input Sheet Line 9	$ 23.3449
30					
31	C.P. Node - OC- 3+	257C	19	Input Sheet Line 38	$ 17.5424
32	5 NODES	257C	19	Line 31 * 5	$ 87.7122
33					
34	C.P. Node - OC- 3+	257C	22	Input Sheet Line 39	$ 158.8631
35	5 NODES	257C	22	Line 34 * 5	$ 794.3153
36					
37					
38					
39					
40	TOTAL			Sum Lines 23, 24, 26, 28, 29, 32, 35	$ 1,152.7074
41					
42					
43	**SUMMARY BY FRC**				
44					
45	Digtl Circ C.O. - Hardwired	257C	03	Sum Lines 10, 15	$ 34.9718
46	Digtl Circ C.O. - Com. Plug-in	257C	06	Sum Lines 13, 16	$ 219.8372
47	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 11	$ 137.9500
48	Digtl Circ C.O. - Combined	257C	15	Line 18	$ 3.9018
49	Digtl Circ Prem - Hardwired	257C	19	Sum Lines 23, 28, 32	$ 136.1230
50	Digtl Circ Prem - Com. Plug-in	257C	22	Sum Lines 26, 29, 35	$ 878.6344
51	Digtl Circ Prem - Def. Plug-in	257C	25	Line 24	$ 137.9500
52					
53	TOTAL			Sum Lines 45 Thru 51	$ 1,549.3683
54					
55	Design 3 Probability of Occurrence			Input Sheet Line 94	23%
56					
57	**SUMMARY BY FRC - WEIGHTED**				
58					
59	Digtl Circ C.O. - Hardwired	257C	03	Line 55 * Line 45	$ 8.0435
60	Digtl Circ C.O. - Com. Plug-in	257C	06	Line 55 * Line 46	$ 50.5626
61	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 55 * Line 47	$ 31.7285
62	Digtl Circ C.O. - Combined	257C	15	Line 55 * Line 48	$ 0.8974
63	Digtl Circ Prem - Hardwired	257C	19	Line 55 * Line 49	$ 31.3083
64	Digtl Circ Prem - Com. Plug-in	257C	22	Line 55 * Line 50	$ 202.0859
65	Digtl Circ Prem - Def. Plug-in	257C	25	Line 55 * Line 51	$ 31.7285
66					
67	TOTAL			Sum Lines 59 Thru 65	$ 356.3547

	A	B	C	D	E
1	Tennessee				
2	DESIGN 3 - TRANSPORT				
3	Study Period: 2000-2002				
4					
5	Element #: A.9.21				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**MATERIAL PER MILE PER STRAND (ROUTE)**				
9					
10	Aerial Fiber - Per Wgtd Fiber Mile - OC-12	822C	00	Input Sheet Line 58	$ 0.3149
11	Buried Fiber - Per Wgtd Fiber Mile - OC-12	845C	00	Input Sheet Line 60	$ 0.0864
12	UG Fiber - Per Wgtd Fiber Mile - OC-12	85C	00	Input Sheet Line 62	$ 0.2631
13					
14	**MATERIAL PER 1/2 MILE PER STRAND (ROUTE)**				
15					
16	Aerial Fiber - Per Wgtd Fiber Mile - OC-12	822C	00	Line 10 / 2	$ 0.1575
17	Buried Fiber - Per Wgtd Fiber Mile - OC-12	845C	00	Line 11 / 2	$ 0.0432
18	UG Fiber - Per Wgtd Fiber Mile - OC-12	85C	00	Line 12 / 2	$ 0.1316
19					
20	Number of Strands per Ring			Input Sheet Line 91	3
21					
22	Route to Air Ratio (RTA)			Input Sheet Line 86	1.34
23					
24	**WEIGHTED MATERIAL PER 1/2 MILE (AIR)**				
25					
26	Aerial Fiber - Per Wgtd Fiber Mile - OC-12	822C	00	Line 16 * Line 20 * Line 22	$ 0.6330
27	Buried Fiber - Per Wgtd Fiber Mile - OC-12	845C	00	Line 17 * Line 20 * Line 22	$ 0.1736
28	UG Fiber - Per Wgtd Fiber Mile - OC-12	85C	00	Line 18 * Line 20 * Line 22	$ 0.5288
29					
30	Design 3 Probability of Occurrence			Input Sheet Line 94	23%
31					
32	State Average Air 1/2 miles			Input Sheet Line 88	2.7
33					
34	Ratio Of Circumference To The Diameter			Input Sheet Line 89	3.14
35	Of A Circle				
36					
37	STATE AVERAGE AIR 1/2 MILES - FIBER RING			Line 32 * Line 34	8.478
38					
39	**TOTAL DESIGN 2 TANSPORT MATERIAL - WEIGHTED**				
40					
41	Aerial Fiber - Per Wgtd Fiber Mile - OC-12	822C	00	Line 26 * Line 30 * Line 37	$ 1.2343
42	Buried Fiber - Per Wgtd Fiber Mile - OC-12	845C	00	Line 27 * Line 30 * Line 37	$ 0.3385
43	UG Fiber - Per Wgtd Fiber Mile - OC-12	85C	00	Line 28 * Line 30 * Line 37	$ 1.0312

	A	B	C	D	E
1	Tennessee				
2	DESIGN 5 - C.O. & HUB - ELECTRONICS				
3	Study Period: 2000-2002				
4					
5	Element #: A.9.21				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**CENTRAL OFFICE**				
9	C.O. Interface DS1 on OC-12 - Working	257C	03	Input Sheet Line 18	$ 17.4294
10	C.O. Interface DS1 on OC-12 - Working	257C	09	Input Sheet Line 19	$ 148.4500
11					
12	C.O. Interface DS1 on OC-12 - Mux & Protect	257C	03	Input Sheet Line 16	$ 8.3929
13	C.O. Interface DS1 on OC-12 - Mux & Protect	257C	06	Input Sheet Line 17	$ 255.6019
14					
15	C.O. Node - OC-12	257C	03	Input Sheet Line 24	$ 6.8107
16	C.O. Node - OC-12	257C	06	Input Sheet Line 25	$ 84.5278
17					
18	Data Communications - OC-12	257C	15	Input Sheet Line 43	$ 3.9018
19	TOTAL			Sum Lines 9 thru 18	$ 525.1145
20					
21					
22	**FIBER HUB**				
23	Hub Node - OC-12	257C	37	Input Sheet Line 53	$ 6.8107
24	Hub Node - OC-12	257C	40	Input Sheet Line 54	$ 84.5278
25					
26	Hub Interface STS-1 on OC-12	257C	37	Input Sheet Line 49	$ 8.7533
27	Hub Interface STS-1 on OC-12	257C	43	Input Sheet Line 50	$ 57.0437
28					
29	Hub Interface STS-1 on OC- 3	257C	37	Input Sheet Line 47	$ 8.7533
30	Hub Interface STS-1 on OC- 3	257C	43	Input Sheet Line 48	$ 85.8537
31					
32	Hub Node - OC- 3	257C	37	Input Sheet Line 51	$ 12.5726
33	Hub Node - OC- 3	257C	40	Input Sheet Line 52	$ 122.1690
34	TOTAL			Sum Lines 23 thru 33	$ 386.4840
35					
36					
37	**SUMMARY BY FRC**				
38					
39	Digtl Circ C.O. - Hardwired	257C	03	Sum Lines 9, 12, 15	$ 32.6330
40	Digtl Circ C.O. - Com. Plug-in	257C	06	Sum Lines 13, 16	$ 340.1297
41	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 10	$ 148.4500
42	Digtl Circ C.O. - Combined	257C	15	Line 18	$ 3.9018
43	Digtl Circ Remote - Com. Hardwired	257C	37	Sum Lines 23, 26, 29, 32	$ 36.8899
44	Digtl Circ Remote - Com. Plug-in	257C	40	Sum Lines 24, 33	$ 206.6968
45	Digtl Circ Remote - Def. Plug-in	257C	43	Sum Lines 27, 30	$ 142.8973
46	TOTAL			Sum Lines 39 thru 45	$ 911.5985
47					
48	**SUMMARY BY FRC - WEIGHTED**				
49	Design 5 Probability of Occurrence			Input Sheet Line 96	23%
50					
51	Digtl Circ C.O. - Hardwired	257C	03	Line 49 * Line 39	$ 7.5056
52	Digtl Circ C.O. - Com. Plug-in	257C	06	Line 49 * Line 40	$ 78.2298
53	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 49 * Line 41	$ 34.1435
54	Digtl Circ C.O. - Combined	257C	15	Line 49 * Line 42	$ 0.8974
55	Digtl Circ Remote - Com. Hardwired	257C	37	Line 49 * Line 43	$ 8.4847
56	Digtl Circ Remote - Com. Plug-in	257C	40	Line 49 * Line 44	$ 47.5403
57	Digtl Circ Remote - Def. Plug-in	257C	43	Line 49 * Line 45	$ 32.8664
58	TOTAL			Sum Lines 51 thru 57	$ 209.8977

	A	B	C	D	E
1	Tennessee				
2	DESIGN 5 - CUSTOMER PREMISES - ELECTRONICS				
3	Study Period: 2000-2002				
4					
5	Element #: A.9.21				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**POINT OF TERMINATION (RT)**				
9	C.P. Node - OC- 3	257C	19	Input Sheet Line 36	$ 12.5726
10	5 NODES	257C	19	Line 9 * 5	$ 62.8630
11					
12	C.P. Node - OC- 3	257C	22	Input Sheet Line 37	$ 122.1690
13	5 NODES	257C	22	Line 12 * 5	$ 610.8449
14					
15	C.P. Interface DS1 on OC- 3 - Working	257C	19	Input Sheet Line 27	$ 17.4294
16	C.P. Interface DS1 on OC- 3 - Working	257C	25	Input Sheet Line 28	$ 148.4500
17					
18	C.P. Interface DS1 on OC- 3 - Mux & Protect	257C	22	Input Sheet Line 26	$ 66.3749
19					
20	Battery Back-up - OC- 3 (CP)	257C	19	Input Sheet Line 8	$ 30.9814
21	Battery Back-up - OC- 3 (CP)	257C	22	Input Sheet Line 9	$ 23.3449
22					
23					
24					
25					
26	TOTAL			Sum Lines 10, 13 thru 21	$ 960.2885
27					
28	**SUMMARY BY FRC**				
29					
30	Digtl Circ C.O. - Def. Plug-in	257C	19	Sum Lines 10, 15, 20	$ 111.2738
31	Digtl Circ Prem - Com. Plug-in	257C	22	Sum Lines 13, 18. 21	$ 700.5648
32	Digtl Circ Prem - Def. Plug-in	257C	25	Line 16	$ 148.4500
33					
34	TOTAL			Sum Lines 30 thru 32	$ 960.2885
35					
36	Design 5 Probability of Occurrence			Input Sheet Line 96	23%
37					
38	**SUMMARY BY FRC - WEIGHTED**				
39					
40	Digtl Circ C.O. - Def. Plug-in	257C	19	Line 36 * Line 30	$ 25.5930
41	Digtl Circ Prem - Com. Plug-in	257C	22	Line 36 * Line 31	$ 161.1299
42	Digtl Circ Prem - Def. Plug-in	257C	25	Line 36 * Line 32	$ 34.1435
43					
44	TOTAL			Sum Lines 40 thru 42	$ 220.8664

	A	B	C	D	E
1	Tennessee				
2	DESIGN 5 - TRANSPORT				
3	Study Period: 2000-2002				
4					
5	Element #: A.9.21				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**CENTRAL OFFICE TO FIBER HUB OC-12**				
9	Aerial Fiber - Per Wgtd Fiber Mile - OC-12	822C	00	Input Sheet Line 58	$ 0.3149
10	Buried Fiber - Per Wgtd Fiber Mile - OC-12	845C	00	Input Sheet Line 60	$ 0.0864
11	UG Fiber - Per Wgtd Fiber Mile - OC-12	85C	00	Input Sheet Line 62	$ 0.2631
12					
13	Number of Strands per Ring			Input Sheet Line 91	3
14	Route to Air Ratio (RTA)			Input Sheet Line 86	1.34
15					
16	TOTAL CO TO HUB OC-12 AIR MILES				
17	Aerial Fiber - OC-12	822C	00	Line 9 * Line 13 * Line 14 * 1/2	$ 0.6330
18	Buried Fiber - OC-12	845C	00	Line 10 * Line 13 * Line 14 * 1/2	$ 0.1736
19	UG Fiber - OC-12	85C	00	Line 11 * Line 13 * Line 14 * 1/2	$ 0.5288
20					
21	Probability of CO to Hub - Design 5			Input Sheet Line 99	50%
22					
23	WEIGHTED TOTAL CO TO HUB OC-12 AIR MILES				
24	Aerial Fiber - OC-12	822C	00	Line 17 * Line 21	$ 0.3165
25	Buried Fiber - OC-12	845C	00	Line 18 * Line 21	$ 0.0868
26	UG Fiber - OC-12	85C	00	Line 19 * Line 21	$ 0.2644
27					
28					
29	**FIBER HUB TO CUSTOMER PREMISES OC-3**				
30	Aerial Fiber - Per Wgtd Fiber Mile - OC- 3	822C	00	Input Sheet Line 57	$ 1.0323
31	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	845C	00	Input Sheet Line 59	$ 0.2831
32	UG Fiber - Per Wgtd Fiber Mile - OC- 3	85C	00	Input Sheet Line 61	$ 0.8625
33					
34	Number of Strands per Ring			Input Sheet Line 91	3
35	Route to Air Ratio (RTA)			Input Sheet Line 86	1.34
36					
37	TOTAL CO TO HUB OC-3 AIR MILES				
38	Aerial Fiber - OC-3	822C	00	Line 30 * Line 34 * Line 35 * 1/2	$ 2.0750
39	Buried Fiber - OC-3	845C	00	Line 31 * Line 34 * Line 35 * 1/2	$ 0.5691
40	UG Fiber - OC-3	85C	00	Line 32 * Line 34 * Line 35 * 1/2	$ 1.7335
41					
42	Probability of Hub to CP - Design 5			Input Sheet Line 100	50%
43					
44	WEIGHTED TOTAL CO TO HUB OC-12 AIR MILES				
45	Aerial Fiber - OC-3	822C	00	Line 38 * Line 42	$ 1.0375
46	Buried Fiber - OC-3	845C	00	Line 39 * Line 42	$ 0.2845
47	UG Fiber - OC-3	85C	00	Line 40 * Line 42	$ 0.8668
48					
49	**TOTAL LOOP MATERIAL**				
50	Aerial Fiber	822C	00	Sum Lines 24, 45	$ 1.3540
51	Buried Fiber	845C	00	Sum Lines 25, 46	$ 0.3713
52	UG Fiber	85C	00	Sum Lines 26, 47	$ 1.1312
53					
54	Design 5 Probability of Occurrence			Input Sheet Line 96	23%
55	State Average Air 1/2 miles			Input Sheet Line 88	2.7
56	Ratio Of Circumference To The Diameter			Input Sheet Line 89	3.14
57	Of A Circle				
58					
59	**TOTAL WEIGHTED TRANSPORT MATERIAL**				
60	Aerial Fiber	822C	00	Line 50 * Line 54 * Line 55 * Line 56	$ 2.6402
61	Buried Fiber	845C	00	Line 51 * Line 54 * Line 55 * Line 56	$ 0.7241
62	UG Fiber	85C	00	Line 52 * Line 54 * Line 55 * Line 56	$ 2.2057

001271

	A	B	C	D	E	F	G	H	I	J	K
1	Tennessee										
2	Index Sheet										
3	Study Period: 01/2000-12/2002										
4											
5											
6											
7											
8											
9			**Sheet Name:**		**Description:**						
10			Index		Sub-Loop Concentration						
11			Investments		CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA						
12			Additives_Recurring		CALCULATOR INPUT FORM - RECURRING EXPENSES DATA						
13			Additives_Nonrecurring		CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA						
14			Recurring Labor		CALCULATOR INPUT FORM - RECURRING LABOR EXPENSES DATA						
15			Nonrecurring Labor		CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES						
16			INPUT		Inputs-Utilized Material Prices						
17			INPUT_NRC		Non Recurring Labor						
18			WP300		SYS A - TR008						
19			WP301		SYS B - TR008						
20			WP302		SYS A - TR303						
21			WP303		SYS B - TR303						
22			WP304		POTS Card						
23			WP305		ISDN Brite Card						
24			WP306		SPOTS Card						
25			WP307		SPECIALS Card						
26			WP308		TEST Circuit						
27			WP309		Digital Data Card						
28											
29											
30											
31											
32											
33											

001212

CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA

Instructions:

1. **Use this worksheet to record material and/or investments to be input into the Calculator calculations.**
2. **All amounts shown are per unit (e.g., per call, per loop, per MOU).**
3. **Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.**
4. **All data on this form should be cell-referenced to study workpapers.**
5. **Do NOT change columns, headings, sheet name.**

State	Cost Element #	FRC	Sub FRC	Volume Sensitive $ Amount	Volume Insensitive $ Amount
TN	A.12.1	4C	00	$ -	
TN	A.12.1	10C	00	$ 266.406	
TN	A.12.1	12C	00	$ 75.738	
TN	A.12.1	22C	00	$ 42.920	
TN	A.12.1	45C	00	$ 102.999	
TN	A.12.1	257C	37	$ 8,820.337	
TN	A.12.1	257C	40	$ 3,095.000	
TN	A.12.2	12C	00	$ 75.738	
TN	A.12.2	22C	00	$ 42.920	
TN	A.12.2	45C	00	$ 102.999	
TN	A.12.2	257C	37	$ 16.056	
TN	A.12.2	257C	40	$ 2,116.000	
TN	A.12.3	4C	00	$ -	
TN	A.12.3	10C	00	$ 266.406	
TN	A.12.3	12C	00	$ 75.738	
TN	A.12.3	22C	00	$ 42.920	
TN	A.12.3	45C	00	$ 102.999	
TN	A.12.3	257C	37	$ 8,820.337	
TN	A.12.3	257C	40	$ 4,409.000	
TN	A.12.4	12C	00	$ 75.738	
TN	A.12.4	22C	00	$ 42.920	
TN	A.12.4	45C	00	$ 102.999	
TN	A.12.4	257C	37	$ 16.056	
TN	A.12.4	257C	40	$ 3,430.000	
TN	A.12.6	257C	43	$ 75.000	
TN	A.12.7	257C	43	$ 300.000	
TN	A.12.8	257C	43	$ 446.000	
TN	A.12.9	257C	43	$ 266.000	
TN	A.12.10	257C	43	$ 1,300.000	
TN	A.12.11	257C	43	$ 394.000	

001273

CALCULATOR INPUT FORM - RECURRING EXPENSES DATA

Instructions:

1. **Use this worksheet to record recurring non-labor expenses to be input into the Calculator calculations.**
2. **All amounts shown are per unit (e.g., per call, per loop, per MOU).**
3. **Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.**
4. **All data on this form should be cell-referenced to study workpapers.**
5. **Do NOT change columns, headings, sheet name.**

State	Cost Element #	Recurring Expense Description (Limited to 25 characters)	Recurring Volume Sensitive $ Amount	Recurring Volume Insensitive $ Amount
	END			

Maximum 10 entries per Cost Element #

00127/4

CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA

Instructions:

1. Use this worksheet to record nonrecurring non-labor expenses to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.
6. Use column D when cost element has a single nonrecurring cost; use columns E & F for elements with a first and additional nonrecurring cost; use columns G & H for elements with an initial and subsequent nonrecurring cost.

State	Cost Element #	Nonrecurring Expense Description (Limited to 25 characters)	Nonrecurring $ Amount	Nonrecurring First $ Amount	Nonrecurring Additional $ Amount	Nonrecurring Initial $ Amount	Nonrecurring Subsequent $ Amount
	END						

Maximum 10 entries per Cost Element #

00125

CALCULATOR INPUT FORM - RECURRING LABOR EXPENSES DATA

Instructions:

1. **Use this worksheet to record recurring expensed labor times to be input into the Calculator calculations.**
2. **All amounts shown are per unit (e.g., per call, per loop, per MOU).**
3. **Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.**
4. **All data on this form should be cell-referenced to study workpapers.**
5. **Do NOT change columns, headings, sheet name.**

State	Cost Element #	Labor Expense Description (Limited to 25 characters)	JFC/ Payband	Work Time (Hours) Volume Sensitive	Work Time (Hours) Volume Insensitive
	END				

Maximum 20 entries per Cost Element #

00127/6

CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES

Instructions:

1. Use this worksheet to record nonrecurring labor times to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.
6. Use columns F & G when cost element has a single nonrecurring cost; use columns H, I, J, & K for elements with a first and additional nonrecurring cost; use columns L, M, N & O for elements with an initial and subsequent nonrecurring cost.
7. Input Cost Element Life (in months) on first row of data for each cost element. It is not necessary to repeat on each line.

Study Mid-Point Date (Mos.) 6/1/2001

State	Cost Element #	Cost Element Life (Mo)	Labor Expense Description (Limited to 25 characters)	JFC/ Payband	(For use w/ one NR) Installation Time (Hours)	(For use w/ one NR) Disconnect Time Hours	First Installation Time (Hours)	First Disconnect Time Hours	Additional Installation Time (Hours)	Additional Disconnect Time Hours	Initial Installation Time (Hours)	Initial Disconnect Time Hours	Subsequent Installation Time (Hours)	Subsequent Disconnect Time Hours
TN	A.12.1	52	Engineering	32XX			8.0000	0.0000	4.0000	0.0000				
TN	A.12.1	52	Engineering	4M1X			1.0000	0.0000	1.0000	0.0000				
TN	A.12.199	52	Engineering	32XX			0.0000	4.0000	0.0000	1.0000				
TN	A.12.199	52	Engineering	4M1X			0.0000	0.5000	0.0000	0.5000				
TN	A.12.2	52	Engineering	32XX			8.0000	0.0000	4.0000	0.0000				
TN	A.12.2	52	Engineering	4M1X			1.0000	0.0000	1.0000	0.0000				
TN	A.12.299	52	Engineering	32XX			0.0000	4.0000	0.0000	1.0000				
TN	A.12.299	52	Engineering	4M1X			0.0000	0.5000	0.0000	0.5000				
TN	A.12.3	52	Engineering	32XX			8.0000	0.0000	4.0000	0.0000				
TN	A.12.3	52	Engineering	4M1X			1.0000	0.0000	1.0000	0.0000				
TN	A.12.399	52	Engineering	32XX			0.0000	4.0000	0.0000	1.0000				
TN	A.12.399	52	Engineering	4M1X			0.0000	0.5000	0.0000	0.5000				
TN	A.12.4	52	Engineering	32XX			8.0000	0.0000	4.0000	0.0000				
TN	A.12.4	52	Engineering	4M1X			1.0000	0.0000	1.0000	0.0000				
TN	A.12.499	52	Engineering	32XX			0.0000	4.0000	0.0000	1.0000				
TN	A.12.499	52	Engineering	4M1X			0.0000	0.5000	0.0000	0.5000				
TN	A.12.6	52	Engineering	3A2X			0.0333	0.0000	0.0333	0.0000				
TN	A.12.6	52	Connect	431X			0.1767	0.0000	0.1757	0.0000				
TN	A.12.698	52	Test	431X			0.2650	0.0000	0.2635	0.0000				
TN	A.12.699	52	Engineering	3A2X			0.0000	0.0167	0.0000	0.0167				
TN	A.12.699	52	Connect	431X			0.0000	0.1784	0.0000	0.1772				
TN	A.12.7	52	Engineering	3A2X			0.0333	0.0000	0.0333	0.0000				
TN	A.12.7	52	Connect	431X			0.1767	0.0000	0.1757	0.0000				
TN	A.12.798	52	Test	431X			0.2650	0.0000	0.2635	0.0000				
TN	A.12.799	52	Engineering	3A2X			0.0000	0.0167	0.0000	0.0167				
TN	A.12.799	52	Connect	431X			0.0000	0.1784	0.0000	0.1772				
TN	A.12.8	52	Engineering	3A2X			0.0333	0.0000	0.0333	0.0000				
TN	A.12.8	52	Connect	431X			0.1767	0.0000	0.1757	0.0000				
TN	A.12.898	52	Test	431X			0.2650	0.0000	0.2635	0.0000				
TN	A.12.899	52	Engineering	3A2X			0.0000	0.0167	0.0000	0.0167				
TN	A.12.899	52	Connect	431X			0.0000	0.1784	0.0000	0.1772				
TN	A.12.9	52	Engineering	3A2X			0.0333	0.0000	0.0333	0.0000				
TN	A.12.9	52	Connect	431X			0.1767	0.0000	0.1757	0.0000				
TN	A.12.998	52	Test	431X			0.2650	0.0000	0.2635	0.0000				
TN	A.12.999	52	Engineering	3A2X			0.0000	0.0167	0.0000	0.0167				
TN	A.12.999	52	Connect	431X			0.0000	0.1784	0.0000	0.1772				
TN	A.12.10	52	Engineering	3A2X			0.0333	0.0000	0.0333	0.0000				
TN	A.12.10	52	Connect	431X			0.1767	0.0000	0.1757	0.0000				
TN	A.12.1098	52	Test	431X			0.2650	0.0000	0.2635	0.0000				
TN	A.12.1099	52	Engineering	3A2X			0.0000	0.0167	0.0000	0.0167				
TN	A.12.1099	52	Connect	431X			0.0000	0.1784	0.0000	0.1772				
TN	A.12.11	52	Engineering	3A2X			0.0333	0.0000	0.0333	0.0000				
TN	A.12.11	52	Connect	431X			0.1767	0.0000	0.1757	0.0000				
TN	A.12.1198	52	Test	431X			0.2650	0.0000	0.2635	0.0000				
TN	A.12.1199	52	Engineering	3A2X			0.0000	0.0167	0.0000	0.0167				
TN	A.12.1199	52	Connect	431X			0.0000	0.1784	0.0000	0.1772				
		END												

Maximum of 25 entries per Cost Element #

00127

	A	B	C	D	E	F	G	H	I	J
1	Tennessee									
2	Inputs-Utilized Material Prices									
3	Study Period: 01/2000-12/2002									
4										
5	Element #: A.12.1--A.12.11									
6	Description	FRC	SubFRC	Source	Amount	SYS A - TR008	SYS B - TR008	SYS A - TR303	SYS B - TR303	INT CARDS
7	DSX-1 Panel Termination @DS1	257C	37	DS1 Calculator	$ 14.3500	10				
8										
9	DCB Shelf (Hardwired Eqpt.)	257C	37	Product Team	$ 4,154.0000	1		1		
10	DCB Plugs (TR008-System A)	257C	40	Product Team	$ 3,095.0000	1				
11	DCB Plugs (TR008-System B)	257C	40	Product Team	$ 2,116.0000		1			
12	DCB Plugs (TR303-System A)	257C	40	Product Team	$ 4,409.0000			1		
13	DCB Plugs (TR303-System B)	257C	40	Product Team	$ 3,430.0000				1	
14										
15	Dist. Eqpt. , 76S-1 (HA) Type Block	257C	37	PPS&M	$ 160.5600	1	1	1	1	
16	X-Box Feeder Termininations	12C	00	X-BOX.XLS	$ 0.8766	96	96	96	96	
17	X-Box Feeder Termininations	22C	00	X-BOX.XLS	$ 0.4968	96	96	96	96	
18	X-Box Feeder Termininations	45C	00	X-BOX.XLS	$ 1.1921	96	96	96	96	
19										
20	Cabinet (weighted material Price)	257C	37	Housing.XLS	$ 4,506.7809	1				
21	Hut (weighted material price)	10C	00	Housing.XLS	$ 266.4061	1				
22	CEV (weighted material price)	4C	00	Housing.XLS	$ -	1				
23										
24	Probability of Occurance of - X-box			Product Team	90%					
25	Probability of Occurance of - 76S-1			Product Team	10%					
26										
27	DS1 LIU Card	257C	43	Product Team	$ 230.0000					1
28										
29	POTS Card	257C	43	Product Team	$ 75.0000					1
30	ISDN Brite Card	257C	43	Product Team	$ 300.0000					1
31	SPOTS Card	257C	43	Product Team	$ 446.0000					1
32	SPECIALS Card	257C	43	Product Team	$ 266.0000					1
33	TEST Circuit	257C	43	Product Team	$ 1,300.0000					1
34	Digital Data	257C	43	Product Team	$ 394.0000					1
35										

001278

	A	B	C	D	E	F	G	H	I	J
1	Tennessee									
2	Non Recurring Labor									
3	Study Period: 01/2000-12/2002									
4										
5	Element #: A.12.1--A.12.11			First	First	Additional	Additional			
6	Item/Description			Install	Disconnect	Install	Disconnect			
7	Work Group	Description	JFC / JG / WS	Time Hrs	Time Hrs	Time Hrs	Time Hrs	Source		
8	Engineering OSPE	Engineering	32XX	8.0000	4.0000	4.0000	1.0000	Network	System "A"	
9	Address & Facility Inventory Group (AFIG)	Engineering	4M1X	1.0000	0.5000	1.0000	0.5000	Network		
10										
11	Engineering OSPE	Engineering	32XX	8.0000	4.0000	4.0000	1.0000	Network	System"B"	
12	Address & Facility Inventory Group (AFIG)	Engineering	4M1X	1.0000	0.5000	1.0000	0.5000	Network		
13										
14	Network Plug-In Administration (PICS)	Engineering	3A2X	0.0333	0.0167	0.0333	0.0167	Network	Feature Activation	
15	CO Install & Mtce Field - Ckt & Facility	Connect	431X	0.1767	0.1784	0.1757	0.1772	Network		
16	CO Install & Mtce Field - Ckt & Facility	Test	431X	0.2650	0.0000	0.2635	0.0000	Network		
17										
18										
19										
20	Location Life (Mo)	52		LocLife.XLS						

	A	B	C	D	E	F	G
1	Tennessee						
2	SYS A - TR008						
3	Study Period: 01/2000-12/2002						
4							
5	Element # A.12.1						
6	Item/Description						Total
7	Description	FRC	SubFRC	Source	Quantity	Amount	Material
8	DSX-1 Panel Termination @DS1	257C	37	Inputs Ln7	10	$ 14.3500	$ 143.5000
9							
10	DCB Shelf (Hardwired Eqpt.)	257C	37	Inputs Ln9	1	$4,154.0000	$ 4,154.0000
11							
12	DCB Plugs (TR008-System A)	257C	40	Inputs Ln10	1	$3,095.0000	$ 3,095.0000
13							
14	Cabinet (weighted material Price)	257C	37	Inputs Ln20	1	$4,506.7809	$ 4,506.7809
15							
16	Hut (weighted material price)	10C	00	Inputs Ln21	1	$ 266.4061	$ 266.4061
17							
18	CEV (weighted material price)	4C	00	Inputs Ln22	1	$ -	$ -
19							
20	X-Box Feeder Terminination	12C	00	Inputs Ln16	96	$ 0.8766	$ 84.1530
21	X-Box Feeder Terminination	22C	00	Inputs Ln17	96	$ 0.4968	$ 47.6891
22	X-Box Feeder Terminination	45C	00	Inputs Ln18	96	$ 1.1921	$ 114.4434
23							
24	Dist. Eqpt. , 76S-1 (HA) Type Block	257C	37	Inputs Ln15	1	$ 160.5600	$ 160.5600
25							
26	Probability of Occurance of - X-box			Inputs Ln24	90%		
27							
28	Probability of Occurance of - 76S-1			Inputs Ln25	10%		
29							
30	Weighted X-Box	12C	00	G20 * E26			$ 75.7377
31		22C	00	G21 * E26			$ 42.9202
32		45C	00	G22 * E26			$ 102.9990
33							
34	Weighted 76 Type Block	257C	37	G24 * E28			$ 16.0560
35							
36							
37	Total Weighted C hannel System						
38		4C	00	Ln18			$ -
39		10C	00	Ln16			$ 266.4061
40		12C	00	Ln30			$ 75.7377
41		22C	00	Ln31			$ 42.9202
42		45C	00	Ln32			$ 102.9990
43		257C	37	Ln34 + Ln8 + Ln10 + Ln14			$ 8,820.3369
44		257C	40	Ln12			$ 3,095.0000

001280

	A	B	C	D	E	F	G
1	Tennessee						
2	SYS B - TR008						
3	Study Period: 01/2000-12/2002						
4							
5	Element # A.12.2						
6	Item/Description						Total
7	Description	FRC	SubFRC	Source	Quantity	Amount	Material
8	DCB Plugs (TR008-System B)	257C	40	Inputs Ln11	1	$2,116.0000	$ 2,116.0000
9							
10	X-Box Feeder Termininations	12C	00	Inputs Ln16	96	$ 0.8766	$ 84.1530
11	X-Box Feeder Termininations	22C	00	Inputs Ln17	96	$ 0.4968	$ 47.6891
12	X-Box Feeder Termininations	45C	00	Inputs Ln18	96	$ 1.1921	$ 114.4434
13							
14	Dist. Eqpt. , 76S-1 (HA) Type Block	257C	37	Inputs Ln15	1	$ 160.5600	$ 160.5600
15							
16	Probability of Occurance of - X-box			Inputs Ln24	90%		
17							
18	Probability of Occurance of - 76S-1			Inputs Ln25	10%		
19							
20	Weighted X-Box	12C	00	G10 * E16			$ 75.7377
21		22C	00	G11 * E16			$ 42.9202
22		45C	00	G12 * E16			$ 102.9990
23							
24	Weighted 76 Type Block	257C	37	G14 * E18			$ 16.0560
25							
26							
27							
28							
29	Total Weighted C hannel System						
30		12C	00	Ln20			$ 75.7377
31		22C	00	Ln21			$ 42.9202
32		45C	00	Ln22			$ 102.9990
33		257C	37	Ln24			$ 16.0560
34		257C	40	Ln8			$ 2,116.0000

001281

	A	B	C	D	E	F	G
1	Tennessee						
2	SYS A - TR303						
3	Study Period: 01/2000-12/2002						
4							
5	Element # A.12.3						
6	Item/Description						Total
7	Description	FRC	SubFRC	Source	Quantity	Amount	Material
8	DSX-1 Panel Termination @DS1	257C	37	Inputs Ln7	10	$ 14.3500	$ 143.5000
9							
10	DCB Shelf (Hardwired Eqpt.)	257C	37	Inputs Ln9	1	$4,154.0000	$ 4,154.0000
11							
12	DCB Plugs (TR303-System A)	257C	40	Inputs Ln12	1	$4,409.0000	$ 4,409.0000
13							
14	Cabinet (weighted material Price)	257C	37	Inputs Ln20	1	$4,506.7809	$ 4,506.7809
15							
16	Hut (weighted material price)	10C	00	Inputs Ln21	1	$ 266.4061	$ 266.4061
17							
18	CEV (weighted material price)	4C	00	Inputs Ln22	1	$ -	$ -
19							
20	X-Box Feeder Terminination	12C	00	Inputs Ln16	96	$ 0.8766	$ 84.1530
21	X-Box Feeder Terminination	22C	00	Inputs Ln17	96	$ 0.4968	$ 47.6891
22	X-Box Feeder Terminination	45C	00	Inputs Ln18	96	$ 1.1921	$ 114.4434
23							
24	Dist. Eqpt. , 76S-1 (HA) Type Block	257C	37	Inputs Ln15	1	$ 160.5600	$ 160.5600
25							
26	Probability of Occurance of - X-box			Inputs Ln24	90%		
27							
28	Probability of Occurance of - 76S-1			Inputs Ln25	10%		
29							
30	Weighted X-Box	12C	00	G20 * E26			$ 75.7377
31		22C	00	G21 * E26			$ 42.9202
32		45C	00	G22 * E26			$ 102.9990
33							
34	Weighted 76 Type Block	257C	37	G24 * E28			$ 16.0560
35							
36							
37	Total Weighted C hannel System						
38		4C	00	Ln18			$ -
39		10C	00	Ln16			$ 266.4061
40		12C	00	Ln30			$ 75.7377
41		22C	00	Ln31			$ 42.9202
42		45C	00	Ln32			$ 102.9990
43		257C	37	Ln34 + Ln8 + Ln10 + Ln14			$ 8,820.3369
44		257C	40	Ln12			$ 4,409.0000

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	A	B	C	D	E	F	G
1	Tennessee						
2	SYS B - TR303						
3	Study Period: 01/2000-12/2002						
4							
5	Element # A.12.4						
6	Item/Description						Total
7	Description	FRC	SubFRC	Source	Quantity	Amount	Material
8	DCB Plugs (TR303-System B)	257C	40	Inputs Ln13	1	$3,430.0000	$ 3,430.0000
9							
10	X-Box Feeder Terminination	12C	00	Inputs Ln16	96	$ 0.8766	$ 84.1530
11	X-Box Feeder Terminination	22C	00	Inputs Ln17	96	$ 0.4968	$ 47.6891
12	X-Box Feeder Terminination	45C	00	Inputs Ln18	96	$ 1.1921	$ 114.4434
13							
14	Dist. Eqpt. , 76S-1 (HA) Type Block	257C	37	Inputs Ln15	1	$ 160.5600	$ 160.5600
15							
16	Probability of Occurance of - X-box			Inputs Ln24	90%		
17							
18	Probability of Occurance of - 76S-1			Inputs Ln25	10%		
19							
20	Weighted X-Box	12C	00	G10 * E16			$ 75.7377
21		22C	00	G11 * E16			$ 42.9202
22		45C	00	G12 * E16			$ 102.9990
23							
24	Weighted 76 Type Block	257C	37	G14 * E18			$ 16.0560
25							
26							
27							
28							
29	Total Weighted C hannel System						
30		12C	00	Ln20			$ 75.7377
31		22C	00	Ln21			$ 42.9202
32		45C	00	Ln22			$ 102.9990
33		257C	37	Ln24			$ 16.0560
34		257C	40	Ln8			$ 3,430.0000

001283

	A	B	C	D	E	F	G
1	Tennessee						
2	POTS Card						
3	Study Period: 01/2000-12/2002						
4							
5	Element # A.12.6						
6	Item/Description						Total
7	Description	FRC	SubFRC	Source	Quantity	Amount	Material
8	POTS Card	257C	43	Inputs Ln29	1	$ 75.0000	$ 75.0000
9							
10							
11	Total Weighted POTS Card						
12		257C	43	Ln8			$ 75.0000

001284

	A	B	C	D	E	F	G
1	Tennessee						
2	ISDN Brite Card						
3	Study Period: 01/2000-12/2002						
4							
5	Element # A.12.7						
6	Item/Description						Total
7	Description	FRC	SubFRC	Source	Quantity	Amount	Material
8	ISDN Brite Card	257C	43	Inputs Ln30	1	$ 300.0000	$ 300.0000
9							
10							
11	Total ISDN Brite Card						
12		257C	43	Ln8			$ 300.0000

001285

	A	B	C	D	E	F	G
1	Tennessee						
2	SPOTS Card						
3	Study Period: 01/2000-12/2002						
4							
5	Element # A.12.8						
6	Item/Description						Total
7	Description	FRC	SubFRC	Source	Quantity	Amount	Material
8	SPOTS Card	257C	43	Inputs Ln31	1	$ 446.0000	$ 446.0000
9							
10							
11	Total SPOTS Card						
12		257C	43	Ln8			$ 446.0000

001286

	A	B	C	D	E	F	G
1	Tennessee						
2	SPECIALS Card						
3	Study Period: 01/2000-12/2002						
4							
5	Element # A.12.9						
6	Item/Description						Total
7	Description	FRC	SubFRC	Source	Quantity	Amount	Material
8	SPECIALS Card	257C	43	Inputs Ln32	1	$ 266.0000	$ 266.0000
9							
10							
11	Total Specials Card						
12		257C	43	Ln8			$ 266.0000

001287

	A	B	C	D	E	F	G
1	Tennessee						
2	TEST Circuit						
3	Study Period: 01/2000-12/2002						
4							
5	Element # A.12.10						
6	Item/Description						Total
7	Description	FRC	SubFRC	Source	Quantity	Amount	Material
8	TEST Circuit	257C	43	Inputs Ln33	1	$1,300.0000	$ 1,300.0000
9							
10							
11	Total Test Circuit Card						
12		257C	43	Ln8			$ 1,300.0000

001288

	A	B	C	D	E	F	G
1	Tennessee						
2	Digital Data Card						
3	Study Period: 01/2000-12/2002						
4							
5	Element # A.12.11						
6	Item/Description						Total
7	Description	FRC	SubFRC	Source	Quantity	Amount	Material
8	Digital Data	257C	43	Inputs Ln34	1	$ 394.0000	$ 394.0000
9							
10							
11	Total Digital Data Card						
12		257C	43	Ln8			$ 394.0000

001289

Tennessee
Index Sheet
Study Period: 2000-2002

Element #: A.12.5

Sheet Name:	Description:
Index	Unbundled Loop Concentrator - Feeder Interface
Investments	CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA
Additives_Recurring	CALCULATOR INPUT FORM - RECURRING EXPENSES DATA
Additives_Nonrecurring	CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA
Recurring Labor	CALCULATOR INPUT FORM - RECURRING LABOR EXPENSES DATA
Nonrecurring Labor	CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES
Input Nonrecurring	NONRECURRING WORKTIMES
Input Recurring	RECURRING INPUTS
WP300	SUMMARY
WP301	DS1 LIU CARD
WP311	COPPER ELECTRONICS
WP312	COPPER TRANSPORT
WP321	DESIGN 1 - ELECTRONICS
WP322	DESIGN 1 - TRANSPORT
WP331	DESIGN 2 - ELECTRONICS
WP332	DESIGN 2 - TRANSPORT
WP341	DESIGN 3 - ELECTRONICS
WP342	DESIGN 3 - TRANSPORT
WP351A	DESIGN 4 - C.O. & HUB - ELECTRONICS
WP351B	DESIGN 4 - CUSTOMER PREMISES - ELECTRONICS
WP352	DESIGN 4 - TRANSPORT

001290

	A	B	C	D	E	F	G
1		**CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA**					
2							
3		**Instructions:**					
4		**1. Use this worksheet to record material and/or investments to be input into the**					
5		**Calculator calculations.**					
6		**2. All amounts shown are per unit (e.g., per call, per loop, per MOU).**					
7		**3. Input data, by Cost Element, leaving no blank lines. On next row**					
8		**after last line of data, type END in Cost Element Column.**					
9		**4. All data on this form should be cell-referenced to study workpapers.**					
10		**5. Do NOT change columns, headings, sheet name.**					
11							
12					**Volume**	**Volume**	
13		**Cost**		**Sub**	**Sensitive**	**Insensitive**	
14	**State**	**Element #**	**FRC**	**FRC**	**$ Amount**	**$ Amount**	
15	TN	A.12.5	257C	03	$ 112.8110		
16	TN	A.12.5	257C	06	$ 219.0487		
17	TN	A.12.5	257C	09	$ 343.0094		
18	TN	A.12.5	257C	15	$ 9.8282		
19	TN	A.12.5	257C	19	$ 84.5154		
20	TN	A.12.5	257C	22	$ 535.7021		
21	TN	A.12.5	257C	25	$ 105.4751		
22	TN	A.12.5	257C	37	$ 28.4548		
23	TN	A.12.5	257C	40	$ 222.5880		
24	TN	A.12.5	257C	43	$ 295.0604		
25	TN	A.12.5	22C	00	$ 2.0579		
26	TN	A.12.5	45C	00	$ 2.2405		
27	TN	A.12.5	5C	00	$ 3.7414		
28	TN	A.12.5	822C	00	$ 10.8714		
29	TN	A.12.5	845C	00	$ 2.9816		
30	TN	A.12.5	85C	00	$ 9.0824		
31		END					

001291

CALCULATOR INPUT FORM - RECURRING EXPENSES DATA

Instructions:

1. **Use this worksheet to record recurring non-labor expenses to be input into the Calculator calculations.**
2. **All amounts shown are per unit (e.g., per call, per loop, per MOU).**
3. **Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.**
4. **All data on this form should be cell-referenced to study workpapers.**
5. **Do NOT change columns, headings, sheet name.**

State	Cost Element #	Recurring Expense Description (Limited to 25 characters)	Recurring Volume Sensitive $ Amount	Recurring Volume Insensitive $ Amount
TN				
	END			

Maximum 10 entries per Cost Element #

001292

CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA

Instructions:

1. Use this worksheet to record nonrecurring non-labor expenses to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.
6. Use column D when cost element has a single nonrecurring cost; use columns E & F for elements with a first and additional nonrecurring cost; use columns G & H for elements with an initial and subsequent nonrecurring cost.

State	Cost Element #	Nonrecurring Expense Description (Limited to 25 characters)	Nonrecurring $ Amount	Nonrecurring First $ Amount	Nonrecurring Additional $ Amount	Nonrecurring Initial $ Amount	Nonrecurring Subsequent $ Amount
TN							
	END						

Maximum 10 entries per Cost Element #

001293

CALCULATOR INPUT FORM - RECURRING LABOR EXPENSES DATA

Instructions:

1. Use this worksheet to record recurring expensed labor times to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.

State	Cost Element #	Labor Expense Description (Limited to 25 characters)	JFC/ Payband	Work Time (Hours) Volume Sensitive	Work Time (Hours) Volume Insensitive
TN					
	END				

Maximum 20 entries per Cost Element #

001294

CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES

Instructions:

1. Use this worksheet to record nonrecurring labor times to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.
6. Use columns F & G when cost element has a single nonrecurring cost; use columns H, I, J, & K for elements with a first and additional nonrecurring cost; use columns L, M, N & O for elements with an initial and subsequent nonrecurring cost.
7. Input Cost Element Life (in months) on first row of data for each cost element. It is not necessary to repeat on each line.

Study Mid-Point Date (Mos.) 6/1/2001

						(For use w/ one NR)									
State	Cost Element #	Cost Element Life (Mo)	Labor Expense Description (Limited to 25 characters)	JFC/ Payband	Installation Time (Hours)	Disconnect Time Hours	First Installation Time (Hours)	First Disconnect Time Hours	Additional Installation Time (Hours)	Additional Disconnect Time Hours	Initial Installation Time (Hours)	Initial Disconnect Time Hours	Subsequent Installation Time (Hours)	Subsequent Disconnect Time Hours
TN	A.12.5	52	SERVICE ORDER	230X			0.0175	0.0000	0.0175	0.0000				
TN	A.12.5	52	ENGINEERING	4N4X			0.0825	0.0000	0.0450	0.0000				
TN	A.12.5	52	ENGINEERING	JG57			0.0004	0.0000	0.0004	0.0000				
TN	A.12.5	52	ENGINEERING	WS16			0.0046	0.0000	0.0046	0.0000				
TN	A.12.5	52	ENGINEERING	4M1X			0.1333	0.0000	0.1333	0.0000				
TN	A.12.5	52	ENGINEERING	JG57			0.0750	0.0000	0.0750	0.0000				
TN	A.12.5	52	ENGINEERING	4FXX			0.0250	0.0000	0.0250	0.0000				
TN	A.12.5	52	CONNECT	4AXX			0.6057	0.0000	0.1495	0.0000				
TN	A.12.5	52	CONNECT	4WXX			0.2500	0.0000	0.0000	0.0000				
TN	A.12.5	52	CONNECT	431X			0.1700	0.0000	0.0850	0.0000				
TN	A.12.5	52	CONNECT	411X			1.1031	0.0000	0.4531	0.0000				
TN	A.12.5	52	TRAVEL	411X			0.3333	0.0000	0.0000	0.0000				
TN	A.12.598	52	TEST	4AXX			1.2149	0.0000	1.2149	0.0000				
TN	A.12.598	52	TEST	411X			0.3409	0.0000	0.3409	0.0000				
TN	A.12.598	52	TEST	431X			0.1133	0.0000	0.0567	0.0000				
TN	A.12.599	52	SERVICE ORDER	230X			0.0000	0.0175	0.0000	0.0175				
TN	A.12.599	52	ENGINEERING	4N4X			0.0000	0.0442	0.0000	0.0067				
TN	A.12.599	52	ENGINEERING	4M1X			0.0000	0.1333	0.0000	0.1333				
TN	A.12.599	52	CONNECT	4AXX			0.0000	0.4823	0.0000	0.0500				
TN	A.12.599	52	CONNECT	4WXX			0.0000	0.2500	0.0000	0.0000				
TN	A.12.599	52	CONNECT	431X			0.0000	0.1275	0.0000	0.0595				
TN	A.12.599	52	CONNECT	411X			0.0000	0.7833	0.0000	0.1333				
TN	A.12.599	52	TRAVEL	411X			0.0000	0.3333	0.0000	0.0000				
	END													

Maximum of 25 entries per Cost Element #

	A	B	C	D	E	F	G	H	I	J	K
1	Tennessee										
2	Nonrecurring Worktimes										
3	Study Period: 2000-2002										
4											
5											
6	**A.12.5**	**Sub-Loop - Concentration - USLC Feeder Interface**									
7	Location Life		52	Months	LocLife.XLS						
8							Worktimes (Min.)			Worktimes (Hrs.)	
9	**Source**	**Description**	**JFC / JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**
10	TN-USL,INPUTS_SERVICE ORDER, Rows 7	SERVICE ORDER	230X	1.05	1.05	1.05	1.05	0.0175	0.0175	0.0175	0.0175
11	TN-USL,INPUTS_ENGINEERING, Rows 23+24	ENGINEERING	4N4X	4.95	2.65	2.70	0.40	0.0825	0.0442	0.0450	0.0067
12	TN-USL,INPUTS_ENGINEERING, Row =29*28	ENGINEERING	JG57	0.03	0.00	0.03	0.00	0.0004	0.0000	0.0004	0.0000
13	TN-USL,INPUTS_ENGINEERING, Rows 30+31*28	ENGINEERING	WS16	0.28	0.00	0.28	0.00	0.0046	0.0000	0.0046	0.0000
14	TN-USL,INPUTS_ENGINEERING, Row 18	ENGINEERING	4M1X	8.00	8.00	8.00	8.00	0.1333	0.1333	0.1333	0.1333
15	TN-USL,INPUTS_ENGINEERING, Row 7	ENGINEERING	JG57	4.50	0.00	4.50	0.00	0.0750	0.0000	0.0750	0.0000
16	TN-USL,INPUTS_ENGINEERING, Row 8	ENGINEERING	4FXX	1.50	0.00	1.50	0.00	0.0250	0.0000	0.0250	0.0000
17	TN-USL,IRows 14-23	CONNECT	4AXX	36.34	28.94	8.97	3.00	0.6057	0.4823	0.1495	0.0500
18	TN-USL,INPUTS_CONNECT&TEST, Row 50	CONNECT	4WXX	15.00	15.00	0.00	0.00	0.2500	0.2500	0.0000	0.0000
19	TN-USL,INPUTS_CONNECT&TEST, Row 54	CONNECT	431X	10.20	7.65	5.10	3.57	0.1700	0.1275	0.0850	0.0595
20	TN-USL,INPUTS_CONNECT&TEST, Rows 29+30+31+32+34+38	CONNECT	411X	66.18	47.00	27.18	8.00	1.1031	0.7833	0.4531	0.1333
21	TN-USL,INPUTS_TRAVEL, Row 7	TRAVEL	411X	20.00	20.00	0.00	0.00	0.3333	0.3333	0.0000	0.0000
22	TN-USL,INPUTS_CONNECT&TEST, Rows 19+20	TEST	4AXX	72.89	0.00	72.89	0.00	1.2149	0.0000	1.2149	0.0000
23	TN-USL,INPUTS_CONNECT&TEST, Row 30+32+34	TEST	411X	20.46	0.00	20.46	0.00	0.3409	0.0000	0.3409	0.0000
24	TN-USL,INPUTS_CONNECT&TEST, Row 54	TEST	431X	6.80	0.00	3.40	0.00	0.1133	0.0000	0.0567	0.0000

	A	B	C	D	E
1	Tennessee				
2	RECURRING INPUTS				
3	Study Period: 2000-2002				
4					
5	Element #: A.12.5				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	Battery Back-up - OC- 3 (CP)	257C	19	SONET Price Calculator	$ 30.9814
9	Battery Back-up - OC- 3 (CP)	257C	22	SONET Price Calculator	$ 23.3449
10	C.O. Interface DS1 on OC- 3 - Mux & Protect	257C	06	SONET Price Calculator	$ 66.3749
11	C.O. Interface DS1 on OC- 3 - Working	257C	03	SONET Price Calculator	$ 17.4294
12	C.O. Interface DS1 on OC- 3 - Working	257C	09	SONET Price Calculator	$ 148.4500
13	C.O. Interface DS1 on OC- 3+ - Mux & Protect	257C	06	SONET Price Calculator	$ 60.9742
14	C.O. Interface DS1 on OC- 3+ - Working	257C	03	SONET Price Calculator	$ 17.4294
15	C.O. Interface DS1 on OC- 3+ - Working	257C	09	SONET Price Calculator	$ 137.9500
16	C.O. Interface DS1 on OC-12 - Mux & Protect	257C	03	SONET Price Calculator	$ 8.3929
17	C.O. Interface DS1 on OC-12 - Mux & Protect	257C	06	SONET Price Calculator	$ 255.6019
18	C.O. Interface DS1 on OC-12 - Working	257C	03	SONET Price Calculator	$ 17.4294
19	C.O. Interface DS1 on OC-12 - Working	257C	09	SONET Price Calculator	$ 148.4500
20	C.O. Node - OC- 3	257C	03	SONET Price Calculator	$ 12.5726
21	C.O. Node - OC- 3	257C	06	SONET Price Calculator	$ 122.1690
22	C.O. Node - OC- 3+	257C	03	SONET Price Calculator	$ 17.5424
23	C.O. Node - OC- 3+	257C	06	SONET Price Calculator	$ 158.8631
24	C.O. Node - OC-12	257C	03	SONET Price Calculator	$ 6.8107
25	C.O. Node - OC-12	257C	06	SONET Price Calculator	$ 84.5278
26	C.P. Interface DS1 on OC- 3 - Mux & Protect	257C	22	SONET Price Calculator	$ 66.3749
27	C.P. Interface DS1 on OC- 3 - Working	257C	19	SONET Price Calculator	$ 17.4294
28	C.P. Interface DS1 on OC- 3 - Working	257C	25	SONET Price Calculator	$ 148.4500
29	C.P. Interface DS1 on OC- 3+ - Mux & Protect	257C	22	SONET Price Calculator	$ 60.9742
30	C.P. Interface DS1 on OC- 3+ - Working	257C	19	SONET Price Calculator	$ 17.4294
31	C.P. Interface DS1 on OC- 3+ - Working	257C	25	SONET Price Calculator	$ 137.9500
32	C.P. Interface DS1 on OC-12 - Mux & Protect	257C	19	SONET Price Calculator	$ 8.3929
33	C.P. Interface DS1 on OC-12 - Mux & Protect	257C	22	SONET Price Calculator	$ 255.6019
34	C.P. Interface DS1 on OC-12 - Working	257C	19	SONET Price Calculator	$ 17.4294
35	C.P. Interface DS1 on OC-12 - Working	257C	25	SONET Price Calculator	$ 148.4500
36	C.P. Node - OC- 3	257C	19	SONET Price Calculator	$ 12.5726
37	C.P. Node - OC- 3	257C	22	SONET Price Calculator	$ 122.1690
38	C.P. Node - OC- 3+	257C	19	SONET Price Calculator	$ 17.5424
39	C.P. Node - OC- 3+	257C	22	SONET Price Calculator	$ 158.8631
40	C.P. Node - OC-12	257C	19	SONET Price Calculator	$ 6.8107
41	C.P. Node - OC-12	257C	22	SONET Price Calculator	$ 84.5278
42	Data Communications - OC- 3	257C	15	SONET Price Calculator	$ 12.7904
43	Data Communications - OC-12	257C	15	SONET Price Calculator	$ 3.9018
44	Hub Interface DS1 on OC- 3 - Mux & Protect	257C	40	SONET Price Calculator	$ 66.3749
45	Hub Interface DS1 on OC- 3 - Working	257C	37	SONET Price Calculator	$ 17.4294
46	Hub Interface DS1 on OC- 3 - Working	257C	43	SONET Price Calculator	$ 148.4500
47	Hub Interface STS-1 on OC- 3	257C	37	SONET Price Calculator	$ 8.7533
48	Hub Interface STS-1 on OC- 3	257C	43	SONET Price Calculator	$ 85.8537
49	Hub Interface STS-1 on OC-12	257C	37	SONET Price Calculator	$ 8.7533
50	Hub Interface STS-1 on OC-12	257C	43	SONET Price Calculator	$ 57.0437
51	Hub Node - OC- 3	257C	37	SONET Price Calculator	$ 12.5726
52	Hub Node - OC- 3	257C	40	SONET Price Calculator	$ 122.1690
53	Hub Node - OC-12	257C	37	SONET Price Calculator	$ 6.8107
54	Hub Node - OC-12	257C	40	SONET Price Calculator	$ 84.5278
55					
56					

	A	B	C	D	E
1	Tennessee				
2	RECURRING INPUTS				
3	Study Period: 2000-2002				
4					
5	Element #: A.12.5				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
57	Aerial Fiber - Per Wgtd Fiber Mile - OC- 3	822C	00	SONET Price Calculator	$ 1.0323
58	Aerial Fiber - Per Wgtd Fiber Mile - OC-12	822C	00	SONET Price Calculator	$ 0.3149
59	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	845C	00	SONET Price Calculator	$ 0.2831
60	Buried Fiber - Per Wgtd Fiber Mile - OC-12	845C	00	SONET Price Calculator	$ 0.0864
61	UG Fiber - Per Wgtd Fiber Mile - OC- 3	85C	00	SONET Price Calculator	$ 0.8625
62	UG Fiber - Per Wgtd Fiber Mile - OC-12	85C	00	SONET Price Calculator	$ 0.2631
63					
64	Aerial Ca. - 26 Gauge Copper per pair foot	22C	00	Loop Model	$ 0.004225
65	Buried Ca. - 26 Gauge Copper per pair foot	45C	00	Loop Model	$ 0.004600
66	Underground Ca. - 26 Gauge Copper per pair foot	5C	00	Loop Model	$ 0.003517
67					
68	Distribution to Code - Aerial Cable	22C	00	Loop Model	0.239
69	Distribution to Code - Buried Cable	45C	00	Loop Model	0.239
70	Distribution to Code - Underground Cable	5C	00	Loop Model	0.522
71					
72	Line Repeater - Addressable Rptr.	257C	44	Network	
73	Line Repeater - App. Case	257C	37	Network	
74					
75	C.O. Repeater - Shelf	257C	03	Network	
76	C.O. Repeater	257C	09	Network	
77					
78	DS1 LIU Card	257C	43	Product Team	$ 230.0000
79					
80					
81					
82	Aerial Ca - Metal - Bldg. Entrance per pair foot	12C	00	Loop Model	$ 0.0047
83	DSX Panel per termination	257C	03	Network	$ 0.5979
84					
85	Average Bldg. Entrance Length (Ft)			Loop Model	250
86	Route to Air Ratio (RTA)			TIRKS Data Base	1.34
87	Copper Utilization - Distribution			Network	0.651
88	State Average Air 1/2 miles			CRIS Data Base	2.7
89	Ratio Of Circumference To The Diameter			PI	3.14
90	Of A Circle				
91	Number of Strands per Ring			Network	3
92					
93	Design 1 Probability of Occurrence			Network	38.89%
94	Design 2 Probability of Occurrence			Network	16.67%
95	Design 3 Probability of Occurrence			Network	27.78%
96	Design 4 Probability of Occurrence			Network	16.67%
97					100%
98					
99	Probability of CO to Hub - Design 3 & 4			Network	50%
100	Probability of Hub to CP - Design 3 & 4			Network	50%
101					100%

	A	B	C	D	E	F	G	H	I	J	K	L
1	Tennessee											
2	SUMMARY											
3	Study Period: 2000-2002											
4												
5	Element #: A.12.5											
6												
7	**ELECTRONICS INVESTMENT**											
8												
9	FRC	257C	257C	257C	257C	257C	257C	257C	257C	257C	257C	
10	Sub FRC	03	06	09	15	19	22	25	37	40	43	Source
11												
12	DS1 LIU Card										$ 230.0000	WP 301, Line 9
13	Design 1	$ 11.6678	$ 73.3247	$ 57.7322	$ 4.9742	$ 43.2744	$ 272.4496	$ 57.7322				WP 321, Lines 54 thru 60
14	Design 2	$ 5.8298	$ 36.6469	$ 22.9963	$ 0.6504	$ 22.6917	$ 146.4684	$ 22.9963				WP 331, Lines 54 thru 60
15	Design 3	$ 89.8735	$ 52.3775	$ 237.5343	$ 3.5532				$ 22.3052	$ 188.1317	$ 41.2394	WP 341, Lines 55 thru 61
16	Design 4	$ 5.4399	$ 56.6996	$ 24.7466	$ 0.6504				$ 6.1496	$ 34.4564	$ 23.8210	WP 351A, Lines 51 thru 57
17	Design 4					$ 18.5493	$ 116.7841	$ 24.7466				WP 351B, Lines 36 thru 38
18	TOTAL	$ 112.8110	$ 219.0487	$ 343.0094	$ 9.8282	$ 84.5154	$ 535.7021	$ 105.4751	$ 28.4548	$ 222.5880	$ 295.0604	
19												
20												
21												
22	FRC	22C	45C	5C	822C	845C	85C					
23	Sub FRC	00	00	00	00	00	00					
24												
25												
26	Design 1				$ 6.8414	$ 1.8763	$ 5.7156					WP 322, Lines 41 thru 43
27	Design 2				$ 0.8946	$ 0.2454	$ 0.7474					WP 332, Lines 41 thru 43
28	Design 3	$ 2.0579	$ 2.2405	$ 3.7414	$ 1.2217	$ 0.3351	$ 1.0207					WP 342, Lines 51 thru 56
29	Design 4				$ 1.9136	$ 0.5248	$ 1.5987					WP 352, Lines 60 thru 62
30	TOTAL	$ 2.0579	$ 2.2405	$ 3.7414	$ 10.8714	$ 2.9816	$ 9.0824					

	A	B	C	D	E
1	Tennessee				
2	DS1 LIU CARD				
3	Study Period: 2000-2002				
4					
5	Element #: A.12.5				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8					
9	DS1 LIU Card	257C	43	Input Sheet Line 78	$ 230.000

	A	B	C	D	E
1	Tennessee				
2	COPPER ELECTRONICS				
3	Study Period: 2000-2002				
4					
5	Element #: A.12.5				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8					
9	C.O. Repeater - Shelf	257C	03	Input Sheet Line 75	[redacted]
10	4-Wire Capacity				
11	Copper Utilization - Distribution			Input Sheet Line 87	0.651
12	C.O. Repeater - Shelf (Total per ckt) (Utililized)	257C	03	Line 9 / Line 10 / Line 11	$ 290.7615
13					
14	C.O. Repeater	257C	09	Input Sheet Line 76	[redacted]
15	4-Wire Capacity				
16	Copper Utilization - Distribution			Input Sheet Line 87	0.651
17	C.O. Repeater - (Total per ckt)	257C	09	Line 14 / Line 15 / Line 16	$ 706.6052
18					
19					
20					
21	DSX Panel per termination	257C	03	Input Sheet Line 83	$ 0.5979
22	Copper Utilization - Distribution			Input Sheet Line 87	0.651
23	DSX Panel per termination (Utilized)	257C	03	Line 21 / Line 22	$ 0.9184
24					
25					
26					
27	**SUMMARY BY FRC**				
28	Digt Circ - Pair Gain - C.O.- Hardwired	257C	03	Lines 12, 23	$ 291.6799
29	Digt Circ - Pair Gain - C.O. - Def. Plug-in	257C	09	Line 17	$ 706.6052
30	TOTAL			Sum Lines 28, 29	$ 998.2851

001301

	A	B	C	D	E
1	Tennessee				
2	COPPER TRANSPORT				
3	Study Period: 2000-2002				
4					
5	Element #: A.12.5				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**MATERIAL PER MILE PER STRAND**				
9	Aerial Ca. - 26 Gauge Copper per pair foot	22C	00	Input Sheet Line 64	$ 0.004225
10	Buried Ca. - 26 Gauge Copper per pair foot	45C	00	Input Sheet Line 65	$ 0.004600
11	Underground Ca. - 26 Gauge Copper per pair foo	5C	00	Input Sheet Line 66	$ 0.003517
12					
13	**MATERIAL PER MILE PER STRAND - 4W CAPACITY**				
14	Aerial Ca. - 26 Gauge Copper per pair foot	22C	00	Line 9 * 2	$ 0.008450
15	Buried Ca. - 26 Gauge Copper per pair foot	45C	00	Line 10 * 2	$ 0.009200
16	Underground Ca. - 26 Gauge Copper per pair foo	5C	00	Line 11 * 2	$ 0.007034
17					
18	Number of Feet in 1/2 Mile				2640
19					
20	**MATERIAL PER MILE PER STRAND - 4W CAPACITY PER HALF MILE**				
21	Aerial Ca. - 26 Gauge Copper	22C	00	Line 18 * Line 14	$ 22.3080
22	Buried Ca. - 26 Gauge Copper	45C	00	Line 18 * Line 15	$ 24.2880
23	Underground Ca. - 26 Gauge Copper	5C	00	Line 18 * Line 16	$ 18.5698
24					
25	Distribution to Code - Aerial Cable	22C	00	Input Sheet Line 68	0.2390
26	Distribution to Code - Buried Cable	45C	00	Input Sheet Line 69	0.2390
27	Distribution to Code - Underground Cable	5C	00	Input Sheet Line 70	0.5220
28					
29	**WEIGHTED COPPER PER HALF MILE - ROUTE**				
30	Aerial Ca. - 26 Gauge Copper	22C	00	Line 21 * Line 25	$ 5.3316
31	Buried Ca. - 26 Gauge Copper	45C	00	Line 22 * Line 26	$ 5.8048
32	Underground Ca. - 26 Gauge Copper	5C	00	Line 23 * Line 27	$ 9.6934
33					
34	Route to Air Ratio (RTA)			Input Sheet Line 86	1.34
35	Copper Utilization - Distribution			Input Sheet Line 87	0.651
36					
37	**WEIGHTED COPPER PER HALF MILE - AIR (UTILIZED)**				
38	Aerial Ca. - 26 Gauge Copper	22C	00	Line 30 * Line 34 / Line 35	$ 10.9744
39	Buried Ca. - 26 Gauge Copper	45C	00	Line 31 * Line 34 / Line 35	$ 11.9485
40	Underground Ca. - 26 Gauge Copper	5C	00	Line 32 * Line 34 / Line 35	$ 19.9527

	A	B	C	D	E
1	Tennessee				
2	DESIGN 1 - ELECTRONICS				
3	Study Period: 2000-2002				
4					
5	Element #: A.12.5				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**CENTRAL OFFICE**				
9					
10	C.O. Interface DS1 on OC- 3 - Working	257C	03	Input Sheet Line 11	$ 17.4294
11	C.O. Interface DS1 on OC- 3 - Working	257C	09	Input Sheet Line 12	$ 148.4500
12					
13	C.O. Interface DS1 on OC- 3 - Mux & Protect	257C	06	Input Sheet Line 10	$ 66.3749
14					
15	C.O. Node - OC- 3	257C	03	Input Sheet Line 20	$ 12.5726
16	C.O. Node - OC- 3	257C	06	Input Sheet Line 21	$ 122.1690
17					
18	Data Communications - OC- 3	257C	15	Input Sheet Line 42	$ 12.7904
19	TOTAL			Sum Lines 10 thru 18	$ 379.7862
20					
21	**POINT OF TERMINATION (RT)**				
22					
23	C.P. Interface DS1 on OC- 3 - Working	257C	19	Input Sheet Line 27	$ 17.4294
24	C.P. Interface DS1 on OC- 3 - Working	257C	25	Input Sheet Line 28	$ 148.4500
25					
26	C.P. Interface DS1 on OC- 3 - Mux & Protect	257C	22	Input Sheet Line 26	$ 66.3749
27					
28	Battery Back-up - OC- 3 (CP)	257C	19	Input Sheet Line 8	$ 30.9814
29	Battery Back-up - OC- 3 (CP)	257C	22	Input Sheet Line 9	$ 23.3449
30					
31	C.P. Node - OC- 3	257C	19	Input Sheet Line 36	$ 12.5726
32	5 NODES	257C	19	Line 31 * 5	$ 62.8630
33					
34	C.P. Node - OC- 3	257C	22	Input Sheet Line 37	$ 122.1690
35	5 NODES	257C	22	Line 34 * 5	$ 610.8449
36	TOTAL			Sum Lines 23, 24, 26, 28, 29, 32, 35	$ 960.2885
37					
38					
39	**SUMMARY BY FRC**				
40					
41	Digtl Circ C.O. - Hardwired	257C	03	Sum Lines 10, 15	$ 30.0020
42	Digtl Circ C.O. - Com. Plug-in	257C	06	Sum Lines 13, 16	$ 188.5438
43	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 11	$ 148.4500
44	Digtl Circ C.O. - Combined	257C	15	Line 18	$ 12.7904
45	Digtl Circ Prem - Hardwired	257C	19	Sum Lines 23, 28, 32	$ 111.2738
46	Digtl Circ Prem - Com. Plug-in	257C	22	Sum Lines 26, 29, 35	$ 700.5648
47	Digtl Circ Prem - Def. Plug-in	257C	25	Line 24	$ 148.4500
48	TOTAL			Sum Lines 41 Thru 47	$ 1,340.0747
49					
50	Design 1 Probability of Occurrence			Input Sheet Line 93	38.89%
51					
52	**SUMMARY BY FRC - WEIGHTED**				
53					
54	Digtl Circ C.O. - Hardwired	257C	03	Line 50 * Line 41	$ 11.6678
55	Digtl Circ C.O. - Com. Plug-in	257C	06	Line 50 * Line 42	$ 73.3247
56	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 50 * Line 43	$ 57.7322
57	Digtl Circ C.O. - Combined	257C	15	Line 50 * Line 44	$ 4.9742
58	Digtl Circ Prem - Hardwired	257C	19	Line 50 * Line 45	$ 43.2744
59	Digtl Circ Prem - Com. Plug-in	257C	22	Line 50 * Line 46	$ 272.4496
60	Digtl Circ Prem - Def. Plug-in	257C	25	Line 50 * Line 47	$ 57.7322
61	TOTAL			Sum Lines 54 Thru 60	$ 521.1551

001303

	A	B	C	D	E
1	Tennessee				
2	DESIGN 1 - TRANSPORT				
3	Study Period: 2000-2002				
4					
5	Element #: A.12.5				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**MATERIAL PER MILE PER STRAND (ROUTE)**				
9					
10	Aerial Fiber - Per Wgtd Fiber Mile - OC- 3	822C	00	Input Sheet Line 57	$ 1.0323
11	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	845C	00	Input Sheet Line 59	$ 0.2831
12	UG Fiber - Per Wgtd Fiber Mile - OC- 3	85C	00	Input Sheet Line 61	$ 0.8625
13					
14	**MATERIAL PER 1/2 MILE PER STRAND (ROUTE)**				
15					
16	Aerial Fiber - Per Wgtd Fiber Mile - OC- 3	822C	00	Line 10 / 2	$ 0.5162
17	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	845C	00	Line 11 / 2	$ 0.1416
18	UG Fiber - Per Wgtd Fiber Mile - OC- 3	85C	00	Line 12 / 2	$ 0.4312
19					
20	Number of Strands per Ring			Input Sheet Line 91	3
21					
22	Route to Air Ratio (RTA)			Input Sheet Line 86	1.34
23					
24	**WEIGHTED MATERIAL PER 1/2 MILE (AIR)**				
25					
26	Aerial Fiber - Per Wgtd Fiber Mile - OC- 3	822C	00	Line 16 * Line 20 * Line 22	$ 2.0750
27	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	845C	00	Line 17 * Line 20 * Line 22	$ 0.5691
28	UG Fiber - Per Wgtd Fiber Mile - OC- 3	85C	00	Line 18 * Line 20 * Line 22	$ 1.7335
29					
30	Design 1 Probability of Occurrence			Input Sheet Line 93	38.89%
31					
32	State Average Air 1/2 miles			Input Sheet Line 88	2.7
33					
34	Ratio Of Circumference To The Diameter			Input Sheet Line 89	3.14
35	Of A Circle				
36					
37	STATE AVERAGE AIR 1/2 MILES - FIBER RING			Line 32 * Line 34	8.478
38					
39	**TOTAL DESIGN 1 TANSPORT MATERIAL - WEIGHTED**				
40					
41	Aerial Fiber - Per Wgtd Fiber Mile - OC- 3	822C	00	Line 26 * Line 30 * Line 37	$ 6.8414
42	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	845C	00	Line 27 * Line 30 * Line 37	$ 1.8763
43	UG Fiber - Per Wgtd Fiber Mile - OC- 3	85C	00	Line 28 * Line 30 * Line 37	$ 5.7156

	A	B	C	D	E
1	Tennessee				
2	DESIGN 2 - ELECTRONICS				
3	Study Period: 2000-2002				
4					
5	Element #: A.12.5				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**CENTRAL OFFICE**				
9					
10	C.O. Interface DS1 on OC- 3+ - Working	257C	03	Input Sheet Line 14	$ 17.4294
11	C.O. Interface DS1 on OC- 3+ - Working	257C	09	Input Sheet Line 15	$ 137.9500
12					
13	C.O. Interface DS1 on OC- 3+ - Mux & Protect	257C	06	Input Sheet Line 13	$ 60.9742
14					
15	C.O. Node - OC- 3+	257C	03	Input Sheet Line 22	$ 17.5424
16	C.O. Node - OC- 3+	257C	06	Input Sheet Line 23	$ 158.8631
17					
18	Data Communications - OC-12	257C	15	Input Sheet Line 43	$ 3.9018
19	TOTAL			Sum Lines 10 thru 18	$ 396.6609
20					
21	**POINT OF TERMINATION (RT)**				
22					
23	C.P. Interface DS1 on OC- 3+ - Working	257C	19	Input Sheet Line 30	$ 17.4294
24	C.P. Interface DS1 on OC- 3+ - Working	257C	25	Input Sheet Line 31	$ 137.9500
25					
26	C.P. Interface DS1 on OC- 3+ - Mux & Protect	257C	22	Input Sheet Line 29	$ 60.9742
27					
28	Battery Back-up - OC- 3 (CP)	257C	19	Input Sheet Line 8	$ 30.9814
29	Battery Back-up - OC- 3 (CP)	257C	22	Input Sheet Line 9	$ 23.3449
30					
31	C.P. Node - OC- 3+	257C	19	Input Sheet Line 38	$ 17.5424
32	5 NODES	257C	19	Line 31 * 5	$ 87.7122
33					
34	C.P. Node - OC- 3+	257C	22	Input Sheet Line 39	$ 158.8631
35	5 NODES	257C	22	Line 34 * 5	$ 794.3153
36	TOTAL			Sum Lines 23, 24, 26, 28, 29, 32, 35	$ 1,152.7074
37					
38					
39	**SUMMARY BY FRC**				
40					
41	Digtl Circ C.O. - Hardwired	257C	03	Sum Lines 10, 15	$ 34.9718
42	Digtl Circ C.O. - Com. Plug-in	257C	06	Sum Lines 13, 16	$ 219.8372
43	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 11	$ 137.9500
44	Digtl Circ C.O. - Combined	257C	15	Line 18	$ 3.9018
45	Digtl Circ Prem - Hardwired	257C	19	Sum Lines 23, 28, 32	$ 136.1230
46	Digtl Circ Prem - Com. Plug-in	257C	22	Sum Lines 26, 29, 35	$ 878.6344
47	Digtl Circ Prem - Def. Plug-in	257C	25	Line 24	$ 137.9500
48	TOTAL			Sum Lines 41 Thru 47	$ 1,549.3683
49					
50	Design 2 Probability of Occurrence			Input Sheet Line 94	16.67%
51					
52	**SUMMARY BY FRC - WEIGHTED**				
53					
54	Digtl Circ C.O. - Hardwired	257C	03	Line 50 * Line 41	$ 5.8298
55	Digtl Circ C.O. - Com. Plug-in	257C	06	Line 50 * Line 42	$ 36.6469
56	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 50 * Line 43	$ 22.9963
57	Digtl Circ C.O. - Combined	257C	15	Line 50 * Line 44	$ 0.6504
58	Digtl Circ Prem - Hardwired	257C	19	Line 50 * Line 45	$ 22.6917
59	Digtl Circ Prem - Com. Plug-in	257C	22	Line 50 * Line 46	$ 146.4684
60	Digtl Circ Prem - Def. Plug-in	257C	25	Line 50 * Line 47	$ 22.9963
61	TOTAL			Sum Lines 54 Thru 60	$ 258.2797

001305

	A	B	C	D	E
1	Tennessee				
2	DESIGN 2 - TRANSPORT				
3	Study Period: 2000-2002				
4					
5	Element #: A.12.5				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**MATERIAL PER MILE PER STRAND (ROUTE)**				
9					
10	Aerial Fiber - Per Wgtd Fiber Mile - OC-12	822C	00	Input Sheet Line 58	$ 0.3149
11	Buried Fiber - Per Wgtd Fiber Mile - OC-12	845C	00	Input Sheet Line 60	$ 0.0864
12	UG Fiber - Per Wgtd Fiber Mile - OC-12	85C	00	Input Sheet Line 62	$ 0.2631
13					
14	**MATERIAL PER 1/2 MILE PER STRAND (ROUTE)**				
15					
16	Aerial Fiber - Per Wgtd Fiber Mile - OC-12	822C	00	Line 10 / 2	$ 0.1575
17	Buried Fiber - Per Wgtd Fiber Mile - OC-12	845C	00	Line 11 / 2	$ 0.0432
18	UG Fiber - Per Wgtd Fiber Mile - OC-12	85C	00	Line 12 / 2	$ 0.1316
19					
20	Number of Strands per Ring			Input Sheet Line 91	3
21					
22	Route to Air Ratio (RTA)			Input Sheet Line 86	1.34
23					
24	**WEIGHTED MATERIAL PER 1/2 MILE (AIR)**				
25					
26	Aerial Fiber - Per Wgtd Fiber Mile - OC-12	822C	00	Line 16 * Line 20 * Line 22	$ 0.6330
27	Buried Fiber - Per Wgtd Fiber Mile - OC-12	845C	00	Line 17 * Line 20 * Line 22	$ 0.1736
28	UG Fiber - Per Wgtd Fiber Mile - OC-12	85C	00	Line 18 * Line 20 * Line 22	$ 0.5288
29					
30	Design 2 Probability of Occurrence			Input Sheet Line 94	16.67%
31					
32	State Average Air 1/2 miles			Input Sheet Line 88	2.7
33					
34	Ratio Of Circumference To The Diameter			Input Sheet Line 89	3.14
35	Of A Circle				
36					
37	STATE AVERAGE AIR 1/2 MILES - FIBER RING			Line 32 * Line 34	8.478
38					
39	**TOTAL DESIGN 2 TANSPORT MATERIAL - WEIGHTED**				
40					
41	Aerial Fiber - Per Wgtd Fiber Mile - OC-12	822C	00	Line 26 * Line 30 * Line 37	$ 0.8946
42	Buried Fiber - Per Wgtd Fiber Mile - OC-12	845C	00	Line 27 * Line 30 * Line 37	$ 0.2454
43	UG Fiber - Per Wgtd Fiber Mile - OC-12	85C	00	Line 28 * Line 30 * Line 37	$ 0.7474

	A	B	C	D	E
1	Tennessee				
2	DESIGN 3 - ELECTRONICS				
3	Study Period: 2000-2002				
4					
5	Element #: A.12.5				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**CENTRAL OFFICE**				
9	C.O. Interface DS1 on OC- 3 - Working	257C	03	Input Sheet Line 11	$ 17.4294
10	C.O. Interface DS1 on OC- 3 - Working	257C	09	Input Sheet Line 12	$ 148.4500
11	C.O. Interface DS1 on OC- 3 - Mux & Protect	257C	06	Input Sheet Line 10	$ 66.3749
12					
13	C.O. Node - OC- 3	257C	03	Input Sheet Line 20	$ 12.5726
14	C.O. Node - OC- 3	257C	06	Input Sheet Line 21	$ 122.1690
15					
16	Data Communications - OC- 3	257C	15	Input Sheet Line 42	$ 12.7904
17	TOTAL			Sum Lines 9 thru 16	$ 379.7862
18					
19	**REMOTE TERMINAL**				
20	DSX Panel per termination (Utilized)	257C	03	WP311, Line 23	$ 0.9184
21					
22					
23	**FIBER HUB**				
24	Hub Node - OC- 3	257C	37	Input Sheet Line 51	$ 12.5726
25	5 NODES	257C	37	Line 24 * 5	$ 62.8630
26	Hub Node - OC- 3	257C	40	Input Sheet Line 52	$ 122.1690
27	5 NODES	257C	40	Line 26 * 5	$ 610.8449
28					
29	DSX Panel per termination	257C	03	WP311, Line 34	$ 0.9184
30	2 PANELS			Line 29 * 2	$ 1.8369
31					
32	C.O. Repeater - Shelf (Total per ckt) (Utililized)	257C	03	WP311, Line 12	$ 290.7615
33	C.O. Repeater - (Total per ckt)	257C	09	WP311, Line 17	$ 706.6052
34					
35	Hub Interface DS1 on OC- 3 - Mux & Protect	257C	40	Input Sheet Line 44	$ 66.3749
36	Hub Interface DS1 on OC- 3 - Working	257C	37	Input Sheet Line 45	$ 17.4294
37	Hub Interface DS1 on OC- 3 - Working	257C	43	Input Sheet Line 46	$ 148.4500
38	TOTAL			Sum Lines 25, 27, 30, 32, 33, 35, 36, 37	$ 1,905.1657
39					
40					
41	**SUMMARY BY FRC**				
42	Digtl Circ C.O. - Hardwired	257C	03	Sum Lines 9, 13, 20, 29, 32	$ 323.5188
43	Digtl Circ C.O. - Com. Plug-in	257C	06	Sum Lines 11, 14	$ 188.5438
44	Digtl Circ C.O. - Def. Plug-in	257C	09	Sum Lines 10, 33	$ 855.0552
45	Digtl Circ C.O. - Combined	257C	15	Line 16	$ 12.7904
46	Digtl Circ Remote - Hardwired	257C	37	Sum Lines 25, 36	$ 80.2924
47	Digtl Circ Remote - Com. Plug-in	257C	40	Sum Lines 27, 35	$ 677.2198
48	Digtl Circ Remote - Def. Plug-in	257C	43	Line 37	$ 148.4500
49	TOTAL			Sum Lines 42 Thru 48	$ 2,285.8704
50					
51					
52	Design 3 Probability of Occurrence			Input Sheet Line 95	27.78%
53					
54	**SUMMARY BY FRC - WEIGHTED**				
55	Digtl Circ C.O. - Hardwired	257C	03	Line 52 * Line 42	$ 89.8735
56	Digtl Circ C.O. - Com. Plug-in	257C	06	Line 52 * Line 43	$ 52.3775
57	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 52 * Line 44	$ 237.5343
58	Digtl Circ C.O. - Combined	257C	15	Line 52 * Line 45	$ 3.5532
59	Digtl Circ Remote - Hardwired	257C	37	Line 52 * Line 46	$ 22.3052
60	Digtl Circ Remote - Com. Plug-in	257C	40	Line 52 * Line 47	$ 188.1317
61	Digtl Circ Remote - Def. Plug-in	257C	43	Line 52 * Line 48	$ 41.2394
62	TOTAL			Sum Lines 55 Thru 61	$ 635.0148

001307

	A	B	C	D	E
1	Tennessee				
2	DESIGN 3 - TRANSPORT				
3	Study Period: 2000-2002				
4					
5	Element #: A.12.5				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**CO TO HUB TANSPORT BY FRC**				
9	**WEIGHTED MATERIAL PER 1/2 MILE**				
10	Aerial Fiber - Per Wgtd Fiber Mile - OC- 3	822C	00	WP 322 Line 26	$ 2.0750
11	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	845C	00	WP 322 Line 27	$ 0.5691
12	UG Fiber - Per Wgtd Fiber Mile - OC- 3	85C	00	WP 322 Line 28	$ 1.7335
13					
14	Probability of Occurrence			Input Sheet Line 99	50%
15					
16	State Average Air 1/2 miles			Input Sheet Line 88	2.7
17					
18	Ratio Of Circumference To The Diameter			Input Sheet Line 89	3.14
19	Of A Circle				
20					
21	Weighted 1/2 Mile Distance			Line 14 * Line 16 * Line 18	4.2390
22					
23	**MATERIAL PER 1/2 MILE - WEIGHTED**				
24	Aerial Fiber - OC- 3	822C	00	Line 10 * Line 21 * 1/2	$ 4.3979
25	Buried Fiber - OC- 3	845C	00	Line 11 * Line 21 * 1/2	$ 1.2062
26	UG Fiber - OC- 3	85C	00	Line 12 * Line 21 * 1/2	$ 3.6742
27					
28					
29	**HUB TO CP TANSPORT BY FRC**				
30	**WEIGHTED MATERIAL PER 1/2 MILE**				
31	Aerial Ca. - 26 Gauge Copper	22C	00	WP 312 Line 38	$ 10.9744
32	Buried Ca. - 26 Gauge Copper	45C	00	WP 312 Line 39	$ 11.9485
33	Underground Ca. - 26 Gauge Copper	5C	00	WP 312 Line 40	$ 19.9527
34					
35	Probability of Occurrence			Input Sheet Line 100	50%
36					
37	State Average Air 1/2 miles			Input Sheet Line 88	2.7
38					
39	Weighted 1/2 Mile Distance			Line 35 * Line 37	1.35
40					
41	**MATERIAL PER 1/2 MILE - WEIGHTED**				
42	Aerial Ca. - 26 Gauge Copper	22C	00	Line 31 * Line 39 * 1/2	$ 7.4077
43	Buried Ca. - 26 Gauge Copper	45C	00	Line 32 * Line 39 * 1/2	$ 8.0652
44	Underground Ca. - 26 Gauge Copper	5C	00	Line 33 * Line 39 * 1/2	$ 13.4680
45					
46					
47	Design 3 Probability of Occurrence			Input Sheet Line 95	27.78%
48					
49	**TOTAL DESIGN 3 TRANSPORT MATERIAL - WEIGHTED**				
50					
51	Aerial Fiber - OC- 3	822C	00	Line 24 * Line 47	$ 1.2217
52	Buried Fiber - OC- 3	845C	00	Line 25 * Line 47	$ 0.3351
53	UG Fiber - OC- 3	85C	00	Line 26 * Line 47	$ 1.0207
54	Aerial Ca. - 26 Gauge Copper	22C	00	Line 42 * Line 47	$ 2.0579
55	Buried Ca. - 26 Gauge Copper	45C	00	Line 43 * Line 47	$ 2.2405
56	Underground Ca. - 26 Gauge Copper	5C	00	Line 44 * Line 47	$ 3.7414

001308

	A	B	C	D	E
1	Tennessee				
2	DESIGN 4 - C.O. & HUB - ELECTRONICS				
3	Study Period: 2000-2002				
4					
5	Element #: A.12.5				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**CENTRAL OFFICE**				
9	C.O. Interface DS1 on OC-12 - Working	257C	03	Input Sheet Line 18	$ 17.4294
10	C.O. Interface DS1 on OC-12 - Working	257C	09	Input Sheet Line 19	$ 148.4500
11					
12	C.O. Interface DS1 on OC-12 - Mux & Protect	257C	03	Input Sheet Line 16	$ 8.3929
13	C.O. Interface DS1 on OC-12 - Mux & Protect	257C	06	Input Sheet Line 17	$ 255.6019
14					
15	C.O. Node - OC-12	257C	03	Input Sheet Line 24	$ 6.8107
16	C.O. Node - OC-12	257C	06	Input Sheet Line 25	$ 84.5278
17					
18	Data Communications - OC-12	257C	15	Input Sheet Line 43	$ 3.9018
19	TOTAL			Sum Lines 9 thru 18	$ 525.1145
20					
21					
22	**FIBER HUB**				
23	Hub Node - OC-12	257C	37	Input Sheet Line 53	$ 6.8107
24	Hub Node - OC-12	257C	40	Input Sheet Line 54	$ 84.5278
25					
26	Hub Interface STS-1 on OC-12	257C	37	Input Sheet Line 49	$ 8.7533
27	Hub Interface STS-1 on OC-12	257C	43	Input Sheet Line 50	$ 57.0437
28					
29	Hub Interface STS-1 on OC- 3	257C	37	Input Sheet Line 47	$ 8.7533
30	Hub Interface STS-1 on OC- 3	257C	43	Input Sheet Line 48	$ 85.8537
31					
32	Hub Node - OC- 3	257C	37	Input Sheet Line 51	$ 12.5726
33	Hub Node - OC- 3	257C	40	Input Sheet Line 52	$ 122.1690
34	TOTAL			Sum Lines 23 thru 33	$ 386.4840
35					
36					
37	**SUMMARY BY FRC**				
38					
39	Digtl Circ C.O. - Hardwired	257C	03	Sum Lines 9, 12, 15	$ 32.6330
40	Digtl Circ C.O. - Com. Plug-in	257C	06	Sum Lines 13, 16	$ 340.1297
41	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 10	$ 148.4500
42	Digtl Circ C.O. - Combined	257C	15	Line 18	$ 3.9018
43	Digtl Circ Remote - Com. Hardwired	257C	37	Sum Lines 23, 26, 29, 32	$ 36.8899
44	Digtl Circ Remote - Com. Plug-in	257C	40	Sum Lines 24, 33	$ 206.6968
45	Digtl Circ Remote - Def. Plug-in	257C	43	Sum Lines 27, 30	$ 142.8973
46	TOTAL			Sum Lines 39 thru 45	$ 911.5985
47					
48	**SUMMARY BY FRC - WEIGHTED**				
49	Design 4 Probability of Occurrence			Input Sheet Line 96	16.67%
50					
51	Digtl Circ C.O. - Hardwired	257C	03	Line 49 * Line 39	$ 5.4399
52	Digtl Circ C.O. - Com. Plug-in	257C	06	Line 49 * Line 40	$ 56.6996
53	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 49 * Line 41	$ 24.7466
54	Digtl Circ C.O. - Combined	257C	15	Line 49 * Line 42	$ 0.6504
55	Digtl Circ Remote - Com. Hardwired	257C	37	Line 49 * Line 43	$ 6.1496
56	Digtl Circ Remote - Com. Plug-in	257C	40	Line 49 * Line 44	$ 34.4564
57	Digtl Circ Remote - Def. Plug-in	257C	43	Line 49 * Line 45	$ 23.8210
58	TOTAL			Sum Lines 51 thru 57	$ 152.1302

001309

	A	B	C	D	E
1	Tennessee				
2	DESIGN 4 - CUSTOMER PREMISES - ELECTRONICS				
3	Study Period: 2000-2002				
4					
5	Element #: A.12.5				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**POINT OF TERMINATION (RT)**				
9	C.P. Node - OC- 3	257C	19	Input Sheet Line 36	$ 12.5726
10	5 NODES	257C	19	Line 9 * 5	$ 62.8630
11					
12	C.P. Node - OC- 3	257C	22	Input Sheet Line 37	$ 122.1690
13	5 NODES	257C	22	Line 12 * 5	$ 610.8449
14					
15	C.P. Interface DS1 on OC- 3 - Working	257C	19	Input Sheet Line 27	$ 17.4294
16	C.P. Interface DS1 on OC- 3 - Working	257C	25	Input Sheet Line 28	$ 148.4500
17					
18	C.P. Interface DS1 on OC- 3 - Mux & Protect	257C	22	Input Sheet Line 26	$ 66.3749
19					
20	Battery Back-up - OC- 3 (CP)	257C	19	Input Sheet Line 8	$ 30.9814
21	Battery Back-up - OC- 3 (CP)	257C	22	Input Sheet Line 9	$ 23.3449
22					
23	TOTAL			Sum Lines 10, 13 thru 21	$ 960.2885
24					
25	**SUMMARY BY FRC**				
26					
27	Digtl Circ C.O. - Def. Plug-in	257C	19	Sum Lines 10, 15, 20	$ 111.2738
28	Digtl Circ Prem - Com. Plug-in	257C	22	Sum Lines 13, 18. 21	$ 700.5648
29	Digtl Circ Prem - Def. Plug-in	257C	25	Line 16	$ 148.4500
30	TOTAL			Sum Lines 27 thru 29	$ 960.2885
31					
32	Design 4 Probability of Occurrence			Input Sheet Line 96	16.67%
33					
34	**SUMMARY BY FRC - WEIGHTED**				
35					
36	Digtl Circ C.O. - Def. Plug-in	257C	19	Line 32 * Line 27	$ 18.5493
37	Digtl Circ Prem - Com. Plug-in	257C	22	Line 32 * Line 28	$ 116.7841
38	Digtl Circ Prem - Def. Plug-in	257C	25	Line 32 * Line 29	$ 24.7466
39	TOTAL			Sum Lines 36 thru 38	$ 160.0801

	A	B	C	D	E
1	Tennessee				
2	DESIGN 4 - TRANSPORT				
3	Study Period: 2000-2002				
4					
5	Element #: A.12.5				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**CENTRAL OFFICE TO FIBER HUB OC-12**				
9	Aerial Fiber - Per Wgtd Fiber Mile - OC-12	822C	00	Input Sheet Line 58	$ 0.3149
10	Buried Fiber - Per Wgtd Fiber Mile - OC-12	845C	00	Input Sheet Line 60	$ 0.0864
11	UG Fiber - Per Wgtd Fiber Mile - OC-12	85C	00	Input Sheet Line 62	$ 0.2631
12					
13	Number of Strands per Ring			Input Sheet Line 91	3
14	Route to Air Ratio (RTA)			Input Sheet Line 86	1.34
15					
16	TOTAL CO TO HUB OC-12 AIR MILES				
17	Aerial Fiber - OC-12	822C	00	Line 9 * Line 13 * Line 14 * 1/2	$ 0.6330
18	Buried Fiber - OC-12	845C	00	Line 10 * Line 13 * Line 14 * 1/2	$ 0.1736
19	UG Fiber - OC-12	85C	00	Line 11 * Line 13 * Line 14 * 1/2	$ 0.5288
20					
21	Probability of CO to Hub - Design 4			Input Sheet Line 99	50%
22					
23	WEIGHTED TOTAL CO TO HUB OC-12 AIR MILES				
24	Aerial Fiber - OC-12	822C	00	Line 17 * Line 21	$ 0.3165
25	Buried Fiber - OC-12	845C	00	Line 18 * Line 21	$ 0.0868
26	UG Fiber - OC-12	85C	00	Line 19 * Line 21	$ 0.2644
27					
28					
29	**FIBER HUB TO CUSTOMER PREMISES OC-3**				
30	Aerial Fiber - Per Wgtd Fiber Mile - OC- 3	822C	00	Input Sheet Line 57	$ 1.0323
31	Buried Fiber - Per Wgtd Fiber Mile - OC- 3	845C	00	Input Sheet Line 59	$ 0.2831
32	UG Fiber - Per Wgtd Fiber Mile - OC- 3	85C	00	Input Sheet Line 61	$ 0.8625
33					
34	Number of Strands per Ring			Input Sheet Line 91	3
35	Route to Air Ratio (RTA)			Input Sheet Line 86	1.34
36					
37	TOTAL CO TO HUB OC-3 AIR MILES				
38	Aerial Fiber - OC-3	822C	00	Line 30 * Line 34 * Line 35 * 1/2	$ 2.0750
39	Buried Fiber - OC-3	845C	00	Line 31 * Line 34 * Line 35 * 1/2	$ 0.5691
40	UG Fiber - OC-3	85C	00	Line 32 * Line 34 * Line 35 * 1/2	$ 1.7335
41					
42	Probability of Hub to CP - Design 4			Input Sheet Line 100	50%
43					
44	WEIGHTED TOTAL CO TO HUB OC-12 AIR MILES				
45	Aerial Fiber - OC-3	822C	00	Line 38 * Line 42	$ 1.0375
46	Buried Fiber - OC-3	845C	00	Line 39 * Line 42	$ 0.2845
47	UG Fiber - OC-3	85C	00	Line 40 * Line 42	$ 0.8668
48					
49	**TOTAL LOOP MATERIAL**				
50	Aerial Fiber	822C	00	Sum Lines 24, 45	$ 1.3540
51	Buried Fiber	845C	00	Sum Lines 25, 46	$ 0.3713
52	UG Fiber	85C	00	Sum Lines 26, 47	$ 1.1312
53					
54	Design 4 Probability of Occurrence			Input Sheet Line 96	16.67%
55	State Average Air 1/2 miles			Input Sheet Line 88	2.7
56	Ratio Of Circumference To The Diameter			Input Sheet Line 89	3.14
57	Of A Circle				
58					
59	**TOTAL WEIGHTED TRANSPORT MATERIAL**				
60	Aerial Fiber	822C	00	Line 50 * Line 54 * Line 55 * Line 56	$ 1.9136
61	Buried Fiber	845C	00	Line 51 * Line 54 * Line 55 * Line 56	$ 0.5248
62	UG Fiber	85C	00	Line 52 * Line 54 * Line 55 * Line 56	$ 1.5987

	A	B	C	D	E	F	G	H	I	J	K
1	Tennessee										
2	Index Sheet										
3	Study Period: 2000-2002										
4											
5											
6											
7											
8											
9			**Sheet Name:**		**Description:**						
10			Index		Unbundled Network Terminating Wire						
11			Investments		CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA						
12			Additives_Recurring		CALCULATOR INPUT FORM - RECURRING EXPENSES DATA						
13			Additives_Nonrecurring		CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA						
14			Recurring Labor		CALCULATOR INPUT FORM - RECURRING LABOR EXPENSES DATA						
15			Nonrecurring Labor		CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES						
16			WP100		Nonrecurring Worktimes						
17			INPUTS_SERVICE ORDER		Detailed Labor Worktimes						
18			INPUTS_ENGINEERING		Detailed Labor Worktimes						
19			INPUTS_SITE SURVEY- SITE SETUP		Detailed Labor Worktimes						
20			INPUT_GT		Garden Terminal/Wiring Closet						
21			INPUTS_MISC		Miscellaneous Inputs						
22			Input_Lines in Access Terminal		Average Working Line On Average Terminal						
23											
24											
25											
26											
27											
28											

	A	B	C	D	E	F	G	H	I	J
1		**CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA**								
2										
3		**Instructions:**								
4		**1. Use this worksheet to record material and/or investments to be input into the**								
5		**Calculator calculations.**								
6		**2. All amounts shown are per unit (e.g., per call, per loop, per MOU).**								
7		**3. Input data, by Cost Element, leaving no blank lines. On next row**								
8		**after last line of data, type END in Cost Element Column.**								
9		**4. All data on this form should be cell-referenced to study workpapers.**								
10		**5. Do NOT change columns, headings, sheet name.**								
11										
12					**Volume**	**Volume**				
13		**Cost**		**Sub**	**Sensitive**	**Insensitive**				
14	**State**	**Element #**	**FRC**	**FRC**	**$ Amount**	**$ Amount**				
15	TN									
16		END								
17										
18										
19										
20										
21										
22										
23										
24										
25										

001313

CALCULATOR INPUT FORM - RECURRING EXPENSES DATA

Instructions:

1. **Use this worksheet to record recurring non-labor expenses to be input into the Calculator calculations.**
2. **All amounts shown are per unit (e.g., per call, per loop, per MOU).**
3. **Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.**
4. **All data on this form should be cell-referenced to study workpapers.**
5. **Do NOT change columns, headings, sheet name.**

State	Cost Element #	Recurring Expense Description (Limited to 25 characters)	Recurring Volume Sensitive $ Amount	Recurring Volume Insensitive $ Amount
TN	A.15.1	Subscriber Line Testing	$ 0.2061	
TN	A.15.1	Total Monthly Cost Per Access Line - NTW	$ 0.1301	
	END			

Maximum 10 entries per Cost Element #

001314

CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA

Instructions:

1. **Use this worksheet to record nonrecurring non-labor expenses to be input into the Calculator calculations.**
2. **All amounts shown are per unit (e.g., per call, per loop, per MOU).**
3. **Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.**
4. **All data on this form should be cell-referenced to study workpapers.**
5. **Do NOT change columns, headings, sheet name.**
6. **Use column D when cost element has a single nonrecurring cost; use columns E & F for elements with a first and additional nonrecurring cost; use columns G & H for elements with an initial and subsequent nonrecurring cost.**

State	Cost Element #	Nonrecurring Expense Description (Limited to 25 characters)	Nonrecurring $ Amount	Nonrecurring First $ Amount	Nonrecurring Additional $ Amount	Nonrecurring Initial $ Amount	Nonrecurring Subsequent $ Amount
TN	A.15.1	Garden Terminal/Wiring Closet	24.2265				
	END						

Maximum 10 entries per Cost Element #

001315

CALCULATOR INPUT FORM - RECURRING LABOR EXPENSES DATA

Instructions:

1. **Use this worksheet to record recurring expensed labor times to be input into the Calculator calculations.**
2. **All amounts shown are per unit (e.g., per call, per loop, per MOU).**
3. **Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.**
4. **All data on this form should be cell-referenced to study workpapers.**
5. **Do NOT change columns, headings, sheet name.**

State	Cost Element #	Labor Expense Description (Limited to 25 characters)	JFC/ Payband	Work Time (Hours) Volume Sensitive	Work Time (Hours) Volume Insensitive
TN					
	END				

Maximum 20 entries per Cost Element #

CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES

Instructions:

1. Use this worksheet to record nonrecurring labor times to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.
6. Use columns F & G when cost element has a single nonrecurring cost; use columns H, I, J, & K for elements with a first and additional nonrecurring cost; use columns L, M, N & O for elements with an initial and subsequent nonrecurring cost.
7. Input Cost Element Life (in months) on first row of data for each cost element. It is not necessary to repeat on each line.

Study Mid-Point Date (Mos.): 6/1/2001

					(For use w/ one NR)									
State	Cost Element #	Cost Element Life (Mo)	Labor Expense Description (Limited to 25 characters)	JFC/ Payband	Installation Time (Hours)	Disconnect Time Hours	First Installation Time (Hours)	First Disconnect Time Hours	Additional Installation Time (Hours)	Additional Disconnect Time Hours	Initial Installation Time (Hours)	Initial Disconnect Time Hours	Subsequent Installation Time (Hours)	Subsequent Disconnect Time Hours
TN	A.15.1		SERVICE ORDER	230X	0.0175									
TN	A.15.1		SITE SURVEY	SDWC	0.0492									
TN	A.15.1		SITE SURVEY	230X	0.0694									
TN	A.15.1		SITE SURVEY	4M1X	0.0309									
TN	A.15.1		SITE SURVEY	32XX	0.0231									
TN	A.15.1		SITE SURVEY	JG59	0.3056									
TN	A.15.1		SITE SURVEY	410X	0.2630									
TN	A.15.1		ENGINEERING	4M1X	0.0233									
TN	A.15.199	18	SERVICE ORDER	230X		0.0175								
	END													

Maximum of 25 entries per Cost Element #

001317

	A	B	C	D	E	F	G	H	I	J	K
1	**Tennessee**	TN									
2	**Nonrecurring Worktimes**										
3	**Study Period: 2000-2002**										
4											
5	**A.15.1**	**Unbundled Network Terminating Wire (NTW) Per Pair**					**INSTALL**				
6	**A.15.199**	**Unbundled Network Terminating Wire (NTW) Per Pair**					**DISCONNECT**				
7	Location Life	18	months	='Input_Lines in Access Terminal'!B22							
8											
9	**Source**	**Description**	**JFC / JG / WS**	**Per Pair**							
10	='INPUTS_SITE SURVEY- SITE SETUP'!E22	SITE SURVEY	SDWC	0.0492							
11	='INPUTS_SITE SURVEY- SITE SETUP'!E30	SITE SURVEY	230X	0.0694							
12	='INPUTS_SITE SURVEY- SITE SETUP'!E38	SITE SURVEY	4M1X	0.0309							
13	='INPUTS_SITE SURVEY- SITE SETUP'!E46	SITE SURVEY	32XX	0.0231							
14	='INPUTS_SITE SURVEY- SITE SETUP'!E54	SITE SURVEY	JG59	0.3056							
15	='INPUTS_SITE SURVEY- SITE SETUP'!E61	SITE SURVEY	410X	0.2630							
16											
17					**Worktimes (Min.)**					**Worktimes (Hrs.)**	
18	**Source**	**Description**	**JFC / JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**
19	='INPUTS_SERVICE ORDER'!E8*I8	SERVICE ORDER	230X	1.05	1.05	0.00	0.00	0.0175	0.0175	0.0000	0.0000
20	=INPUTS_ENGINEERINGIE7*I7	ENGINEERING	4M1X	1.40	0.00	0.00	0.00	0.0233	0.0000	0.0000	0.0000

	A	B	C	D	E	F	G	H	I
1	**Tennessee**								
2	**Detailed Labor Worktimes**								
3	**Study Period: 2000-2002**								
4									
5									
6	**Item/Description**					**Worktimes (Min.)**			
7	**LOCAL CARRIER SERVICE CENTER (LCSC)**	**Source**	**Description**	**JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**Probability (Fallout)**
8	LCSC receives request and issues service order.	Interconn Svcs.	SERVICE ORDER	230X	15.00	15.00	0.00	0.00	7%
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
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26									
27									
28									
29									
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33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44	Avg Working Lines on Avg Terminal		10.8						

	A	B	C	D	E	F	G	H	I
1	**Tennessee**								
2	**Detailed Labor Worktimes**								
3	**Study Period: 2000-2002**								
4									
5	**Item/Description**				**Worktimes (Min.)**				
6	**ADDRESS AND FACILITY INVENTORY (AFIG)**	**Source**	**Description**	**JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**Probability (Fallout)**
7	Provides manual assistance for fallout orders.	Network	ENGINEERING	4M1X	7.00	0.00	0.00	0.00	20%
8									

	A	B	C	D	E	F	G	H	I	J
1	**Tennessee**									
2	**Detailed Labor Worktimes**									
3	**Study Period: 2000-2002**									
4										
5	**Item/Description**				**Worktimes (Min.)**	**Probability (Fallout)**				
6	**Complex Resale Support Group (CRSG) Work Activities**	**Source**	**Description**	**JG / WS**	**Install**	**Install**				
7	CRSG/Acct Team receives LSR & SI	CRSG	SERVICE INQUIRY	SDWC	3.00	100%				
8	CRSG/Acct Team screens LSR & SI	CRSG	SERVICE INQUIRY	SDWC	3.00	100%				
9	CRSG contacts CLEC acknowledging receipt and begins tracking procedures	CRSG	SERVICE INQUIRY	SDWC	4.00	100%				
10	CRSG prepares SI transmittal to OSPE/SAC	CRSG	SERVICE INQUIRY	SDWC	5.00	100%				
11	CRSG receives SI response, prepares LCSC transmittal, confirms log; notifies CLEC; and closes out folder	CRSG	SERVICE INQUIRY	SDWC	10.00	100%				
12	**Order Complications:**									
13	SI not processed within commitment	CRSG	SERVICE INQUIRY	SDWC	10.00	33%				
14	SI response requires negotation with CLEC/OSPE	CRSG	SERVICE INQUIRY		15.00	24%				
15	**Total Minutes (Worktimes * Probabilities)**				**31.90**					
16										
17	**COMPLEX RESALE SUPPORT GROUP (CRSG)**	**Source**	**Description**	**JG / WS**	**Install**	**Disconnect**				
18	Account Team (AE) takes CLEC request for access terminal, records information on SI form, passes SI to I&M for site visit; accepts completed SI from OSPE; sends SO to LCSC to schedule work; informs CLEC of completion of access terminal job.	=E15	SITE SURVEY	SDWC	31.90	-				
19	**Inputs_Lines in Access Terminal B15**	10.8								
20	**Total Minutes**	=E18			31.90	-				
21	**Total Hours**	=E20/60			0.5317	-				
22	**Time Per Pair**	=E21/B19			**0.0492**	-				
23										
24	**Item/Description**						**Worktimes (Min.)**			
25	**LOCAL CARRIER SERVICE CENTER (LCSC)**	**Source**	**Description**	**JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**Probability (Fallout)**	
26	LCSC receives SI from CLEC; issues service order for equipment order and I&M placing work.	Interconn Svcs.	SITE SURVEY	230X	45.00	0.00	0.00	0.00	100%	
27	**Inputs_Lines in Access Terminal B15**	10.8								
28	**Total Minutes**	=E26			45.00					
29	**Total Hours**	=E28/60			0.7500					
30	**Time Per Pair**	=E29/B27			**0.0694**					
31										

001221

	A	B	C	D	E	F	G	H	I	J
32	**Item/Description**			**Worktimes (Min.)**						
33	**ADDRESS AND FACILITY INVENTORY (AFIG)**	**Source**	**Description**	**JG / WS**	**Install**	**Disconnect**				
34	AFIG builds terminal address information in LFACS	Network	SITE SURVEY	4M1X	20.00	-				
35	**Inputs_Lines in Access Terminal B15**	10.8				-				
36	**Total Minutes**	=E34			20.00	-				
37	**Total Hours**	=E36/60			0.3333	-				
38	**Time Per Pair**	=E37/B35			**0.0309**	-				
39										
40	**Item/Description**			**Worktimes (Min.)**						
41	**OUTSIDE PLANT ENGINEERING (OSPE)**		**Description**	**JG / WS**	**Install**	**Disconnect**				
42	OSPE receives SI from I&M, uses working number to obtain premises address from LFACS, created new terminal address validates existing terminal; provides other inventory info, sends SI to AFIG and CRSG for new terminal address.	Engineering	SITE SURVEY	32XX	15.00	-				
43	**Inputs_Lines in Access Terminal B15**	10.8								
44	**Avg Working Lines on Avg Terminal**	=E42	10.8		15.00	-				
45	**Total Hours**	=E44/60			0.2500	-				
46	**Time Per Pair**	=E45/B43			**0.0231**	-				
47										
48	**Item/Description**				**Worktimes (Min.)**		**Probability (Fallout)**			
49	**INSTALLATION & MAINTENANCE (I&M)**	**Source**	**Description**	**JG / WS**	**Install**	**Disconnect**				
50	I&M Manager is contacted by CLEC for site visit and determines space availability. I&M will provide OSPE with plat valid terminal address.	Network	SITE SURVEY	JG59	198.00	-	100%			
51	**Inputs_Lines in Access Terminal B15**	10.8								
52	**Total Minutes**	=E50*G50			198.00	-				
53	**Total Hours**	=E52/60			3.3000	-				
54	**Time Per Pair**	=E53/B51			**0.3056**	-				
55										
56	I&M places access terminal.	Network	SITE SURVEY	410X	120.00	-	100%			
57	I&M mounts cross-connect blocks	Network	SITE SURVEY	410X	30.00	-	80%			
58	I&M terminates connect cable on common block (includes travel and tagging)	Network	SITE SURVEY	410X	132.00	-	20%			
59	**Total Minutes**	=(E56*G56)+(E57*G57)+(E58*G58)			170.40	-				
60	**Total Hours**	=E59/60			2.8400	-				
61	**Time Per Pair**	=E60/B51			**0.2630**	-				

	A	B	C	D	E
1	**Tennessee**				
2	**Garden Terminal/Wiring Closet**				
3	**Study Period: 2000-2002**				
4					
5	**A.15.1**				**2000-2002 Levelized Inflation Factor Acct 45C**
6				**State Sales Tax**	
7					
8					
9	**Description**	**Source**	**Amount**		
10					
11	**Tennessee Factors**	Cost Matters		1.0600	1.0715
12					
13					
14	% Facilities New	Network	33%		
15	% Facilities Retrofit	Network	67%		
16	% Facilities Within 6ft.	Network	70%		
17	% Facilities Within 15ft.	Network	30%		
18	% Garden Terminal Facilities	Network	60%		
19	% Wiring Closet Facilities	Network	40%		
20					
21	**Garden Terminal (GT)**				
22	100pr. Terminal - Retrofit - 15 ft Shielded w/ stub	Network	$374.7300		
23	100pr. Terminal - Retrofit - 6 ft Non-Shielded w/ stub	Network	$333.1167		
24	Weighted Retrofit	=(C22*C17)+(C23*C16)	$345.6007		
25					
26	100 pr. Terminal - New Install - 15 ft Shielded no stub	Network	$315.0150		
27	100 pr. Terminal - New Install - 6 ft Non-Shielded no stub	Network	$304.1450		
28	Weighted New Install	=(C26*C17)+(C27*C16)	$307.4060		
29					
30	Garden Terminal Material ==>	=(C24*C15)+(C28*C14)	$332.90		
31					
32					
33	**Wiring Closet (WC)**				
34	Cross-connect panel, (RJ21X, 4 25 pr,	Supply Chain Management	[redacted]		
35	[redacted]				
36	Connector Cable, (15 ft., 4 25 pr,	Supply Chain Management	[redacted]		
37	[redacted]				
38					
39	Wiring Closet Material ==>	=C34+C36	$76.5600		
40					
41					
42	**Weighted Equipment WC/GT**	=((C30*C18)+(C39*C19))*D11*E11			$ 261.6459
43					
44	Avg Working Lines on Avg Terminal	Input_Lines in Access Terminal!B15	10.8		
45					
46	**Per Pair Cost of GT/WC Material**	**=E42/C44**			**$ 24.2265**

001323

	A	B	C
1	**Tennessee**		
2	**Miscellaneous Inputs**		
3	**Study Period: 2000-2002**		
4			
5			
6	**Input Description**	**Source**	**Amount**
7			
8			
9			
10			
11			
12			
13	**Subscriber Line Testing**	**SLT.xls, Line G13**	**$ 0.2061**
14			
15	**Network Termining Wire**	**NTW.xls, Line C31**	**$ 0.1301**
16			
17			
18			
19			
20			
21			
22			
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24			
25			
26			
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34			
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36			
37			
38			
39			
40			
41			
42			
43			
44	Avg Working Lines on Avg Terminal		10.8

	A	B	C
1	**Tennessee**		
2	**Average Working Line On Average Terminal**		
3	**Study Period: 2000-2002**		
4			
5	**ASSUMPTIONS:**		
6	**Description**	**Amount**	**Source**
7			
8	# Prs NTW per Living Unit (LU)	5	Network
9	% Garden Terminals	60%	Network
10	% Wiring Closets	40%	Network
11	Avg Lines in Terminal	100	Network
12	# Customers	20	(B11/B8)
13	# Lines	2	Interconnection
14	% Served by CLEC	27%	Interconnection
15	Avg Working Lines on Avg Terminal	**10.8**	(B12*B13)*B14
16			
17			
18			
19	Estimated Life of Equipment - 90 months (7.5 years)	90	Interconnection
20			
21			
22	Location Life	18	Interconnection
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			

001325

	A	B	C
35			
36			
37			
38			
39			
40			
41			
42			
43			
44	Avg Working Lines on Avg Terminal		10.8

Tennessee
Index Sheet
Study Period: 2000-2002

Element #: A.16.1 & 16.2

Sheet Name:	Description:
Index	DS3 LOCAL LOOP
Investments	CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA
Additives_Recurring	CALCULATOR INPUT FORM - RECURRING EXPENSES DATA
Additives_Nonrecurring	CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA
Recurring Labor	CALCULATOR INPUT FORM - RECURRING LABOR EXPENSES DATA
Nonrecurring Labor	CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES
Input Nonrecurring	NONRECURRING WORKTIMES
Input Recurring	RECURRING INPUTS
WP300	SUMMARY
WP311	OC-3 ELECTRONICS
WP312	OC-3 TRANSPORT
WP321	OC-12 ELECTRONICS
WP322	OC-12 TRANSPORT
WP331	OC-48 ELECTRONICS
WP332	OC-48 TRANSPORT

CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA

Instructions:

1. Use this worksheet to record material and/or investments to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.

State	Cost Element #	FRC	Sub FRC	Volume Sensitive $ Amount	Volume Insensitive $ Amount
TN	A.16.1	257C	03	$ 517.5941	
TN	A.16.1	257C	06	$ 2,997.6323	
TN	A.16.1	257C	09	$ 1,630.7773	
TN	A.16.1	257C	15	$ 287.6232	
TN	A.16.1	257C	19	$ 1,415.2687	
TN	A.16.1	257C	22	$ 3,522.6018	
TN	A.16.1	257C	25	$ 1,630.7773	
TN	A.16.1	812C	00	$ 217.4535	
TN	A.16.2	822C	00	$ 93.3228	
TN	A.16.2	845C	00	$ 25.5949	
TN	A.16.2	85C	00	$ 77.9659	
END					

001328

CALCULATOR INPUT FORM - RECURRING EXPENSES DATA

Instructions:

1. **Use this worksheet to record recurring non-labor expenses to be input into the Calculator calculations.**
2. **All amounts shown are per unit (e.g., per call, per loop, per MOU).**
3. **Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.**
4. **All data on this form should be cell-referenced to study workpapers.**
5. **Do NOT change columns, headings, sheet name.**

State	Cost Element #	Recurring Expense Description (Limited to 25 characters)	Recurring Volume Sensitive $ Amount	Recurring Volume Insensitive $ Amount
TN				
	END			

Maximum 10 entries per Cost Element #

CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA

Instructions:

1. **Use this worksheet to record nonrecurring non-labor expenses to be input into the Calculator calculations.**
2. **All amounts shown are per unit (e.g., per call, per loop, per MOU).**
3. **Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.**
4. **All data on this form should be cell-referenced to study workpapers.**
5. **Do NOT change columns, headings, sheet name.**
6. **Use column D when cost element has a single nonrecurring cost; use columns E & F for elements with a first and additional nonrecurring cost; use columns G & H for elements with an initial and subsequent nonrecurring cost.**

State	Cost Element #	Nonrecurring Expense Description (Limited to 25 characters)	Nonrecurring $ Amount	Nonrecurring First $ Amount	Nonrecurring Additional $ Amount	Nonrecurring Initial $ Amount	Nonrecurring Subsequent $ Amount
TN							
	END						

Maximum 10 entries per Cost Element #

001330

CALCULATOR INPUT FORM - RECURRING LABOR EXPENSES DATA

Instructions:

1. **Use this worksheet to record recurring expensed labor times to be input into the Calculator calculations.**
2. **All amounts shown are per unit (e.g., per call, per loop, per MOU).**
3. **Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.**
4. **All data on this form should be cell-referenced to study workpapers.**
5. **Do NOT change columns, headings, sheet name.**

State	Cost Element #	Labor Expense Description (Limited to 25 characters)	JFC/ Payband	Work Time (Hours) Volume Sensitive	Work Time (Hours) Volume Insensitive
TN					
	END				

Maximum 20 entries per Cost Element #

001331

CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES

Instructions:
1. Use this worksheet to record nonrecurring labor times to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.
6. Use columns F & G when cost element has a single nonrecurring cost; use columns H, I, J, & K for elements with a first and additional nonrecurring cost; use columns L, M, N & O for elements with an initial and subsequent nonrecurring cost.
7. Input Cost Element Life (in months) on first row of data for each cost element. It is not necessary to repeat on each line.

Study Mid-Point Date (Mos.): 6/1/2001

State	Cost Element #	Cost Element Life (Mo)	Labor Expense Description (Limited to 25 characters)	JFC/ Payband	(For use w/ one NR) Installation Time (Hours)	(For use w/ one NR) Disconnect Time Hours	First Installation Time (Hours)	First Disconnect Time Hours	Additional Installation Time (Hours)	Additional Disconnect Time Hours	Initial Installation Time (Hours)	Initial Disconnect Time Hours	Subsequent Installation Time (Hours)	Subsequent Disconnect Time Hours
TN	A.16.1	52	Service Inquiry	SDWC			2.0000	0.0000	0.0000	0.0000				
TN	A.16.1	52	Service Inquiry	34XX			2.2500	0.0000	0.0000	0.0000				
TN	A.16.1	52	Service Order	4AXX			0.0600	0.0000	0.0600	0.0000				
TN	A.16.1	52	Service Order	4N4X			0.1118	0.0000	0.0000	0.0000				
TN	A.16.1	52	Service Order	4WXX			0.2500	0.0000	0.0500	0.0000				
TN	A.16.1	52	Service Order	430X			0.1333	0.0000	0.0833	0.0000				
TN	A.16.1	52	Engineering	32XX			2.0833	0.0000	2.0833	0.0000				
TN	A.16.1	52	Engineering	3A2X			0.0333	0.0000	0.0000	0.0000				
TN	A.16.1	52	Engineering	4N4X			1.6640	0.0000	1.6640	0.0000				
TN	A.16.1	52	Connect	431X			1.4920	0.0000	1.4920	0.0000				
TN	A.16.1	52	Connect	4AXX			0.9500	0.0000	0.9500	0.0000				
TN	A.16.1	52	Service Order	411X			0.2500	0.0000	0.1667	0.0000				
TN	A.16.1	52	Connect	411X			1.8400	0.0000	0.9200	0.0000				
TN	A.16.1	52	Travel	411X			0.3000	0.0000	0.0000	0.0000				
TN	A.16.1	52	Service Order	230X			0.0175	0.0000	0.0175	0.0000				
TN	A.16.3	52	Service Order	230X			1.1783	0.0000	1.1783	0.0000				
TN	A.16.199	52	Service Order	4AXX			0.0000	0.1800	0.0000	0.1800				
TN	A.16.199	52	Service Order	4N4X			0.0000	0.0412	0.0000	0.0000				
TN	A.16.199	52	Service Order	430X			0.0000	0.1166	0.0000	0.1166				
TN	A.16.199	52	Engineering	3A2X			0.0000	0.0333	0.0000	0.0000				
TN	A.16.199	52	Engineering	4N4X			0.0000	0.2626	0.0000	0.2626				
TN	A.16.199	52	Connect	431X			0.0000	1.5966	0.0000	1.5966				
TN	A.16.199	52	Service Order	411X			0.0000	0.1667	0.0000	0.0833				
TN	A.16.199	52	Connect	411X			0.0000	1.5000	0.0000	0.7500				
TN	A.16.199	52	Travel	411X			0.0000	0.3000	0.0000	0.0000				
TN	A.16.199	52	Service Order	230X			0.0000	0.0175	0.0000	0.0175				
TN	A.16.199	52	Service Order	230X			0.0000	0.5100	0.0000	0.5100				
TN	A.16.198	52	Test	431X			2.2380	0.0000	2.2380	0.0000				
TN	A.16.198	52	Test	4AXX			0.9500	0.0000	0.9500	0.0000				

00133

	A	B	C	D	E	F	G	H
1	Tennessee							
2	NONRECURRING WORKTIMES							
3	Study Period: 2000-2002							
4								
5	Element #: A.16.1 & 16.2				First Install	First Disconnect	Additional Install	Additional Disconnect
6	Item/Description							
7	Work Group	Description	JFC / JG / WS	Source	Time Hrs	Time Hrs	Time Hrs	Time Hrs
8								
9	COMPLEX RESALE SUPPORT GROUP (CRSG)	Service Inquiry	SDWC	NETWORK	2.0000	0.0000	0.0000	0.0000
10	NETWORK & ENGINEERING PLANNING (FG20)	Service Inquiry	34XX	NETWORK	2.2500	0.0000	0.0000	0.0000
11								
12	ACCESS CUSTOMER ADVOCATE CENTER (UNEC)	Service Order	4AXX	NETWORK	0.0600	0.1800	0.0600	0.1800
13	CIRCUIT PROVISIONING GROUP (CPG)	Service Order	4N4X	NETWORK	0.1118	0.0412	0.0000	0.0000
14	WORK MANAGEMENT CENTER	Service Order	4WXX	NETWORK	0.2500	0.0000	0.0500	0.0000
15	CO INSTALL & MTCE-SWITCH EQUIP	Service Order	430X	NETWORK	0.1333	0.1166	0.0833	0.1166
16								
17	OUTSIDE PLANT ENGINEERING (FG30)	Engineering	32XX	NETWORK	2.0833	0.0000	2.0833	0.0000
18	NETWORK PLANNING & ENGINEERING (PICS)	Engineering	3A2X	NETWORK	0.0333	0.0333	0.0000	0.0000
19	CIRCUIT PROVISIONING CENTER (CPG)	Engineering	4N4X	NETWORK	1.6640	0.2626	1.6640	0.2626
20								
21	CO INSTALL & MTCE CKT & FAC (INTEL)	Connect	431X	NETWORK	1.4920	1.5966	1.4920	1.5966
22	ACCESS CUSTOMER ADVOCATE CENTER (UNEC)	Connect	4AXX	NETWORK	0.9500	0.0000	0.9500	0.0000
23								
24	INSTALL & MTCE-SPEC SVCS (SSIM)	Service Order	411X	NETWORK	0.2500	0.1667	0.1667	0.0833
25	INSTALL & MTCE-SPEC SVCS (SSIM)	Connect	411X	NETWORK	1.8400	1.5000	0.9200	0.7500
26	INSTALL & MTCE-SPEC SVCS (SSIM)	Travel	411X	NETWORK	0.3000	0.3000	0.0000	0.0000
27								
28	CUSTOMER POINT OF CONTACT (LCSC) TOTAL TIME	Service Order	230X	NETWORK	1.1958	0.5275	1.1958	0.5275
29	WORK TIME ELECTRONIC INTERFACE	Service Order	230X	NETWORK	0.0175	0.0175	0.0175	0.0175
30	MANUAL ADDITIVE	Service Order	230X		1.1783	0.5100	1.1783	0.5100
31								
32	CO INSTALL & MTCE CKT & FAC (INTEL)	Test	431X	NETWORK	2.2380	0.0000	2.2380	0.0000
33	ACCESS CUSTOMER ADVOCATE CENTER (UNEC)	Test	4AXX	NETWORK	0.9500	0.0000	0.9500	0.0000
34								
35								
36	INSTALL & MTCE-SPEC SVCS (SSIM)	Test	411X	NETWORK	2.7600	0.0000	1.3800	0.0000
37								
38	COST ELEMENT LIFE IN MONTHS			52				

	A	B	C	D	E
1	Tennessee				
2	RECURRING INPUTS				
3	Study Period: 2000-2002				
4					
5	Element #: A.16.1 & 16.2				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	Battery Back-up - OC- 3 (CP)	257C	19	SONET Price Calculator	$ 867.4797
9	Battery Back-up - OC- 3 (CP)	257C	22	SONET Price Calculator	$ 653.6585
10	Battery Back-up - OC-12 (CP)	257C	19	SONET Price Calculator	$ 216.8699
11	Battery Back-up - OC-12 (CP)	257C	22	SONET Price Calculator	$ 163.4146
12	Battery Back-up - OC-48 (CP)	257C	19	SONET Price Calculator	$ 54.2175
13	Battery Back-up - OC-48 (CP)	257C	22	SONET Price Calculator	$ 40.8537
14	C.O. Interface DS3 on OC- 3	257C	03	SONET Price Calculator	$ 200.9765
15	C.O. Interface DS3 on OC- 3	257C	09	SONET Price Calculator	$ 1,814.8000
16	C.O. Interface DS3 on OC-12	257C	03	SONET Price Calculator	$ 200.9765
17	C.O. Interface DS3 on OC-12	257C	09	SONET Price Calculator	$ 1,138.2114
18	C.O. Interface DS3 on OC-48 - Mux & Protect	257C	06	SONET Price Calculator	$ 168.8834
19	C.O. Interface DS3 on OC-48 - Working	257C	03	SONET Price Calculator	$ 200.9765
20	C.O. Interface DS3 on OC-48 - Working	257C	09	SONET Price Calculator	$ 840.7000
21	C.O. Node - OC- 3	257C	03	SONET Price Calculator	$ 352.0325
22	C.O. Node - OC- 3	257C	06	SONET Price Calculator	$ 3,420.7317
23	C.O. Node - OC-12	257C	03	SONET Price Calculator	$ 156.2805
24	C.O. Node - OC-12	257C	06	SONET Price Calculator	$ 1,939.6037
25	C.O. Node - OC-48 Term	257C	03	SONET Price Calculator	$ 426.7429
26	C.O. Node - OC-48 Term	257C	06	SONET Price Calculator	$ 714.3725
27	C.P. Interface DS3 on OC- 3	257C	19	SONET Price Calculator	$ 200.9765
28	C.P. Interface DS3 on OC- 3	257C	25	SONET Price Calculator	$ 1,814.8000
29	C.P. Interface DS3 on OC-12	257C	19	SONET Price Calculator	$ 200.9765
30	C.P. Interface DS3 on OC-12	257C	25	SONET Price Calculator	$ 1,138.2114
31	C.P. Interface DS3 on OC-48 - Mux & Protect	257C	22	SONET Price Calculator	$ 168.8834
32	C.P. Interface DS3 on OC-48 - Working	257C	19	SONET Price Calculator	$ 200.9765
33	C.P. Interface DS3 on OC-48 - Working	257C	25	SONET Price Calculator	$ 840.7000
34	C.P. Node - OC- 3	257C	19	SONET Price Calculator	$ 352.0325
35	C.P. Node - OC- 3	257C	22	SONET Price Calculator	$ 3,420.7317
36	C.P. Node - OC-12	257C	19	SONET Price Calculator	$ 156.2805
37	C.P. Node - OC-12	257C	22	SONET Price Calculator	$ 1,939.6037
38	C.P. Node - OC-48 Term	257C	19	SONET Price Calculator	$ 426.7429
39	C.P. Node - OC-48 Term	257C	22	SONET Price Calculator	$ 714.3725
40	Data Communications - OC- 3	257C	15	SONET Price Calculator	$ 358.1301
41	Data Communications - OC-12	257C	15	SONET Price Calculator	$ 89.5325
42	Data Communications - OC-48	257C	15	SONET Price Calculator	$ 22.3831
43	Fiber Building Entrance Cable (LC) - OC- 3	812C	00	SONET Price Calculator	$ 270.7592
44	Fiber Building Entrance Cable (LC) - OC-12	812C	00	SONET Price Calculator	$ 67.6898
45	Fiber Building Entrance Cable (LC) - OC-48	812C	00	SONET Price Calculator	$ 16.9224
46	Aerial Fiber - Per Wgtd Fiber Mile - OC- 3 (LC)	822C	00	SONET Price Calculator	$ 28.9054
47	Aerial Fiber - Per Wgtd Fiber Mile - OC-12 (LC)	822C	00	SONET Price Calculator	$ 7.2263
48	Aerial Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	822C	00	SONET Price Calculator	$ 1.8066
49	Buried Fiber - Per Wgtd Fiber Mile - OC- 3 (LC)	845C	00	SONET Price Calculator	$ 7.9276
50	Buried Fiber - Per Wgtd Fiber Mile - OC-12 (LC)	845C	00	SONET Price Calculator	$ 1.9819
51	Buried Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	845C	00	SONET Price Calculator	$ 0.4955
52	UG Fiber - Per Wgtd Fiber Mile - OC- 3 (LC)	85C	00	SONET Price Calculator	$ 24.1488
53	UG Fiber - Per Wgtd Fiber Mile - OC-12 (LC)	85C	00	SONET Price Calculator	$ 6.0372
54	UG Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	85C	00	SONET Price Calculator	$ 1.5093
55	DSX-3 Panel (One Port @ DS3)	257C	19	SONET Price Calculator	$ 200.9800
56					
57	Route to Air Ratio (RTA)			Network	1.34
58					
59	Number of Strands per Ring				3
60	Probability of Occurrence OC-3			Network	75%
61	Probability of Occurrence OC-12			Network	20%
62	Probability of Occurrence OC-48			Network	5%

Tennessee
SUMMARY
Study Period: 2000-2002

Element #: A.16.1 & 16.2

ELECTRONIC MATERIAL

FRC	SubFRC	0C-3 WP311	0C-12 WP321	0C-48 WP331	TOTAL	SOURCE
257C	03	$ 414.7567	$ 71.4514	$ 31.3860	$ 517.5941	Line 56
257C	06	$2,565.5488	$387.9207	$ 44.1628	$2,997.6323	Line 57
257C	09	$1,361.1000	$227.6423	$ 42.0350	$1,630.7773	Line 58
257C	15	$ 268.5976	$ 17.9065	$ 1.1192	$ 287.6232	Line 59
257C	19	$1,216.1015	$155.0214	$ 44.1458	$1,415.2687	Line 60
257C	22	$3,055.7927	$420.6037	$ 46.2055	$3,522.6018	Line 61
257C	25	$1,361.1000	$227.6423	$ 42.0350	$1,630.7773	Line 62
812C	00	$ 203.0694	$ 13.5380	$ 0.8461	$ 217.4535	Line 63

TRANSPORT MATERIAL

FRC	SubFRC	0C-3 WP312	0C-12 WP322	0C-48 WP332	TOTAL	SOURCE
822C	00	$ 87.1497	$ 5.8100	$ 0.3631	$ 93.3228	Line 23
845C	00	$ 23.9018	$ 1.5935	$ 0.0996	$ 25.5949	Line 24
85C	00	$ 72.8086	$ 4.8539	$ 0.3034	$ 77.9659	Line 25

	A	B	C	D	E
1	Tennessee				
2	OC-3 ELECTRONICS				
3	Study Period: 2000-2002				
4					
5	Element #: A.16.1 & 16.2				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**CENTRAL OFFICE**				
9					
10	C.O. Interface DS3 on OC- 3	257C	03	Input Sheet Line 14	$ 200.9765
11	C.O. Interface DS3 on OC- 3	257C	09	Input Sheet Line 15	$ 1,814.8000
12					
13	C.O. Node - OC- 3	257C	03	Input Sheet Line 21	$ 352.0325
14	C.O. Node - OC- 3	257C	06	Input Sheet Line 22	$ 3,420.7317
15					
16	Data Communications - OC- 3	257C	15	Input Sheet Line 40	$ 358.1301
17					
18	TOTAL			Sum Lines 10 Thru 16	$ 6,146.6708
19					
20	**POINT OF TERMINATION (CP)**				
21					
22	C.P. Interface DS3 on OC- 3	257C	19	Input Sheet Line 27	$ 200.9765
23	C.P. Interface DS3 on OC- 3	257C	25	Input Sheet Line 28	$ 1,814.8000
24					
25	C.P. Node - OC- 3	257C	19	Input Sheet Line 34	$ 352.0325
26	C.P. Node - OC- 3	257C	22	Input Sheet Line 35	$ 3,420.7317
27					
28	Battery Back-up - OC- 3 (CP)	257C	19	Input Sheet Line 8	$ 867.4797
29	Battery Back-up - OC- 3 (CP)	257C	22	Input Sheet Line 9	$ 653.6585
30					
31	DSX-3 Panel (One Port @ DS3)	257C	19	Input Sheet Line 55	$ 200.9800
32					
33	Fiber Building Entrance Cable (LC) - OC- 3	812C	00	Input Sheet Line 43	$ 270.7592
34					
35	TOTAL			Sum Lines 22 Thru 33	$ 7,781.4181
36					
37					
38	**SUMMARY BY FRC**				
39					
40	Digtl Circ C.O. - Hardwired	257C	03	Sum Lines 10, 13	$ 553.0090
41	Digtl Circ C.O. - Com. Plug-in	257C	06	Lines 14	$ 3,420.7317
42	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 11	$ 1,814.8000
43	Digtl Circ C.O. - Combined	257C	15	Line 16	$ 358.1301
44	Digtl Circ Prem - Hardwired	257C	19	Sum Lines 22, 25, 28, 31	$ 1,621.4687
45	Digtl Circ Prem - Com. Plug-in	257C	22	Sum Lines 26. 29	$ 4,074.3902
46	Digtl Circ Prem - Def. Plug-in	257C	25	Line 23	$ 1,814.8000
47	Fiber Bldg. Entrance Cable	812C	00	Line 33	$ 270.7592
48	TOTAL DS3 LOCAL LOOP			Sum Lines 40 Thru 47	$ 13,928.0889
49					
50					
51	Probability of Occurrence OC-3			Input Sheet Line 60	75%
52					
53					
54	**SUMMARY BY FRC - WEIGHTED**				
55					
56	Digtl Circ C.O. - Hardwired	257C	03	Line 51 * Line 40	$ 414.7567
57	Digtl Circ C.O. - Com. Plug-in	257C	06	Line 51 * Line 41	$ 2,565.5488
58	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 51 * Line 42	$ 1,361.1000
59	Digtl Circ C.O. - Combined	257C	15	Line 51 * Line 43	$ 268.5976
60	Digtl Circ Prem - Hardwired	257C	19	Line 51 * Line 44	$ 1,216.1015
61	Digtl Circ Prem - Com. Plug-in	257C	22	Line 51 * Line 45	$ 3,055.7927
62	Digtl Circ Prem - Def. Plug-in	257C	25	Line 51 * Line 46	$ 1,361.1000
63	Fiber Bldg. Entrance Cable	812C	00	Line 51 * Line 47	$ 203.0694
64	TOTAL DS3 LOCAL LOOP (WEIGHTED)			Sum Lines 56 Thru 63	$ 10,446.0666

	A	B	C	D	E
1	Tennessee				
2	OC-3 TRANSPORT				
3	Study Period: 2000-2002				
4					
5	Element #: A.16.1 & 16.2				
6	Item/Description			Source	Amount
7	Description	FRC	SubFRC		
8	**MATERIAL PER MILE PER STRAND (ROUTE)**				
9					
10	Aerial Fiber - Per Wgtd Fiber Mile - OC- 3 (LC)	822C	00	Input Sheet Line 46	$ 28.9054
11	Buried Fiber - Per Wgtd Fiber Mile - OC- 3 (LC)	845C	00	Input Sheet Line 49	$ 7.9276
12	UG Fiber - Per Wgtd Fiber Mile - OC- 3 (LC)	85C	00	Input Sheet Line 52	$ 24.1488
13					
14	Number of Strands per Ring			Input Sheet Line 59	3
15					
16	Probability of Occurrence OC-3			Input Sheet Line 60	75%
17					
18	Route to Air Ratio (RTA)			Input Sheet Line 57	1.34
19					
20					
21	**WEIGHTED MATERIAL PER MILE PER STRAND (AIR)**				
22					
23	Aerial Fiber - Per Wgtd Fiber Mile - OC- 3 (LC)	822C	00	Line 10 * Line 14 * Line 16 * Line 18	$ 87.1497
24	Buried Fiber - Per Wgtd Fiber Mile - OC- 3 (LC)	845C	00	Line 11 * Line 14 * Line 16 * Line 18	$ 23.9018
25	UG Fiber - Per Wgtd Fiber Mile - OC- 3 (LC)	85C	00	Line 12 * Line 14 * Line 16 * Line 18	$ 72.8086

	A	B	C	D	E
1	Tennessee				
2	OC-12 ELECTRONICS				
3	Study Period: 2000-2002				
4					
5	Element #: A.16.1 & 16.2				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**CENTRAL OFFICE**				
9					
10	C.O. Interface DS3 on OC-12	257C	03	Input Sheet Line 16	$ 200.9765
11	C.O. Interface DS3 on OC-12	257C	09	Input Sheet Line 17	$ 1,138.2114
12					
13	C.O. Node - OC-12	257C	03	Input Sheet Line 23	$ 156.2805
14	C.O. Node - OC-12	257C	06	Input Sheet Line 24	$ 1,939.6037
15					
16	Data Communications - OC-12	257C	15	Input Sheet Line 41	$ 89.5325
17					
18	TOTAL			Sum Lines 10 Thru 16	$ 3,524.6045
19					
20	**POINT OF TERMINATION (CP)**				
21					
22	C.P. Interface DS3 on OC-12	257C	19	Input Sheet Line 29	$ 200.9765
23	C.P. Interface DS3 on OC-12	257C	25	Input Sheet Line 30	$ 1,138.2114
24					
25	C.P. Node - OC-12	257C	19	Input Sheet Line 36	$ 156.2805
26	C.P. Node - OC-12	257C	22	Input Sheet Line 37	$ 1,939.6037
27					
28	Battery Back-up - OC-12 (CP)	257C	19	Input Sheet Line 10	$ 216.8699
29	Battery Back-up - OC-12 (CP)	257C	22	Input Sheet Line 11	$ 163.4146
30					
31	DSX-3 Panel (One Port @ DS3)	257C	19	Input Sheet Line 55	$ 200.9800
32					
33	Fiber Building Entrance Cable (LC) - OC-12	812C	00	Input Sheet Line 44	$ 67.6898
34					
35	TOTAL			Sum Lines 22 Thru 33	$ 4,084.0263
36					
37					
38	**SUMMARY BY FRC**				
39					
40	Digtl Circ C.O. - Hardwired	257C	03	Sum Lines 10, 13	$ 357.2570
41	Digtl Circ C.O. - Com. Plug-in	257C	06	Lines 14	$ 1,939.6037
42	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 11	$ 1,138.2114
43	Digtl Circ C.O. - Combined	257C	15	Line 16	$ 89.5325
44	Digtl Circ Prem - Hardwired	257C	19	Sum Lines 22, 25, 28, 31	$ 775.1069
45	Digtl Circ Prem - Com. Plug-in	257C	22	Sum Lines 26, 29	$ 2,103.0183
46	Digtl Circ Prem - Def. Plug-in	257C	25	Line 23	$ 1,138.2114
47	Fiber Bldg. Entrance Cable	812C	00	Line 33	$ 67.6898
48	TOTAL DS3 LOCAL LOOP			Sum Lines 40 Thru 47	$ 7,608.6309
49					
50					
51	Probability of Occurrence OC-12			Input Sheet Line 61	20%
52					
53					
54	**SUMMARY BY FRC - WEIGHTED**				
55					
56	Digtl Circ C.O. - Hardwired	257C	03	Line 51 * Line 40	$ 71.4514
57	Digtl Circ C.O. - Com. Plug-in	257C	06	Line 51 * Line 41	$ 387.9207
58	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 51 * Line 42	$ 227.6423
59	Digtl Circ C.O. - Combined	257C	15	Line 51 * Line 43	$ 17.9065
60	Digtl Circ Prem - Hardwired	257C	19	Line 51 * Line 44	$ 155.0214
61	Digtl Circ Prem - Com. Plug-in	257C	22	Line 51 * Line 45	$ 420.6037
62	Digtl Circ Prem - Def. Plug-in	257C	25	Line 51 * Line 46	$ 227.6423
63	Fiber Bldg. Entrance Cable	812C	00	Line 51 * Line 47	$ 13.5380
64	TOTAL DS3 LOCAL LOOP (WEIGHTED)			Sum Lines 56 Thru 63	$ 1,521.7262

	A	B	C	D	E
1	Tennessee				
2	OC-12 TRANSPORT				
3	Study Period: 2000-2002				
4					
5	Element #: A.16.1 & 16.2				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**MATERIAL PER MILE PER STRAND (ROUTE)**				
9					
10	Aerial Fiber - Per Wgtd Fiber Mile - OC-12 (LC)	822C	00	Input Sheet Line 47	$ 7.2263
11	Buried Fiber - Per Wgtd Fiber Mile - OC-12 (LC)	845C	00	Input Sheet Line 50	$ 1.9819
12	UG Fiber - Per Wgtd Fiber Mile - OC-12 (LC)	85C	00	Input Sheet Line 53	$ 6.0372
13					
14	Number of Strands per Ring			Input Sheet Line 59	3
15					
16	Probability of Occurrence OC-12			Input Sheet Line 61	20%
17					
18	Route to Air Ratio (RTA)			Input Sheet Line 57	1.34
19					
20					
21	**WEIGHTED MATERIAL PER MILE PER STRAND (AIR)**				
22					
23	Aerial Fiber - Per Wgtd Fiber Mile - OC-12 (LC)	822C	00	Line 10 * Line 14 * Line 16 * Line 18	$ 5.8100
24	Buried Fiber - Per Wgtd Fiber Mile - OC-12 (LC)	845C	00	Line 11 * Line 14 * Line 16 * Line 18	$ 1.5935
25	UG Fiber - Per Wgtd Fiber Mile - OC-12 (LC)	85C	00	Line 12 * Line 14 * Line 16 * Line 18	$ 4.8539

	A	B	C	D	E
1	Tennessee				
2	OC-48 ELECTRONICS				
3	Study Period: 2000-2002				
4					
5	Element #: A.16.1 & 16.2				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**CENTRAL OFFICE**				
9					
10	C.O. Interface DS3 on OC-48 - Mux & Protect	257C	06	Input Sheet Line 18	$ 168.8834
11	C.O. Interface DS3 on OC-48 - Working	257C	03	Input Sheet Line 19	$ 200.9765
12	C.O. Interface DS3 on OC-48 - Working	257C	09	Input Sheet Line 20	$ 840.7000
13					
14	C.O. Node - OC-48 Term	257C	03	Input Sheet Line 25	$ 426.7429
15	C.O. Node - OC-48 Term	257C	06	Input Sheet Line 26	$ 714.3725
16					
17	Data Communications - OC-48	257C	15	Input Sheet Line 42	$ 22.3831
18					
19	TOTAL			Sum Lines 10 Thru 17	$ 2,374.0583
20					
21	**POINT OF TERMINATION (CP)**				
22					
23	C.P. Interface DS3 on OC-48 - Mux & Protect	257C	22	Input Sheet Line 31	$ 168.8834
24	C.P. Interface DS3 on OC-48 - Working	257C	19	Input Sheet Line 32	$ 200.9765
25	C.P. Interface DS3 on OC-48 - Working	257C	25	Input Sheet Line 33	$ 840.7000
26					
27	C.P. Node - OC-48 Term	257C	19	Input Sheet Line 38	$ 426.7429
28	C.P. Node - OC-48 Term	257C	22	Input Sheet Line 39	$ 714.3725
29					
30	Battery Back-up - OC-48 (CP)	257C	19	Input Sheet Line 12	$ 54.2175
31	Battery Back-up - OC-48 (CP)	257C	22	Input Sheet Line 13	$ 40.8537
32					
33	Fiber Building Entrance Cable (LC) - OC-48	812C	00	Input Sheet Line 45	$ 16.9224
34					
35	DSX-3 Panel (One Port @ DS3)	257C	19	Input Sheet Line 55	$ 200.9800
36					
37	TOTAL			Sum Lines 23 Thru 35	$ 2,664.6488
38					
39					
40	**SUMMARY BY FRC**				
41					
42	Digtl Circ C.O. - Hardwired	257C	03	Sum Lines 11 + 14	$ 627.7194
43	Digtl Circ C.O. - Com. Plug-in	257C	06	Sum Lines 10, 15	$ 883.2558
44	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 12	$ 840.7000
45	Digtl Circ C.O. - Combined	257C	15	Line 17	$ 22.3831
46	Digtl Circ Prem - Hardwired	257C	19	Sum Lines 24, 27, 30, 35	$ 882.9168
47	Digtl Circ Prem - Com. Plug-in	257C	22	Sum Lines 23, 28, 31	$ 924.1095
48	Digtl Circ Prem - Def. Plug-in	257C	25	Sum Lines 38 Thru 45	$ 840.7000
49	Fiber Bldg. Entrance Cable	812C	00	Line 33	$ 16.9224
50	TOTAL DS3 LOCAL LOOP			Sum Lines 42 Thru 49	$ 5,038.7071
51					
52	Probability of Occurrence OC-48			Input Sheet Line 62	5%
53					
54	**SUMMARY BY FRC - WEIGHTED**				
55					
56	Digtl Circ C.O. - Hardwired	257C	03	Line 52 * Line 42	$ 31.3860
57	Digtl Circ C.O. - Com. Plug-in	257C	06	Line 52 * Line 43	$ 44.1628
58	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 52 * Line 44	$ 42.0350
59	Digtl Circ C.O. - Combined	257C	15	Line 52 * Line 45	$ 1.1192
60	Digtl Circ Prem - Hardwired	257C	19	Line 52 * Line 46	$ 44.1458
61	Digtl Circ Prem - Com. Plug-in	257C	22	Line 52 * Line 47	$ 46.2055
62	Digtl Circ Prem - Def. Plug-in	257C	25	Line 52 * Line 48	$ 42.0350
63	Fiber Bldg. Entrance Cable	812C	00	Line 52 * Line 49	$ 0.8461
64	TOTAL DS3 LOCAL LOOP (WEIGHTED)			Sum Lines 56 Thru 63	$ 251.9354

001340

	A	B	C	D	E
1	Tennessee				
2	OC-48 TRANSPORT				
3	Study Period: 2000-2002				
4					
5	Element #: A.16.1 & 16.2				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**MATERIAL PER MILE PER STRAND (ROUTE)**				
9					
10	Aerial Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	822C	00	Input Sheet Line 48	$ 1.8066
11	Buried Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	845C	00	Input Sheet Line 51	$ 0.4955
12	UG Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	85C	00	Input Sheet Line 54	$ 1.5093
13					
14	Number of Strands per Ring			Input Sheet Line 59	3
15					
16	Probability of Occurrence OC-48			Input Sheet Line 62	5%
17					
18	Route to Air Ratio (RTA)			Input Sheet Line 57	1.34
19					
20					
21	**WEIGHTED MATERIAL PER MILE PER STRAND (AIR)**				
22					
23	Aerial Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	822C	00	Line 10 * Line 14 * Line 16 * Line 18	$ 0.3631
24	Buried Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	845C	00	Line 11 * Line 14 * Line 16 * Line 18	$ 0.0996
25	UG Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	85C	00	Line 12 * Line 14 * Line 16 * Line 18	$ 0.3034

Tennessee
Index Sheet
Study Period: 2000-2002

Element #: A.16.4 & A.16.5

Sheet Name:	Description:
Index	0C-3 LOCAL LOOP
Investments	CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA
Additives_Recurring	CALCULATOR INPUT FORM - RECURRING EXPENSES DATA
Additives_Nonrecurring	CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA
Recurring Labor	CALCULATOR INPUT FORM - RECURRING LABOR EXPENSES DATA
Nonrecurring Labor	CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES
Input Nonrecurring	NONRECURRING WORKTIMES
Input Recurring	RECURRING INPUTS
WP300	SUMMARY
WP311	OC-12 ELECTRONICS
WP312	OC-12 TRANSPORT
WP321	OC-48 ELECTRONICS
WP322	OC-48 TRANSPORT

001342

CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA

Instructions:

1. Use this worksheet to record material and/or investments to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.

State	Cost Element #	FRC	Sub FRC	Volume Sensitive $ Amount	Volume Insensitive $ Amount
TN	A.16.4	257C	03	$ 670.5545	
TN	A.16.4	257C	06	$ 4,896.4577	
TN	A.16.4	257C	09	$ 4,413.8268	
TN	A.16.4	257C	15	$ 218.2355	
TN	A.16.4	257C	19	$ 1,363.7965	
TN	A.16.4	257C	22	$ 5,325.4211	
TN	A.16.4	257C	25	$ 4,413.8268	
TN	A.16.4	812C	00	$ 164.9939	
TN	A.16.5	822C	00	$ 70.8091	
TN	A.16.5	845C	00	$ 19.4202	
TN	A.16.5	85C	00	$ 59.1570	
	END				

001343

CALCULATOR INPUT FORM - RECURRING EXPENSES DATA

Instructions:

1. **Use this worksheet to record recurring non-labor expenses to be input into the Calculator calculations.**
2. **All amounts shown are per unit (e.g., per call, per loop, per MOU).**
3. **Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.**
4. **All data on this form should be cell-referenced to study workpapers.**
5. **Do NOT change columns, headings, sheet name.**

State	Cost Element #	Recurring Expense Description (Limited to 25 characters)	Recurring Volume Sensitive $ Amount	Recurring Volume Insensitive $ Amount
TN				
	END			

Maximum 10 entries per Cost Element #

001344

CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA

Instructions:

1. Use this worksheet to record nonrecurring non-labor expenses to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.
6. Use column D when cost element has a single nonrecurring cost; use columns E & F for elements with a first and additional nonrecurring cost; use columns G & H for elements with an initial and subsequent nonrecurring cost.

State	Cost Element #	Nonrecurring Expense Description (Limited to 25 characters)	Nonrecurring $ Amount	Nonrecurring First $ Amount	Nonrecurring Additional $ Amount	Nonrecurring Initial $ Amount	Nonrecurring Subsequent $ Amount
TN							
	END						

Maximum 10 entries per Cost Element #

001345

CALCULATOR INPUT FORM - RECURRING LABOR EXPENSES DATA

Instructions:

1. **Use this worksheet to record recurring expensed labor times to be input into the Calculator calculations.**
2. **All amounts shown are per unit (e.g., per call, per loop, per MOU).**
3. **Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.**
4. **All data on this form should be cell-referenced to study workpapers.**
5. **Do NOT change columns, headings, sheet name.**

State	Cost Element #	Labor Expense Description (Limited to 25 characters)	JFC/ Payband	Work Time (Hours) Volume Sensitive	Work Time (Hours) Volume Insensitive
TN					
	END				

Maximum 20 entries per Cost Element #

001346

CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES

Instructions:

1. Use this worksheet to record nonrecurring labor times to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.
6. Use columns F & G when cost element has a single nonrecurring cost; use columns H, I, J, & K for elements with a first and additional nonrecurring cost; use columns L, M, N & O for elements with an initial and subsequent nonrecurring cost.
7. Input Cost Element Life (in months) on first row of data for each cost element. It is not necessary to repeat on each line.

Study Mid-Point Date (Mos.): 6/1/01

State	Cost Element #	Cost Element Life (Mo)	Labor Expense Description (Limited to 25 characters)	JFC/ Payband	(For use w/ one NR) Installation Time (Hours)	(For use w/ one NR) Disconnect Time Hours	First Installation Time (Hours)	First Disconnect Time Hours	Additional Installation Time (Hours)	Additional Disconnect Time Hours	Initial Installation Time (Hours)	Initial Disconnect Time Hours	Subsequent Installation Time (Hours)	Subsequent Disconnect Time Hours
TN	A.16.4	52	Service Inquiry	SDWC			2.0000	0.0000	0.0000	0.0000				
TN	A.16.4	52	Service Inquiry	34XX			8.0000	0.0000	0.0000	0.0000				
TN	A.16.4	52	Service Order	4AXX			0.0600	0.0000	0.0600	0.0000				
TN	A.16.4	52	Service Order	4N4X			0.1118	0.0000	0.0000	0.0000				
TN	A.16.4	52	Service Order	4WXX			0.2500	0.0000	0.0500	0.0000				
TN	A.16.4	52	Service Order	430X			0.1333	0.0000	0.0833	0.0000				
TN	A.16.4	52	Engineering	32XX			2.0833	0.0000	2.0833	0.0000				
TN	A.16.4	52	Engineering	3A2X			0.0333	0.0000	0.0000	0.0000				
TN	A.16.4	52	Engineering	4N4X			1.6640	0.0000	1.6640	0.0000				
TN	A.16.4	52	Connect	431X			1.4920	0.0000	1.4920	0.0000				
TN	A.16.4	52	Connect	4AXX			1.1400	0.0000	1.1400	0.0000				
TN	A.16.498	52	Test	431X			2.2380	0.0000	2.2380	0.0000				
TN	A.16.498	52	Test	4AXX			1.1400	0.0000	1.1400	0.0000				
TN	A.16.4	52	Service Order	230X			0.0175	0.0000	0.0175	0.0000				
TN	A.16.6	52	Service Order	230X			1.1783	0.0000	1.1783	0.0000				
TN	A.16.499	52	Service Order	4AXX			0.0000	0.1800	0.0000	0.1800				
TN	A.16.499	52	Service Order	4N4X			0.0000	0.0412	0.0000	0.0000				
TN	A.16.499	52	Service Order	430X			0.0000	0.1166	0.0000	0.1166				
TN	A.16.499	52	Engineering	3A2X			0.0000	0.0333	0.0000	0.0000				
TN	A.16.499	52	Engineering	4N4X			0.0000	0.2626	0.0000	0.2626				
TN	A.16.499	52	Connect	431X			0.0000	1.5966	0.0000	1.5966				
TN	A.16.499	52	Service Order	230X			0.0000	0.0175	0.0000	0.0175				
TN	A.16.699	52	Service Order	230X			0.0000	0.5100	0.0000	0.5100				
	END													

Maximum of 25 entries per Cost Element #

001347

	A	B	C	D	E	F	G	H
1	Tennessee							
2	NONRECURRING WORKTIMES							
3	Study Period: 2000-2002							
4								
5	Element #: A.16.4 & A.16.5				First	First	Additional	Additional
6	Item/Description				Install	Disconnect	Install	Disconnect
7	Work Group	Description	JFC / JG / WS	Source	Time Hrs	Time Hrs	Time Hrs	Time Hrs
8								
9	COMPLEX RESALE SUPPORT GROUP (CRSG)	Service Inquiry	SDWC	NETWORK	2.0000	0.0000	0.0000	0.0000
10	NETWORK & ENGINEERING PLANNING (FG20)	Service Inquiry	34XX	NETWORK	8.0000	0.0000	0.0000	0.0000
11								
12	ACCESS CUSTOMER ADVOCATE CENTER (UNEC)	Service Order	4AXX	NETWORK	0.0600	0.1800	0.0600	0.1800
13	CIRCUIT PROVISIONING GROUP (CPG)	Service Order	4N4X	NETWORK	0.1118	0.0412	0.0000	0.0000
14	WORK MANAGEMENT CENTER	Service Order	4WXX	NETWORK	0.2500	0.0000	0.0500	0.0000
15	CO INSTALL & MTCE-SWITCH EQUIP	Service Order	430X	NETWORK	0.1333	0.1166	0.0833	0.1166
16								
17	OUTSIDE PLANT ENGINEERING (FG30)	Engineering	32XX	NETWORK	2.0833	0.0000	2.0833	0.0000
18	NETWORK PLANNING & ENGINEERING (PICS)	Engineering	3A2X	NETWORK	0.0333	0.0333	0.0000	0.0000
19	CIRCUIT PROVISIONING CENTER (CPG)	Engineering	4N4X	NETWORK	1.6640	0.2626	1.6640	0.2626
20								
21	CO INSTALL & MTCE CKT & FAC (INTEL)	Connect	431X	NETWORK	1.4920	1.5966	1.4920	1.5966
22	ACCESS CUSTOMER ADVOCATE CENTER (UNEC)	Connect	4AXX	NETWORK	1.1400	0.0000	1.1400	0.0000
23								
24	CO INSTALL & MTCE CKT & FAC (INTEL)	Test	431X	NETWORK	2.2380	0.0000	2.2380	0.0000
25	ACCESS CUSTOMER ADVOCATE CENTER (UNEC)	Test	4AXX	NETWORK	1.1400	0.0000	1.1400	0.0000
26								
27	CUSTOMER POINT OF CONTACT (LCSC) TOTAL TIME	Service Order	230X	NETWORK	1.1958	0.5275	1.1958	0.5275
28	WORK TIME ELECTRONIC INTERFACE	Service Order	230X	NETWORK	0.0175	0.0175	0.0175	0.0175
29	MANUAL ADDITIVE	Service Order	230X		1.1783	0.5100	1.1783	0.5100
30								
31	COST ELEMENT LIFE IN MONTHS			52				

001348

	A	B	C	D	E
1	Tennessee				
2	RECURRING INPUTS				
3	Study Period: 2000-2002				
4					
5	Element #: A.16.4 & A.16.5				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	Battery Back-up - OC-12 (CP)	257C	19	SONET Price Calculator	$ 650.6098
9	Battery Back-up - OC-12 (CP)	257C	22	SONET Price Calculator	$ 490.2439
10	Battery Back-up - OC-48 (CP)	257C	19	SONET Price Calculator	$ 325.3049
11	Battery Back-up - OC-48 (CP)	257C	22	SONET Price Calculator	$ 245.1220
12	C.O. Interface OC- 3 on OC-12	257C	09	SONET Price Calculator	$ 3,561.8000
13	C.O. Interface OC- 3 on OC-48	257C	09	SONET Price Calculator	$ 6,969.9073
14	C.O. Node - OC-12	257C	03	SONET Price Calculator	$ 462.2561
15	C.O. Node - OC-12	257C	06	SONET Price Calculator	$ 5,818.8110
16	C.O. Node - OC-48 Term	257C	03	SONET Price Calculator	$ 1,234.4970
17	C.O. Node - OC-48 Term	257C	06	SONET Price Calculator	$ 2,129.3979
18	C.P. Interface OC- 3 on OC-12	257C	25	SONET Price Calculator	$ 3,561.8000
19	C.P. Interface OC- 3 on OC-48	257C	25	SONET Price Calculator	$ 6,969.9073
20	C.P. Node - OC-12	257C	19	SONET Price Calculator	$ 462.2561
21	C.P. Node - OC-12	257C	22	SONET Price Calculator	$ 5,818.8110
22	C.P. Node - OC-48 Term	257C	19	SONET Price Calculator	$ 1,234.4970
23	C.P. Node - OC-48 Term	257C	22	SONET Price Calculator	$ 2,129.3979
24	Data Communications - OC-12	257C	15	SONET Price Calculator	$ 268.5976
25	Data Communications - OC-48	257C	15	SONET Price Calculator	$ 67.1494
26	LGX - OC-12	257C	03	SONET Price Calculator	$ 11.1280
27	LGX - OC-48	257C	03	SONET Price Calculator	$ 2.7820
28	LTIE - Fiber Only	257C	19	SONET Price Calculator	$ 133.0000
29	Pigtail - OC-12	257C		SONET Price Calculator	$ 7.5000
30	Pigtail - OC-48	257C		SONET Price Calculator	$ 2.2866
31	Fiber Building Entrance Cable (LC) - OC-12	812C	00	SONET Price Calculator	$ 203.0694
32	Fiber Building Entrance Cable (LC) - OC-48	812C	00	SONET Price Calculator	$ 50.7673
33	Aerial Fiber - Per Wgtd Fiber Mile - OC-12 (LC)	822C	00	SONET Price Calculator	$ 21.6790
34	Aerial Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	822C	00	SONET Price Calculator	$ 5.4198
35	Buried Fiber - Per Wgtd Fiber Mile - OC-12 (LC)	845C	00	SONET Price Calculator	$ 5.9457
36	Buried Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	845C	00	SONET Price Calculator	$ 1.4864
37	UG Fiber - Per Wgtd Fiber Mile - OC-12 (LC)	85C	00	SONET Price Calculator	$ 18.1116
38	UG Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	85C	00	SONET Price Calculator	$ 4.5279
39					
40	Route to Air Ratio (RTA)			Network	1.34
41					
42	Number of Strands per Ring				3
43					
44	Probability of Occurrence OC-12			Network	75%
45	Probability of Occurrence OC-48			Network	25%

001349

	A	B	C	D	E	F
1	Tennessee					
2	SUMMARY					
3	Study Period: 2000-2002					
4						
5	Element #: A.16.4 & A.16.5					
6	**ELECTRONIC MATERIAL**					
7						
8			0C-12	0C-48		
9	FRC	SubFRC	WP311	WP321	TOTAL	SOURCE
10	257C	03	$ 360.6631	$ 309.8914	$ 670.5545	Line 55
11	257C	06	$4,364.1082	$ 532.3495	$4,896.4577	Line 56
12	257C	09	$2,671.3500	$1,742.4768	$4,413.8268	Line 57
13	257C	15	$ 201.4482	$ 16.7873	$ 218.2355	Line 58
14	257C	19	$ 940.0244	$ 423.7721	$1,363.7965	Line 59
15	257C	22	$4,731.7912	$ 593.6300	$5,325.4211	Line 60
16	257C	25	$2,671.3500	$1,742.4768	$4,413.8268	Line 61
17	812C	00	$ 152.3020	$ 12.6918	$ 164.9939	Line 62
18						
19						
20	**TRANSPORT MATERIAL**					
21						
22			0C-12	0C-48		
23	FRC	SubFRC	WP312	WP322	TOTAL	SOURCE
24	822C	00	$ 65.3623	$ 5.4469	$ 70.8091	Line 23
25	845C	00	$ 17.9264	$ 1.4939	$ 19.4202	Line 24
26	85C	00	$ 54.6065	$ 4.5505	$ 59.1570	Line 25

001350

	A	B	C	D	E
1	Tennessee				
2	OC-12 ELECTRONICS				
3	Study Period: 2000-2002				
4					
5	Element #: A.16.4 & A.16.5				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**CENTRAL OFFICE**				
9					
10	C.O. Interface OC- 3 on OC-12	257C	09	Input Sheet Line 12	$ 3,561.8000
11	LGX - OC-12	257C	03	Input Sheet Line 26	$ 11.1280
12	Pigtail - OC-12	257C	03	Input Sheet Line 29	$ 7.5000
13					
14	C.O. Node - OC-12	257C	03	Input Sheet Line 14	$ 462.2561
15	C.O. Node - OC-12	257C	06	Input Sheet Line 15	$ 5,818.8110
16					
17	Data Communications - OC-12	257C	15	Input Sheet Line 24	$ 268.5976
18					
19	TOTAL			Sum Lines 10 Thru 17	$ 10,130.0927
20					
21	**POINT OF TERMINATION (CP)**				
22					
23	C.P. Interface OC- 3 on OC-12	257C	25	Input Sheet Line 18	$ 3,561.8000
24	LTIE - Fiber Only	257C	19	Input Sheet Line 28	$ 133.0000
25	Pigtail - OC-12	257C	19	Input Sheet Line 29	$ 7.5000
26					
27	C.P. Node - OC-12	257C	19	Input Sheet Line 20	$ 462.2561
28	C.P. Node - OC-12	257C	22	Input Sheet Line 21	$ 5,818.8110
29					
30	Battery Back-up - OC-12 (CP)	257C	19	Input Sheet Line 8	$ 650.6098
31	Battery Back-up - OC-12 (CP)	357C	22	Input Sheet Line 9	$ 490.2439
32					
33	Fiber Building Entrance Cable (LC) - OC-12	812C	00	Input Sheet Line 31	$ 203.0694
34					
35	TOTAL			Sum Lines 23 Thru 33	$ 11,327.2901
36					
37					
38	**SUMMARY BY FRC**				
39					
40	Digtl Circ C.O. - Hardwired	257C	03	Sum Lines 11, 12, 14	$ 480.8841
41	Digtl Circ C.O. - Com. Plug-in	257C	06	Lines 15	$ 5,818.8110
42	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 10	$ 3,561.8000
43	Digtl Circ C.O. - Combined	257C	15	Line 17	$ 268.5976
44	Digtl Circ Prem - Hardwired	257C	19	Sum Lines 24, 25, 27, 30	$ 1,253.3659
45	Digtl Circ Prem - Com. Plug-in	257C	22	Lines 28, 31	$ 6,309.0549
46	Digtl Circ Prem - Def. Plug-in	257C	25	Line 23	$ 3,561.8000
47	Fiber Bldg. Entrance Cable	812C	00	Line 33	$ 203.0694
48	TOTAL OC-03 LOCAL LOOP			Sum Lines 40 Thru 47	$ 21,457.3828
49					
50					
51	Probability of Occurrence OC-12			Input Sheet Line 44	75%
52					
53	**SUMMARY BY FRC - WEIGHTED**				
54					
55	Digtl Circ C.O. - Hardwired	257C	03	Line 51 * Line 40	$ 360.6631
56	Digtl Circ C.O. - Com. Plug-in	257C	06	Line 51 * Line 41	$ 4,364.1082
57	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 51 * Line 42	$ 2,671.3500
58	Digtl Circ C.O. - Combined	257C	15	Line 51 * Line 43	$ 201.4482
59	Digtl Circ Prem - Hardwired	257C	19	Line 51 * Line 44	$ 940.0244
60	Digtl Circ Prem - Com. Plug-in	257C	22	Line 51 * Line 45	$ 4,731.7912
61	Digtl Circ Prem - Def. Plug-in	257C	25	Line 51 * Line 46	$ 2,671.3500
62	Fiber Bldg. Entrance Cable	812C	00	Line 51 * Line 47	$ 152.3020
63	TOTAL OC-3 LOCAL LOOP (WEIGHTED)			Sum Lines 55 Thru 62	$ 16,093.0371

	A	B	C	D	E
1	Tennessee				
2	OC-12 TRANSPORT				
3	Study Period: 2000-2002				
4					
5	Element #: A.16.4 & A.16.5				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**MATERIAL PER MILE PER STRAND (ROUTE)**				
9					
10	Aerial Fiber - Per Wgtd Fiber Mile - OC-12 (LC)	822C	00	Input Sheet Line 33	$ 21.6790
11	Buried Fiber - Per Wgtd Fiber Mile - OC-12 (LC)	845C	00	Input Sheet Line 35	$ 5.9457
12	UG Fiber - Per Wgtd Fiber Mile - OC-12 (LC)	85C	00	Input Sheet Line 37	$ 18.1116
13					
14	Number of Strands per Ring			Input Sheet Line 42	3
15					
16	Probability of Occurrence OC-12			Input Sheet Line 44	75%
17					
18	Route to Air Ratio (RTA)			Input Sheet Line 40	1.34
19					
20					
21	**WEIGHTED MATERIAL PER MILE PER STRAND (AIR)**				
22					
23	Aerial Fiber - Per Wgtd Fiber Mile - OC-12 (LC)	822C	00	Line 10 * Line 14 * Line 16 * Line 18	$ 65.3623
24	Buried Fiber - Per Wgtd Fiber Mile - OC-12 (LC)	845C	00	Line 11 * Line 14 * Line 16 * Line 18	$ 17.9264
25	UG Fiber - Per Wgtd Fiber Mile - OC-12 (LC)	85C	00	Line 12 * Line 14 * Line 16 * Line 18	$ 54.6065

001352

	A	B	C	D	E
1	Tennessee				
2	OC-48 ELECTRONICS				
3	Study Period: 2000-2002				
4					
5	Element #: A.16.4 & A.16.5				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**CENTRAL OFFICE**				
9					
10	C.O. Interface OC- 3 on OC-48	257C	09	Input Sheet Line 13	$ 6,969.9073
11	LGX - OC-48	257C	03	Input Sheet Line 27	$ 2.7820
12	Pigtail - OC-48	257C	03	Input Sheet Line 30	$ 2.2866
13					
14	C.O. Node - OC-48 Term	257C	03	Input Sheet Line 16	$ 1,234.4970
15	C.O. Node - OC-48 Term	257C	06	Input Sheet Line 17	$ 2,129.3979
16					
17	Data Communications - OC-48	257C	15	Input Sheet Line 25	$ 67.1494
18					
19	TOTAL			Sum Lines 10 Thru 17	$ 10,406.0201
20					
21	**POINT OF TERMINATION (CP)**				
22					
23	C.P. Interface OC- 3 on OC-48	257C	25	Input Sheet Line 19	$ 6,969.9073
24	LTIE - Fiber Only	257C	19	Input Sheet Line 28	$ 133.0000
25	Pigtail - OC-48	257C	19	Input Sheet Line 30	$ 2.2866
26					
27	C.P. Node - OC-48 Term	257C	19	Input Sheet Line 22	$ 1,234.4970
28	C.P. Node - OC-48 Term	257C	22	Input Sheet Line 23	$ 2,129.3979
29					
30	Battery Back-up - OC-48 (CP)	257C	19	Input Sheet Line 10	$ 325.3049
31	Battery Back-up - OC-48 (CP)	257C	22	Input Sheet Line 11	$ 245.1220
32					
33	Fiber Building Entrance Cable (LC) - OC-48	812C	00	Input Sheet Line 32	$ 50.7673
34					
35	TOTAL			Sum Lines 23 Thru 33	$ 11,090.2829
36					
37					
38	**SUMMARY BY FRC**				
39					
40	Digtl Circ C.O. - Hardwired	257C	03	Sum Lines 11, 12, 14	$ 1,239.5655
41	Digtl Circ C.O. - Com. Plug-in	257C	06	Lines 15	$ 2,129.3979
42	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 10	$ 6,969.9073
43	Digtl Circ C.O. - Combined	257C	15	Line 17	$ 67.1494
44	Digtl Circ Prem - Hardwired	257C	19	Sum Lines 24, 25, 27, 30	$ 1,695.0884
45	Digtl Circ Prem - Com. Plug-in	257C	22	Lines 28, 31	$ 2,374.5198
46	Digtl Circ Prem - Def. Plug-in	257C	25	Line 23	$ 6,969.9073
47	Fiber Bldg. Entrance Cable	812C	00	Line 33	$ 50.7673
48	TOTAL OC-03 LOCAL LOOP			Sum Lines 40 Thru 47	$ 21,496.3030
49					
50					
51	Probability of Occurrence OC-48			Input Sheet Line 45	25%
52					
53					
54					
55	Digtl Circ C.O. - Hardwired	257C	03	Line 51 * Line 40	$ 309.8914
56	Digtl Circ C.O. - Com. Plug-in	257C	06	Line 51 * Line 41	$ 532.3495
57	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 51 * Line 42	$ 1,742.4768
58	Digtl Circ C.O. - Combined	257C	15	Line 51 * Line 43	$ 16.7873
59	Digtl Circ Prem - Hardwired	257C	19	Line 51 * Line 44	$ 423.7721
60	Digtl Circ Prem - Com. Plug-in	257C	22	Line 51 * Line 45	$ 593.6300
61	Digtl Circ Prem - Def. Plug-in	257C	25	Line 51 * Line 46	$ 1,742.4768
62	Fiber Bldg. Entrance Cable	812C	00	Line 51 * Line 47	$ 12.6918
63	TOTAL DS3 LOCAL LOOP (WEIGHTED)			Sum Lines 55 Thru 62	$ 5,374.0758

	A	B	C	D	E
1	Tennessee				
2	OC-48 TRANSPORT				
3	Study Period: 2000-2002				
4					
5	Element #: A.16.4 & A.16.5				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**MATERIAL PER MILE PER STRAND (ROUTE)**				
9					
10	Aerial Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	822C	00	Input Sheet Line 34	$ 5.4198
11	Buried Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	845C	00	Input Sheet Line 36	$ 1.4864
12	UG Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	85C	00	Input Sheet Line 38	$ 4.5279
13					
14	Number of Strands per Ring			Input Sheet Line 42	3
15					
16	Probability of Occurrence OC-48			Input Sheet Line 45	25%
17					
18	Route to Air Ratio (RTA)			Input Sheet Line 40	1.34
19					
20					
21	**WEIGHTED MATERIAL PER MILE PER STRAND (AIR)**				
22					
23	Aerial Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	822C	00	Line 10 * Line 14 * Line 16 * Line 18	$ 5.4469
24	Buried Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	845C	00	Line 11 * Line 14 * Line 16 * Line 18	$ 1.4939
25	UG Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	85C	00	Line 12 * Line 14 * Line 16 * Line 18	$ 4.5505

Tennessee
Index Sheet
Study Period: 2000-2002

Element #: A.16.7 & A.16.8

Sheet Name:	Description:
Index	0C-12 LOCAL LOOP
Investments	CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA
Additives_Recurring	CALCULATOR INPUT FORM - RECURRING EXPENSES DATA
Additives_Nonrecurring	CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA
Recurring Labor	CALCULATOR INPUT FORM - RECURRING LABOR EXPENSES DATA
Nonrecurring Labor	CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES
Input Nonrecurring	NONRECURRING WORKTIMES
Input Recurring	RECURRING INPUTS
WP311	OC-12 ELECTRONICS
WP312	OC-12 TRANSPORT

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	A	B	C	D	E	F
1		**CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA**				
2						
3		**Instructions:**				
4		**1. Use this worksheet to record material and/or investments to be input into the**				
5		**Calculator calculations.**				
6		**2. All amounts shown are per unit (e.g., per call, per loop, per MOU).**				
7		**3. Input data, by Cost Element, leaving no blank lines. On next row**				
8		**after last line of data, type END in Cost Element Column.**				
9		**4. All data on this form should be cell-referenced to study workpapers.**				
10		**5. Do NOT change columns, headings, sheet name.**				
11						
12					**Volume**	**Volume**
13		**Cost**		**Sub**	**Sensitive**	**Insensitive**
14	**State**	**Element #**	**FRC**	**FRC**	**$ Amount**	**$ Amount**
15	TN	A.16.7	257C	03	$ 4,899.5427	
16	TN	A.16.7	257C	06	$ 8,517.5915	
17	TN	A.16.7	257C	09	$ 23,325.5000	
18	TN	A.16.7	257C	15	$ 220.2500	
19	TN	A.16.7	257C	19	$ 5,672.0244	
20	TN	A.16.7	257C	22	$ 9,007.8354	
21	TN	A.16.7	257C	25	$ 23,325.5000	
22	TN	A.16.7	812C	00	$ 203.0694	
23	TN	A.16.8	822C	00	$ 87.1497	
24	TN	A.16.8	845C	00	$ 23.9018	
25	TN	A.16.8	85C	00	$ 72.8086	
26		END				

001356

	A	B	C	D	E	F	G	H
1		**CALCULATOR INPUT FORM - RECURRING EXPENSES DATA**						
2								
3		**Instructions:**						
4		**1. Use this worksheet to record recurring non-labor expenses to be input into the**						
5		**Calculator calculations.**						
6		**2. All amounts shown are per unit (e.g., per call, per loop, per MOU).**						
7		**3. Input data, by Cost Element, leaving no blank lines. On next row**						
8		**after last line of data, type END in Cost Element Column.**						
9		**4. All data on this form should be cell-referenced to study workpapers.**						
10		**5. Do NOT change columns, headings, sheet name.**						
11								
12								
13								
14				**Recurring**	**Recurring**			
15			**Recurring**	**Volume**	**Volume**			
16		**Cost**	**Expense Description**	**Sensitive**	**Insensitive**			
17	**State**	**Element #**	**(Limited to 25 characters)**	**$ Amount**	**$ Amount**			
18	TN							
19		END						
20								
21								
22								
23								
24								
25								
26								
27								
28								
29			Maximum 10 entries per Cost Element #					
30								

001357

CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA

Instructions:

1. Use this worksheet to record nonrecurring non-labor expenses to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.
6. Use column D when cost element has a single nonrecurring cost; use columns E & F for elements with a first and additional nonrecurring cost; use columns G & H for elements with an initial and subsequent nonrecurring cost.

State	Cost Element #	Nonrecurring Expense Description (Limited to 25 characters)	Nonrecurring $ Amount	Nonrecurring First $ Amount	Nonrecurring Additional $ Amount	Nonrecurring Initial $ Amount	Nonrecurring Subsequent $ Amount
TN							
	END						

Maximum 10 entries per Cost Element #

001358

CALCULATOR INPUT FORM - RECURRING LABOR EXPENSES DATA

Instructions:

1. Use this worksheet to record recurring expensed labor times to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.

State	Cost Element #	Labor Expense Description (Limited to 25 characters)	JFC/ Payband	Work Time (Hours) Volume Sensitive	Work Time (Hours) Volume Insensitive
TN					
	END				

Maximum 20 entries per Cost Element #

001359

CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES

Instructions:
1. Use this worksheet to record nonrecurring labor times to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.
6. Use columns F & G when cost element has a single nonrecurring cost; use columns H, I, J, & K for elements with a first and additional nonrecurring cost; use columns L, M, N & O for elements with an initial and subsequent nonrecurring cost.
7. Input Cost Element Life (in months) on first row of data for each cost element. It is not necessary to repeat on each line.

Study Mid-Point Date (Mos.): 6/1/2001

State	Cost Element #	Cost Element Life (Mo)	Labor Expense Description (Limited to 25 characters)	JFC/ Payband	(For use w/ one NR) Installation Time (Hours)	(For use w/ one NR) Disconnect Time Hours	First Installation Time (Hours)	First Disconnect Time Hours	Additional Installation Time (Hours)	Additional Disconnect Time Hours	Initial Installation Time (Hours)	Initial Disconnect Time Hours	Subsequent Installation Time (Hours)	Subsequent Disconnect Time Hours
TN	A.16.7	52	Service Inquiry	SDWC			2.0000	0.0000	0.0000	0.0000				
TN	A.16.7	52	Service Inquiry	34XX			12.0000	0.0000	0.0000	0.0000				
TN	A.16.7	52	Service Order	4AXX			0.0600	0.0000	0.0600	0.0000				
TN	A.16.7	52	Service Order	4N4X			0.1118	0.0000	0.0000	0.0000				
TN	A.16.7	52	Service Order	4WXX			0.2500	0.0000	0.0500	0.0000				
TN	A.16.7	52	Service Order	430X			0.1333	0.0000	0.0833	0.0000				
TN	A.16.7	52	Engineering	32XX			2.0833	0.0000	2.0833	0.0000				
TN	A.16.7	52	Engineering	3A2X			0.0333	0.0000	0.0000	0.0000				
TN	A.16.7	52	Engineering	4N4X			1.6640	0.0000	1.6640	0.0000				
TN	A.16.7	52	Connect	431X			1.4920	0.0000	1.4920	0.0000				
TN	A.16.7	52	Connect	4AXX			1.1400	0.0000	1.1400	0.0000				
TN	A.16.798	52	Test	431X			2.2380	0.0000	2.2380	0.0000				
TN	A.16.798	52	Test	4AXX			1.1400	0.0000	1.1400	0.0000				
TN	A.16.7	52	Service Order	230X			0.0175	0.0000	0.0175	0.0000				
TN	A.16.9	52	Service Order	230X			1.1783	0.0000	1.1783	0.0000				
TN	A.16.799	52	Service Order	4AXX			0.0000	0.1800	0.0000	0.1800				
TN	A.16.799	52	Service Order	4N4X			0.0000	0.0412	0.0000	0.0000				
TN	A.16.799	52	Service Order	430X			0.0000	0.1166	0.0000	0.1166				
TN	A.16.799	52	Engineering	3A2X			0.0000	0.0333	0.0000	0.0000				
TN	A.16.799	52	Engineering	4N4X			0.0000	0.2626	0.0000	0.2626				
TN	A.16.799	52	Connect	431X			0.0000	1.5966	0.0000	1.5966				
TN	A.16.799	52	Service Order	230X			0.0000	0.0175	0.0000	0.0175				
TN	A.16.999	52	Service Order	230X			0.0000	0.5100	0.0000	0.5100				
	END													

001360

	A	B	C	D	E	F	G	H
1	Tennessee							
2	NONRECURRING WORKTIMES							
3	Study Period: 2000-2002							
4								
5	Element #: A.16.7 & A.16.8				First	First	Additional	Additional
6	Item/Description				Install	Disconnect	Install	Disconnect
7	Work Group	Description	JFC / JG / WS	Source	Time Hrs	Time Hrs	Time Hrs	Time Hrs
8								
9	COMPLEX RESALE SUPPORT GROUP (CRSG)	Service Inquiry	SDWC	NETWORK	2.0000	0.0000	0.0000	0.0000
10	NETWORK & ENGINEERING PLANNING (FG20)	Service Inquiry	34XX	NETWORK	12.0000	0.0000	0.0000	0.0000
11								
12	ACCESS CUSTOMER ADVOCATE CENTER (UNEC)	Service Order	4AXX	NETWORK	0.0600	0.1800	0.0600	0.1800
13	CIRCUIT PROVISIONING GROUP (CPG)	Service Order	4N4X	NETWORK	0.1118	0.0412	0.0000	0.0000
14	WORK MANAGEMENT CENTER	Service Order	4WXX	NETWORK	0.2500	0.0000	0.0500	0.0000
15	CO INSTALL & MTCE-SWITCH EQUIP	Service Order	430X	NETWORK	0.1333	0.1166	0.0833	0.1166
16								
17	OUTSIDE PLANT ENGINEERING (FG30)	Engineering	32XX	NETWORK	2.0833	0.0000	2.0833	0.0000
18	NETWORK PLANNING & ENGINEERING (PICS)	Engineering	3A2X	NETWORK	0.0333	0.0333	0.0000	0.0000
19	CIRCUIT PROVISIONING CENTER (CPG)	Engineering	4N4X	NETWORK	1.6640	0.2626	1.6640	0.2626
20								
21	CO INSTALL & MTCE CKT & FAC (INTEL)	Connect	431X	NETWORK	1.4920	1.5966	1.4920	1.5966
22	ACCESS CUSTOMER ADVOCATE CENTER (UNEC)	Connect	4AXX	NETWORK	1.1400	0.0000	1.1400	0.0000
23								
24	CO INSTALL & MTCE CKT & FAC (INTEL)	Test	431X	NETWORK	2.2380	0.0000	2.2380	0.0000
25	ACCESS CUSTOMER ADVOCATE CENTER (UNEC)	Test	4AXX	NETWORK	1.1400	0.0000	1.1400	0.0000
26								
27	CUSTOMER POINT OF CONTACT (LCSC) TOTAL TIME	Service Order	230X	NETWORK	1.1958	0.5275	1.1958	0.5275
28	WORK TIME ELECTRONIC INTERFACE	Service Order	230X	NETWORK	0.0175	0.0175	0.0175	0.0175
29	MANUAL ADDITIVE	Service Order	230X		1.1783	0.5100	1.1783	0.5100
30								
31	COST ELEMENT LIFE IN MONTHS			52				

001361

	A	B	C	D	E
1	Tennessee				
2	RECURRING INPUTS				
3	Study Period: 2000-2002				
4					
5	Element #: A.16.7 & A.16.8				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	Battery Back-up - OC-48 (CP)	257C	19	SONET Price Calculator	$ 650.6098
9	Battery Back-up - OC-48 (CP)	257C	22	SONET Price Calculator	$ 490.2439
10	C.O. Interface OC-12 on OC-48	257C	09	SONET Price Calculator	$ 23,325.5000
11	C.O. Node - OC-48 Term	257C	03	SONET Price Calculator	$ 4,879.2683
12	C.O. Node - OC-48 Term	257C	06	SONET Price Calculator	$ 8,517.5915
13	C.P. Interface OC-12 on OC-48	257C	25	SONET Price Calculator	$ 23,325.5000
14	C.P. Node - OC-48 Term	257C	19	SONET Price Calculator	$ 4,879.2683
15	C.P. Node - OC-48 Term	257C	22	SONET Price Calculator	$ 8,517.5915
16	Data Communications - OC-48	257C	15	SONET Price Calculator	$ 220.2500
17	LGX - OC-48	257C	03	SONET Price Calculator	$ 11.1280
18	LTIE - Fiber Only	257C	19	SONET Price Calculator	$ 133.0000
19	Pigtail - OC-48	257C	03	SONET Price Calculator	$ 9.1463
20	Pigtail - OC-48 (CP)	257C	19	SONET Price Calculator	$ 9.1463
21	Fiber Building Entrance Cable (LC) - OC-48	812C	00	SONET Price Calculator	$ 203.0694
22	Aerial Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	822C	00	SONET Price Calculator	$ 21.6790
23	Buried Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	845C	00	SONET Price Calculator	$ 5.9457
24	UG Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	85C	00	SONET Price Calculator	$ 18.1116
25					
26	Route to Air Ratio (RTA)			Network	1.34
27					
28	Number of Strands per Ring				3

001362

	A	B	C	D	E
1	Tennessee				
2	OC-12 ELECTRONICS				
3	Study Period: 2000-2002				
4					
5	Element #: A.16.7 & A.16.8				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**CENTRAL OFFICE**				
9					
10	C.O. Interface OC-12 on OC-48	257C	09	Input Sheet Line 10	$ 23,325.5000
11					
12	C.O. Node - OC-48 Term	257C	03	Input Sheet Line 11	$ 4,879.2683
13	C.O. Node - OC-48 Term	257C	06	Input Sheet Line 12	$ 8,517.5915
14					
15	LGX - OC-48	257C	03	Input Sheet Line 17	$ 11.1280
16	Pigtail - OC-48	257C	03	Input Sheet Line 19	$ 9.1463
17					
18	Data Communications - OC-48	257C	15	Input Sheet Line 16	$ 220.2500
19					
20	TOTAL			Sum Lines 10 Thru 18	$ 36,962.8841
21					
22	**POINT OF TERMINATION (CP)**				
23					
24	C.P. Interface OC-12 on OC-48	257C	25	Input Sheet Line 13	$ 23,325.5000
25					
26	Battery Back-up - OC-48 (CP)	257C	19	Input Sheet Line 8	$ 650.6098
27	Battery Back-up - OC-48 (CP)	257C	22	Input Sheet Line 9	$ 490.2439
28					
29	C.P. Node - OC-48 Term	257C	19	Input Sheet Line 14	$ 4,879.2683
30	C.P. Node - OC-48 Term	257C	22	Input Sheet Line 15	$ 8,517.5915
31					
32	Pigtail - OC-48 (CP)	257C	19	Input Sheet Line 20	$ 9.1463
33					
34	LTIE - Fiber Only	257C	19	Input Sheet Line 18	$ 133.0000
35					
36	Fiber Building Entrance Cable (LC) - OC-48	812C	00	Input Sheet Line 21	$ 203.0694
37					
38	TOTAL			Sum Lines 24 Thru 36	$ 38,208.4291
39					
40					
41	**SUMMARY BY FRC**				
42					
43	Digtl Circ C.O. - Hardwired	257C	03	Sum Lines 12, 15, 16	$ 4,899.5427
44	Digtl Circ C.O. - Com. Plug-in	257C	06	Lines 13	$ 8,517.5915
45	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 10	$ 23,325.5000
46	Digtl Circ C.O. - Combined	257C	15	Line 18	$ 220.2500
47	Digtl Circ Prem - Hardwired	257C	19	Sum Lines 26, 29, 32, 34	$ 5,672.0244
48	Digtl Circ Prem - Com. Plug-in	257C	22	Lines 27, 30	$ 9,007.8354
49	Digtl Circ Prem - Def. Plug-in	257C	25	Line 24	$ 23,325.5000
50	Fiber Bldg. Entrance Cable	812C	00	Line 36	$ 203.0694
51	TOTAL OC-12 LOCAL LOOP			Sum Lines 43 Thru 50	$ 75,171.3133

001363

	A	B	C	D	E
1	Tennessee				
2	OC-12 TRANSPORT				
3	Study Period: 2000-2002				
4					
5	Element #: A.16.7 & A.16.8				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**MATERIAL PER MILE PER STRAND (ROUTE)**				
9					
10	Aerial Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	822C	00	Input Sheet Line 22	$ 21.6790
11	Buried Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	845C	00	Input Sheet Line 23	$ 5.9457
12	UG Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	85C	00	Input Sheet Line 24	$ 18.1116
13					
14	Number of Strands per Ring			Input Sheet Line 28	3
15					
16	Route to Air Ratio (RTA)			Input Sheet Line 26	1.34
17					
18	**WEIGHTED MATERIAL PER MILE PER STRAND (AIR)**				
19					
20	Aerial Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	822C	00	Line 10 * Line 14 * Line 16	$ 87.1497
21	Buried Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	845C	00	Line 11 * Line 14 * Line 16	$ 23.9018
22	UG Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	85C	00	Line 12 * Line 14 * Line 16	$ 72.8086

001364

Tennessee
Index Sheet
Study Period: 2000-2002

Element #: A.6.10, A.6.11 & A.6.13

Sheet Name:	Description:
Index	0C-48 LOCAL LOOP
Investments	CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA
Additives_Recurring	CALCULATOR INPUT FORM - RECURRING EXPENSES DATA
Additives_Nonrecurring	CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA
Recurring Labor	CALCULATOR INPUT FORM - RECURRING LABOR EXPENSES DATA
Nonrecurring Labor	CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES
Input Nonrecurring	NONRECURRING WORKTIMES
Input Recurring	RECURRING INPUTS
WP311	OC-48 ELECTRONICS
WP312	OC-48 TRANSPORT

001365

CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA

Instructions:

1. Use this worksheet to record material and/or investments to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.

State	Cost Element #	FRC	Sub FRC	Volume Sensitive $ Amount	Volume Insensitive $ Amount
TN	A.16.13	257C	03	$ 20.2744	
TN	A.16.10	257C	03	$ 10,167.4000	
TN	A.16.10	257C	06	$ 32,888.0000	
TN	A.16.13	257C	09	$ 23,325.5000	
TN	A.16.10	257C	15	$ 881.0000	
TN	A.16.10	257C	19	$ 133.0000	
TN	A.16.10	812C	00	$ 666.0676	
TN	A.16.11	822C	00	$ 285.8510	
TN	A.16.11	845C	00	$ 78.3980	
TN	A.16.11	85C	00	$ 238.8122	
	END				

001366

	A	B	C	D	E	F	G	H
1		**CALCULATOR INPUT FORM - RECURRING EXPENSES DATA**						
2								
3		**Instructions:**						
4		**1. Use this worksheet to record recurring non-labor expenses to be input into the**						
5		**Calculator calculations.**						
6		**2. All amounts shown are per unit (e.g., per call, per loop, per MOU).**						
7		**3. Input data, by Cost Element, leaving no blank lines. On next row**						
8		**after last line of data, type END in Cost Element Column.**						
9		**4. All data on this form should be cell-referenced to study workpapers.**						
10		**5. Do NOT change columns, headings, sheet name.**						
11								
12								
13								
14				**Recurring**	**Recurring**			
15			**Recurring**	**Volume**	**Volume**			
16		**Cost**	**Expense Description**	**Sensitive**	**Insensitive**			
17	**State**	**Element #**	**(Limited to 25 characters)**	**$ Amount**	**$ Amount**			
18	TN							
19		END						
20								
21								
22								
23								
24								
25								
26								
27								
28								
29			Maximum 10 entries per Cost Element #					
30								

001367

CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA

Instructions:

1. **Use this worksheet to record nonrecurring non-labor expenses to be input into the Calculator calculations.**
2. **All amounts shown are per unit (e.g., per call, per loop, per MOU).**
3. **Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.**
4. **All data on this form should be cell-referenced to study workpapers.**
5. **Do NOT change columns, headings, sheet name.**
6. **Use column D when cost element has a single nonrecurring cost; use columns E & F for elements with a first and additional nonrecurring cost; use columns G & H for elements with an initial and subsequent nonrecurring cost.**

State	Cost Element #	Nonrecurring Expense Description (Limited to 25 characters)	Nonrecurring $ Amount	Nonrecurring First $ Amount	Nonrecurring Additional $ Amount	Nonrecurring Initial $ Amount	Nonrecurring Subsequent $ Amount
TN							
	END						

Maximum 10 entries per Cost Element #

CALCULATOR INPUT FORM - RECURRING LABOR EXPENSES DATA

Instructions:

1. Use this worksheet to record recurring expensed labor times to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.

State	Cost Element #	Labor Expense Description (Limited to 25 characters)	JFC/ Payband	Work Time (Hours) Volume Sensitive	Work Time (Hours) Volume Insensitive
TN					
	END				

Maximum 20 entries per Cost Element #

001369

CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES

Instructions:

1. Use this worksheet to record nonrecurring labor times to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.
6. Use columns F & G when cost element has a single nonrecurring cost; use columns H, I, J, & K for elements with a first and additional nonrecurring cost; use columns L, M, N & O for elements with an initial and subsequent nonrecurring cost.
7. Input Cost Element Life (in months) on first row of data for each cost element. It is not necessary to repeat on each line.

Study Mid-Point Date (Mos.) Jun-01

State	Cost Element #	Cost Element Life (Mo)	Labor Expense Description (Limited to 25 characters)	JFC/ Payband	(For use w/ one NR) Installation Time (Hours)	(For use w/ one NR) Disconnect Time Hours	First Installation Time (Hours)	First Disconnect Time Hours	Additional Installation Time (Hours)	Additional Disconnect Time Hours	Initial Installation Time (Hours)	Initial Disconnect Time Hours	Subsequent Installation Time (Hours)	Subsequent Disconnect Time Hours
TN	A.16.10	52	Service Inquiry	SDWC			2.0000	0.0000	0.0000	0.0000				
TN	A.16.10	52	Service Inquiry	34XX			12.0000	0.0000	0.0000	0.0000				
TN	A.16.10	52	Service Order	4AXX			0.0600	0.0000	0.0600	0.0000				
TN	A.16.10	52	Service Order	4N4X			0.1118	0.0000	0.0000	0.0000				
TN	A.16.10	52	Service Order	4WXX			0.2500	0.0000	0.0500	0.0000				
TN	A.16.10	52	Service Order	430X			0.1333	0.0000	0.0833	0.0000				
TN	A.16.10	52	Engineering	32XX			2.0833	0.0000	2.0833	0.0000				
TN	A.16.10	52	Engineering	3A2X			0.0333	0.0000	0.0000	0.0000				
TN	A.16.10	52	Engineering	4N4X			1.6640	0.0000	1.6640	0.0000				
TN	A.16.10	52	Connect	431X			1.4920	0.0000	1.4920	0.0000				
TN	A.16.10	52	Connect	4AXX			0.9500	0.0000	0.9500	0.0000				
TN	A.16.10	52	Engineering	34XX			4.0000	0.0000	0.0000	0.0000				
TN	A.16.10	52	Service Order	230X			0.0175	0.0000	0.0175	0.0000				
TN	A.16.12	52	Service Order	230X			1.1783	0.0000	1.1783	0.0000				
TN	A.16.1098	52	Test	431X			2.2380	0.0000	2.2380	0.0000				
TN	A.16.1098	52	Test	4AXX			0.9500	0.0000	0.9500	0.0000				
TN	A.16.13	52	Service Order	4AXX			0.0600	0.0000	0.0600	0.0000				
TN	A.16.13	52	Service Order	4N4X			0.1118	0.0000	0.0000	0.0000				
TN	A.16.13	52	Service Order	4WXX			0.2500	0.0000	0.0500	0.0000				
TN	A.16.13	52	Service Order	430X			0.1333	0.0000	0.0833	0.0000				
TN	A.16.13	52	Engineering	3A2X			0.0333	0.0000	0.0000	0.0000				
TN	A.16.13	52	Engineering	4N4X			1.6640	0.0000	1.6640	0.0000				
TN	A.16.13	52	Connect	431X			1.4920	0.0000	1.4920	0.0000				
TN	A.16.13	52	Connect	4AXX			0.9500	0.0000	0.9500	0.0000				
TN	A.16.13	52	Service Order	230X			0.0175	0.0000	0.0175	0.0000				
TN	A.16.14	52	Service Order	230X			1.1783	0.0000	1.1783	0.0000				
TN	A.16.1398	52	Test	431X			2.2380	0.0000	2.2380	0.0000				
TN	A.16.1398	52	Test	4AXX			0.9500	0.0000	0.9500	0.0000				
TN	A.16.1099	52	Service Order	4AXX			0.0000	0.1800	0.0000	0.1800				
TN	A.16.1099	52	Service Order	4N4X			0.0000	0.0412	0.0000	0.0000				
TN	A.16.1099	52	Service Order	430X			0.0000	0.1166	0.0000	0.1166				
TN	A.16.1099	52	Engineering	3A2X			0.0000	0.0333	0.0000	0.0000				
TN	A.16.1099	52	Engineering	4N4X			0.0000	0.2626	0.0000	0.2626				
TN	A.16.1099	52	Connect	431X			0.0000	1.5966	0.0000	1.5966				
TN	A.16.1099	52	Service Order	230X			0.0000	0.0175	0.0000	0.0175				
TN	A.16.1099	52	Service Order	230X			0.0000	0.5100	0.0000	0.5100				
TN	A.16.1399	52	Service Order	4AXX			0.0000	0.1800	0.0000	0.1800				
TN	A.16.1399	52	Service Order	4N4X			0.0000	0.0412	0.0000	0.0000				
TN	A.16.1399	52	Service Order	430X			0.0000	0.1166	0.0000	0.1166				
TN	A.16.1399	52	Engineering	3A2X			0.0000	0.0333	0.0000	0.0000				
TN	A.16.1399	52	Engineering	4N4X			0.0000	0.2626	0.0000	0.2626				
TN	A.16.1399	52	Connect	431X			0.0000	1.5966	0.0000	1.5966				
TN	A.16.1399	52	Service Order	230X			0.0000	0.0175	0.0000	0.0175				
TN	A.16.1499	52	Service Order	230X			0.0000	0.5100	0.0000	0.5100				
END														

Maximum of 25 entries per Cost Element #

	A	B	C	D	E	F	G	H
1	Tennessee							
2	NONRECURRING WORKTIMES							
3	Study Period: 2000-2002							
4								
5	Element #: A.6.10, A.6.11 & A.6.13				First	First	Additional	Additional
6	Item/Description				Install	Disconnect	Install	Disconnect
7	Work Group	Description	JFC / JG / WS	Source	Time Hrs	Time Hrs	Time Hrs	Time Hrs
8								
9	COMPLEX RESALE SUPPORT GROUP (CRSG)	Service Inquiry	SDWC	NETWORK	2.0000	0.0000	0.0000	0.0000
10	NETWORK & ENGINEERING PLANNING (FG20)	Service Inquiry	34XX	NETWORK	12.0000	0.0000	0.0000	0.0000
11								
12	ACCESS CUSTOMER ADVOCATE CENTER (UNEC)	Service Order	4AXX	NETWORK	0.0600	0.1800	0.0600	0.1800
13	CIRCUIT PROVISIONING GROUP (CPG)	Service Order	4N4X	NETWORK	0.1118	0.0412	0.0000	0.0000
14	WORK MANAGEMENT CENTER	Service Order	4WXX	NETWORK	0.2500	0.0000	0.0500	0.0000
15	CO INSTALL & MTCE-SWITCH EQUIP	Service Order	430X	NETWORK	0.1333	0.1166	0.0833	0.1166
16								
17	OUTSIDE PLANT ENGINEERING (FG30)	Engineering	32XX	NETWORK	2.0833	0.0000	2.0833	0.0000
18	NETWORK PLANNING & ENGINEERING (PICS)	Engineering	3A2X	NETWORK	0.0333	0.0333	0.0000	0.0000
19	CIRCUIT PROVISIONING CENTER (CPG)	Engineering	4N4X	NETWORK	1.6640	0.2626	1.6640	0.2626
20								
21	CO INSTALL & MTCE CKT & FAC (INTEL)	Connect	431X	NETWORK	1.4920	1.5966	1.4920	1.5966
22	ACCESS CUSTOMER ADVOCATE CENTER (UNEC)	Connect	4AXX	NETWORK	0.9500	0.0000	0.9500	0.0000
23								
24	CUSTOMER POINT OF CONTACT (LCSC) TOTAL TIME	Service Order	230X	NETWORK	1.1958	0.5275	1.1958	0.5275
25	WORK TIME ELECTRONIC INTERFACE	Service Order	230X	NETWORK	0.0175	0.0175	0.0175	0.0175
26	MANUAL ADDITIVE	Service Order	230X		1.1783	0.5100	1.1783	0.5100
27								
28	CO INSTALL & MTCE CKT & FAC (INTEL)	Test	431X	NETWORK	2.2380	0.0000	2.2380	0.0000
29	ACCESS CUSTOMER ADVOCATE CENTER (UNEC)	Test	4AXX	NETWORK	0.9500	0.0000	0.9500	0.0000
30								
31	**FEATURE ACTIVATION**							
32	ACCESS CUSTOMER ADVOCATE CENTER (UNEC)	Service Order	4AXX	NETWORK	0.0600	0.1800	0.0600	0.1800
33	CIRCUIT PROVISIONING GROUP (CPG)	Service Order	4N4X	NETWORK	0.1118	0.0412	0.0000	0.0000
34	WORK MANAGEMENT CENTER	Service Order	4WXX	NETWORK	0.2500	0.0000	0.0500	0.0000
35	CO INSTALL & MTCE-SWITCH EQUIP	Service Order	430X	NETWORK	0.1333	0.1166	0.0833	0.1166
36								
37	NETWORK & ENGINEERING PLANNING (FG20)	Engineering	34XX	NETWORK	4.0000	0.0000	0.0000	0.0000
38	NETWORK PLANNING & ENGINEERING (PICS)	Engineering	3A2X	NETWORK	0.0333	0.0333	0.0000	0.0000
39	CIRCUIT PROVISIONING CENTER (CPG)	Engineering	4N4X	NETWORK	1.6640	0.2626	1.6640	0.2626
40								
41	CO INSTALL & MTCE CKT & FAC (INTEL)	Connect	431X	NETWORK	1.4920	1.5966	1.4920	1.5966
42	ACCESS CUSTOMER ADVOCATE CENTER (UNEC)	Connect	4AXX	NETWORK	0.9500	0.0000	0.9500	0.0000
43								
44	CUSTOMER POINT OF CONTACT (LCSC) TOTAL TIME	Service Order	230X	NETWORK	1.1958	0.5275	1.1958	0.5275
45	WORK TIME ELECTRONIC INTERFACE	Service Order	230X	NETWORK	0.0175	0.0175	0.0175	0.0175
46	MANUAL ADDITIVE	Service Order	230X		1.1783	0.5100	1.1783	0.5100
47								
48	CO INSTALL & MTCE CKT & FAC (INTEL)	Test	431X	NETWORK	2.2380	0.0000	2.2380	0.0000
49	ACCESS CUSTOMER ADVOCATE CENTER (UNEC)	Test	4AXX	NETWORK	0.9500	0.0000	0.9500	0.0000
50								
51	COST ELEMENT LIFE IN MONTHS			52				

001371

	A	B	C	D	E
1	Tennessee				
2	RECURRING INPUTS				
3	Study Period: 2000-2002				
4					
5	Element #: A.6.10, A.6.11 & A.6.13				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	C.O. Interface OC-12 on OC-48	257C	09	SONET Price Calculator	$ 23,325.5000
9	C.O. Node - OC-48 BLSR	257C	03	SONET Price Calculator	$ 10,167.4000
10	C.O. Node - OC-48 BLSR	257C	06	SONET Price Calculator	$ 32,888.0000
11	Data Communications - OC-48	257C	15	SONET Price Calculator	$ 881.0000
12	LGX - OC-48	257C	03	SONET Price Calculator	$ 11.1280
13	LTIE - Fiber Only	257C	19	SONET Price Calculator	$ 133.0000
14	Pigtail - OC-48	257C	03	SONET Price Calculator	$ 9.1463
15	Fiber Building Entrance Cable (LC) - OC-48	812C	00	SONET Price Calculator	$ 666.0676
16	Aerial Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	822C	00	SONET Price Calculator	$ 71.1072
17	Buried Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	845C	00	SONET Price Calculator	$ 19.5020
18	UG Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	85C	00	SONET Price Calculator	$ 59.4060
19					
20	Route to Air Ratio (RTA)			Network	1.34
21					
22	Number of Strands per Ring				3

001372

	A	B	C	D	E
1	Tennessee				
2	OC-48 ELECTRONICS				
3	Study Period: 2000-2002				
4					
5	Element #: A.6.10, A.6.11 & A.6.13				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**CENTRAL OFFICE**				
9					
10	C.O. Interface OC-12 on OC-48	257C	09	Input Sheet Line 8	$ 23,325.5000
11					
12	C.O. Node - OC-48 BLSR	257C	03	Input Sheet Line 9	$ 10,167.4000
13	C.O. Node - OC-48 BLSR	257C	06	Input Sheet Line 10	$ 32,888.0000
14					
15	LGX - OC-48	257C	03	Input Sheet Line 12	$ 11.1280
16	Pigtail - OC-48	257C	03	Input Sheet Line 14	$ 9.1463
17					
18	Data Communications - OC-48	257C	15	Input Sheet Line 11	$ 881.0000
19					
20	TOTAL			Sum Lines 10 Thru 18	$ 67,282.1744
21					
22	**POINT OF TERMINATION (CP)**				
23					
24	LTIE - Fiber Only	257C	19	Input Sheet Line 13	$ 133.0000
25					
26	Fiber Building Entrance Cable (LC) - OC-48	812C	00	Input Sheet Line 15	$ 666.0676
27					
28	TOTAL			Sum Lines 24 Thru 26	$ 799.0676
29					
30					
31	**SUMMARY BY FRC**				
32					
33	Digtl Circ C.O. - Interface	257C	03	Sum Lines 15, 16	$ 20.2744
34	Digtl Circ C.O. - Hardwired	257C	03	Lines 12	$ 10,167.4000
35	Digtl Circ C.O. - Com. Plug-in	257C	06	Lines 13	$ 32,888.0000
36	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 10	$ 23,325.5000
37	Digtl Circ C.O. - Combined	257C	15	Line 18	$ 881.0000
38	Digtl Circ Prem - Hardwired	257C	19	Line 24	$ 133.0000
39	Fiber Bldg. Entrance Cable	812C	00	Line 26	$ 666.0676
40	TOTAL OC-48 LOCAL LOOP			Sum Lines 33 Thru 39	$ 68,081.2420

001373

	A	B	C	D	E
1	Tennessee				
2	OC-48 TRANSPORT				
3	Study Period: 2000-2002				
4					
5	Element #: A.6.10, A.6.11 & A.6.13				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**MATERIAL PER MILE PER STRAND (ROUTE)**				
9					
10	Aerial Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	822C	00	Input Sheet Line 16	$ 71.1072
11	Buried Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	845C	00	Input Sheet Line 17	$ 19.5020
12	UG Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	85C	00	Input Sheet Line 18	$ 59.4060
13					
14	Number of Strands per Ring			Input Sheet Line 22	3
15					
16	Route to Air Ratio (RTA)			Input Sheet Line 20	1.34
17					
18	**WEIGHTED MATERIAL PER MILE PER STRAND (AIR)**				
19					
20	Aerial Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	822C	00	Line 10 * Line 14 * Line 16	$ 285.8510
21	Buried Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	845C	00	Line 11 * Line 14 * Line 16	$ 78.3980
22	UG Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	85C	00	Line 12 * Line 14 * Line 16	$ 238.8122

	A	B	C	D	E	F	G	H	I	J
1	Tennessee									
2	Index Sheet									
3	Study Period: 2000-2002									
4										
5	Element #: A.16.15 & A.16.16									
6										
7										
8										
9			**Sheet Name:**		**Description:**					
10			Index		STS-1 LOCAL LOOP					
11			Investments		CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA					
12			Additives_Recurring		CALCULATOR INPUT FORM - RECURRING EXPENSES DATA					
13			Additives_Nonrecurring		CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA					
14			Recurring Labor		CALCULATOR INPUT FORM - RECURRING LABOR EXPENSES DATA					
15			Nonrecurring Labor		CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES					
16			Input Nonrecurring		NONRECURRING WORKTIMES					
17			Input Recurring		RECURRING INPUTS					
18			WP300		SUMMARY					
19			WP311		OC-3 ELECTRONICS					
20			WP312		OC-3 TRANSPORT					
21			WP321		OC-12 ELECTRONICS					
22			WP322		OC-12 TRANSPORT					
23			WP331		OC-48 ELECTRONICS					
24			WP332		OC-48 TRANSPORT					

	A	B	C	D	E	F
1		**CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA**				
2						
3		**Instructions:**				
4		**1. Use this worksheet to record material and/or investments to be input into the**				
5		**Calculator calculations.**				
6		**2. All amounts shown are per unit (e.g., per call, per loop, per MOU).**				
7		**3. Input data, by Cost Element, leaving no blank lines. On next row**				
8		**after last line of data, type END in Cost Element Column.**				
9		**4. All data on this form should be cell-referenced to study workpapers.**				
10		**5. Do NOT change columns, headings, sheet name.**				
11						
12					**Volume**	**Volume**
13		**Cost**		**Sub**	**Sensitive**	**Insensitive**
14	**State**	**Element #**	**FRC**	**FRC**	**$ Amount**	**$ Amount**
15	TN	A.16.15	257C	03	$ 517.5941	
16	TN	A.16.15	257C	06	$ 2,998.9527	
17	TN	A.16.15	257C	09	$ 2,073.4110	
18	TN	A.16.15	257C	15	$ 287.6232	
19	TN	A.16.15	257C	19	$ 1,214.2887	
20	TN	A.16.15	257C	22	$ 3,523.9222	
21	TN	A.16.15	257C	25	$ 2,067.8337	
22	TN	A.16.15	812C	00	$ 217.4535	
23	TN	A.16.16	822C	00	$ 93.3228	
24	TN	A.16.16	845C	00	$ 25.5949	
25	TN	A.16.16	85C	00	$ 77.9659	
26		END				

CALCULATOR INPUT FORM - RECURRING EXPENSES DATA

Instructions:

1. **Use this worksheet to record recurring non-labor expenses to be input into the Calculator calculations.**
2. **All amounts shown are per unit (e.g., per call, per loop, per MOU).**
3. **Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.**
4. **All data on this form should be cell-referenced to study workpapers.**
5. **Do NOT change columns, headings, sheet name.**

State	Cost Element #	Recurring Expense Description (Limited to 25 characters)	Recurring Volume Sensitive $ Amount	Recurring Volume Insensitive $ Amount
TN				
	END			

Maximum 10 entries per Cost Element #

001327

CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA

Instructions:

1. **Use this worksheet to record nonrecurring non-labor expenses to be input into the Calculator calculations.**
2. **All amounts shown are per unit (e.g., per call, per loop, per MOU).**
3. **Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.**
4. **All data on this form should be cell-referenced to study workpapers.**
5. **Do NOT change columns, headings, sheet name.**
6. **Use column D when cost element has a single nonrecurring cost; use columns E & F for elements with a first and additional nonrecurring cost; use columns G & H for elements with an initial and subsequent nonrecurring cost.**

State	Cost Element #	Nonrecurring Expense Description (Limited to 25 characters)	Nonrecurring $ Amount	Nonrecurring First $ Amount	Nonrecurring Additional $ Amount	Nonrecurring Initial $ Amount	Nonrecurring Subsequent $ Amount
TN							
	END						

Maximum 10 entries per Cost Element #

001378

CALCULATOR INPUT FORM - RECURRING LABOR EXPENSES DATA

Instructions:

1. Use this worksheet to record recurring expensed labor times to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.

State	Cost Element #	Labor Expense Description (Limited to 25 characters)	JFC/ Payband	Work Time (Hours) Volume Sensitive	Work Time (Hours) Volume Insensitive
TN					
	END				

Maximum 20 entries per Cost Element #

001379

CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES

Instructions:

1. Use this worksheet to record nonrecurring labor times to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.
6. Use columns F & G when cost element has a single nonrecurring cost; use columns H, I, J, & K for elements with a first and additional nonrecurring cost; use columns L, M, N & O for elements with an initial and subsequent nonrecurring cost.
7. Input Cost Element Life (in months) on first row of data for each cost element. It is not necessary to repeat on each line.

Study Mid-Point Date (Mos.): 6/1/2001

State	Cost Element #	Cost Element Life (Mo)	Labor Expense Description (Limited to 25 characters)	JFC/ Payband	(For use w/ one NR) Installation Time (Hours)	(For use w/ one NR) Disconnect Time Hours	First Installation Time (Hours)	First Disconnect Time Hours	Additional Installation Time (Hours)	Additional Disconnect Time Hours	Initial Installation Time (Hours)	Initial Disconnect Time Hours	Subsequent Installation Time (Hours)	Subsequent Disconnect Time Hours
TN	A.16.15	52	Service Inquiry	SDWC			2.0000	0.0000	0.0000	0.0000				
TN	A.16.15	52	Service Inquiry	34XX			2.2500	0.0000	0.0000	0.0000				
TN	A.16.15	52	Service Order	4AXX			0.0600	0.0000	0.0600	0.0000				
TN	A.16.15	52	Service Order	4N4X			0.1118	0.0000	0.0000	0.0000				
TN	A.16.15	52	Service Order	4WXX			0.2500	0.0000	0.0500	0.0000				
TN	A.16.15	52	Service Order	430X			0.1333	0.0000	0.0833	0.0000				
TN	A.16.15	52	Engineering	32XX			2.0833	0.0000	2.0833	0.0000				
TN	A.16.15	52	Engineering	3A2X			0.0333	0.0000	0.0000	0.0000				
TN	A.16.15	52	Engineering	4N4X			1.6640	0.0000	1.6640	0.0000				
TN	A.16.15	52	Connect	431X			1.4920	0.0000	1.4920	0.0000				
TN	A.16.15	52	Connect	4AXX			0.9500	0.0000	0.9500	0.0000				
TN	A.16.15	52	Service Order	411X			0.2500	0.0000	0.1667	0.0000				
TN	A.16.15	52	Connect	411X			1.8400	0.0000	0.9200	0.0000				
TN	A.16.15	52	Travel	411X			0.3000	0.0000	0.0000	0.0000				
TN	A.16.15	52	Service Order	230X			0.0175	0.0000	0.0175	0.0000				
TN	A.16.17	52	Service Order	230X			1.1783	0.0000	1.1783	0.0000				
TN	A.16.1599	52	Service Order	4AXX			0.0000	0.1800	0.0000	0.1800				
TN	A.16.1599	52	Service Order	4N4X			0.0000	0.0412	0.0000	0.0000				
TN	A.16.1599	52	Service Order	430X			0.0000	0.1166	0.0000	0.1166				
TN	A.16.1599	52	Engineering	3A2X			0.0000	0.0333	0.0000	0.0000				
TN	A.16.1599	52	Engineering	4N4X			0.0000	0.2626	0.0000	0.2626				
TN	A.16.1599	52	Connect	431X			0.0000	1.5966	0.0000	1.5966				
TN	A.16.1599	52	Service Order	411X			0.0000	0.1667	0.0000	0.0833				
TN	A.16.1599	52	Connect	411X			0.0000	1.5000	0.0000	0.7500				
TN	A.16.1599	52	Travel	411X			0.0000	0.3000	0.0000	0.0000				
TN	A.16.1599	52	Service Order	230X			0.0000	0.0175	0.0000	0.0175				
TN	A.16.1799	52	Service Order	230X			0.0000	0.5100	0.0000	0.5100				
TN	A.16.1598	52	Test	431X			2.2380	0.0000	2.2380	0.0000				
TN	A.16.1598	52	Test	4AXX			0.9500	0.0000	0.9500	0.0000				
TN	A.16.1598	52	Test	411X			2.7600	0.0000	1.3800	0.0000				
	END													

	A	B	C	D	E	F	G	H
1	Tennessee							
2	NONRECURRING WORKTIMES							
3	Study Period: 2000-2002							
4								
5	Element #: A.16.15 & A.16.16				First	First	Additional	Additional
6	Item/Description				Install	Disconnect	Install	Disconnect
7	Work Group	Description	JFC / JG / WS	Source	Time Hrs	Time Hrs	Time Hrs	Time Hrs
8								
9	COMPLEX RESALE SUPPORT GROUP (CRSG)	Service Inquiry	SDWC	NETWORK	2.0000	0.0000	0.0000	0.0000
10	NETWORK & ENGINEERING PLANNING (FG20)	Service Inquiry	34XX	NETWORK	2.2500	0.0000	0.0000	0.0000
11								
12	ACCESS CUSTOMER ADVOCATE CENTER (UNEC)	Service Order	4AXX	NETWORK	0.0600	0.1800	0.0600	0.1800
13	CIRCUIT PROVISIONING GROUP (CPG)	Service Order	4N4X	NETWORK	0.1118	0.0412	0.0000	0.0000
14	WORK MANAGEMENT CENTER	Service Order	4WXX	NETWORK	0.2500	0.0000	0.0500	0.0000
15	CO INSTALL & MTCE-SWITCH EQUIP	Service Order	430X	NETWORK	0.1333	0.1166	0.0833	0.1166
16								
17	OUTSIDE PLANT ENGINEERING (FG30)	Engineering	32XX	NETWORK	2.0833	0.0000	2.0833	0.0000
18	NETWORK PLANNING & ENGINEERING (PICS)	Engineering	3A2X	NETWORK	0.0333	0.0333	0.0000	0.0000
19	CIRCUIT PROVISIONING CENTER (CPG)	Engineering	4N4X	NETWORK	1.6640	0.2626	1.6640	0.2626
20								
21	CO INSTALL & MTCE CKT & FAC (INTEL)	Connect	431X	NETWORK	1.4920	1.5966	1.4920	1.5966
22	ACCESS CUSTOMER ADVOCATE CENTER (UNEC)	Connect	4AXX	NETWORK	0.9500	0.0000	0.9500	0.0000
23								
24	INSTALL & MTCE-SPEC SVCS (SSIM)	Service Order	411X	NETWORK	0.2500	0.1667	0.1667	0.0833
25	INSTALL & MTCE-SPEC SVCS (SSIM)	Connect	411X	NETWORK	1.8400	1.5000	0.9200	0.7500
26	INSTALL & MTCE-SPEC SVCS (SSIM)	Travel	411X	NETWORK	0.3000	0.3000	0.0000	0.0000
27								
28	CUSTOMER POINT OF CONTACT (LCSC) TOTAL TIME	Service Order	230X	NETWORK	1.1958	0.5275	1.1958	0.5275
29	WORK TIME ELECTRONIC INTERFACE	Service Order	230X	NETWORK	0.0175	0.0175	0.0175	0.0175
30	MANUAL ADDITIVE	Service Order	230X		1.1783	0.5100	1.1783	0.5100
31								
32	CO INSTALL & MTCE CKT & FAC (INTEL)	Test	431X	NETWORK	2.2380	0.0000	2.2380	0.0000
33	ACCESS CUSTOMER ADVOCATE CENTER (UNEC)	Test	4AXX	NETWORK	0.9500	0.0000	0.9500	0.0000
34								
35								
36	INSTALL & MTCE-SPEC SVCS (SSIM)	Test	411X	NETWORK	2.7600	0.0000	1.3800	0.0000
37								
38	COST ELEMENT LIFE IN MONTHS		52					

001381

	A	B	C	D	E
1	Tennessee				
2	RECURRING INPUTS				
3	Study Period: 2000-2002				
4					
5	Element #: A.16.15 & A.16.16				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	Battery Back-up - OC- 3 (CP)	257C	19	SONET Price Calculator	$ 867.4797
9	Battery Back-up - OC- 3 (CP)	257C	22	SONET Price Calculator	$ 653.6585
10	Battery Back-up - OC-12 (CP)	257C	19	SONET Price Calculator	$ 216.8699
11	Battery Back-up - OC-12 (CP)	257C	22	SONET Price Calculator	$ 163.4146
12	Battery Back-up - OC-48 (CP)	257C	19	SONET Price Calculator	$ 54.2175
13	Battery Back-up - OC-48 (CP)	257C	22	SONET Price Calculator	$ 40.8537
14	C.O. Interface STS-1 on OC- 3	257C	03	SONET Price Calculator	$ 200.9765
15	C.O. Interface STS-1 on OC- 3	257C	09	SONET Price Calculator	$ 2,269.7761
16	C.O. Interface STS-1 on OC-12	257C	03	SONET Price Calculator	$ 200.9765
17	C.O. Interface STS-1 on OC-12	257C	09	SONET Price Calculator	$ 1,636.1194
18	C.O. Interface STS-1 on OC-48 - Mux & Protect	257C	06	SONET Price Calculator	$ 199.8636
19	C.O. Interface STS-1 on OC-48 - Working	257C	03	SONET Price Calculator	$ 200.9765
20	C.O. Interface STS-1 on OC-48 - Working	257C	09	SONET Price Calculator	$ 877.1000
21	C.O. Node - OC- 3	257C	03	SONET Price Calculator	$ 352.0325
22	C.O. Node - OC- 3	257C	06	SONET Price Calculator	$ 3,420.7317
23	C.O. Node - OC-12	257C	03	SONET Price Calculator	$ 156.2805
24	C.O. Node - OC-12	257C	06	SONET Price Calculator	$ 1,939.6037
25	C.O. Node - OC-48 Term	257C	03	SONET Price Calculator	$ 426.7429
26	C.O. Node - OC-48 Term	257C	06	SONET Price Calculator	$ 709.7993
27	C.P. Interface STS-1 on OC- 3	257C	19	SONET Price Calculator	$ 200.9765
28	C.P. Interface STS-1 on OC- 3	257C	25	SONET Price Calculator	$ 2,269.7761
29	C.P. Interface STS-1 on OC-12	257C	19	SONET Price Calculator	$ 200.9765
30	C.P. Interface STS-1 on OC-12	257C	25	SONET Price Calculator	$ 1,608.2332
31	C.P. Interface STS-1 on OC-48 - Mux & Protect	257C	22	SONET Price Calculator	$ 199.8636
32	C.P. Interface STS-1 on OC-48 - Working	257C	19	SONET Price Calculator	$ 200.9765
33	C.P. Interface STS-1 on OC-48 - Working	257C	25	SONET Price Calculator	$ 877.1000
34	C.P. Node - OC- 3	257C	19	SONET Price Calculator	$ 352.0325
35	C.P. Node - OC- 3	257C	22	SONET Price Calculator	$ 3,420.7317
36	C.P. Node - OC-12	257C	19	SONET Price Calculator	$ 156.2805
37	C.P. Node - OC-12	257C	22	SONET Price Calculator	$ 1,939.6037
38	C.P. Node - OC-48 Term	257C	19	SONET Price Calculator	$ 426.7429
39	C.P. Node - OC-48 Term	257C	22	SONET Price Calculator	$ 709.7993
40	Data Communications - OC- 3	257C	15	SONET Price Calculator	$ 358.1301
41	Data Communications - OC-12	257C	15	SONET Price Calculator	$ 89.5325
42	Data Communications - OC-48	257C	15	SONET Price Calculator	$ 22.3831
43	Fiber Building Entrance Cable (LC) - OC- 3	812C	00	SONET Price Calculator	$ 270.7592
44	Fiber Building Entrance Cable (LC) - OC-12	812C	00	SONET Price Calculator	$ 67.6898
45	Fiber Building Entrance Cable (LC) - OC-48	812C	00	SONET Price Calculator	$ 16.9224
46	Aerial Fiber - Per Wgtd Fiber Mile - OC- 3 (LC)	822C	00	SONET Price Calculator	$ 28.9054
47	Aerial Fiber - Per Wgtd Fiber Mile - OC-12 (LC)	822C	00	SONET Price Calculator	$ 7.2263
48	Aerial Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	822C	00	SONET Price Calculator	$ 1.8066
49	Buried Fiber - Per Wgtd Fiber Mile - OC- 3 (LC)	845C	00	SONET Price Calculator	$ 7.9276
50	Buried Fiber - Per Wgtd Fiber Mile - OC-12 (LC)	845C	00	SONET Price Calculator	$ 1.9819
51	Buried Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	845C	00	SONET Price Calculator	$ 0.4955
52	UG Fiber - Per Wgtd Fiber Mile - OC- 3 (LC)	85C	00	SONET Price Calculator	$ 24.1488
53	UG Fiber - Per Wgtd Fiber Mile - OC-12 (LC)	85C	00	SONET Price Calculator	$ 6.0372
54	UG Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	85C	00	SONET Price Calculator	$ 1.5093
55					
56					
57	Route to Air Ratio (RTA)			Network	1.34
58					
59	Number of Strands per Ring				3
60	Probability of Occurrence OC-3			Network	75%
61	Probability of Occurrence OC-12			Network	20%
62	Probability of Occurrence OC-48			Network	5%

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	A	B	C	D	E	F	G
1	Tennessee						
2	SUMMARY						
3	Study Period: 2000-2002						
4							
5	Element #: A.16.15 & A.16.16						
6	**ELECTRONIC MATERIAL**						
7							
8			0C-3	0C-12	0C-48		
9	FRC	SubFRC	WP311	WP321	WP331	TOTAL	SOURCE
10	257C	03	$ 414.7567	$ 71.4514	$ 31.3860	$ 517.5941	Line 54
11	257C	06	$2,565.5488	$387.9207	$ 45.4831	$2,998.9527	Line 55
12	257C	09	$1,702.3321	$327.2239	$ 43.8550	$2,073.4110	Line 56
13	257C	15	$ 268.5976	$ 17.9065	$ 1.1192	$ 287.6232	Line 57
14	257C	19	$1,065.3665	$114.8254	$ 34.0968	$1,214.2887	Line 58
15	257C	22	$3,055.7927	$420.6037	$ 47.5258	$3,523.9222	Line 59
16	257C	25	$1,702.3321	$321.6466	$ 43.8550	$2,067.8337	Line 60
17	812C	00	$ 203.0694	$ 13.5380	$ 0.8461	$ 217.4535	Line 61
18							
19							
20	**TRANSPORT MATERIAL**						
21							
22			0C-3	0C-12	0C-48		
23	FRC	SubFRC	WP312	WP322	WP332	TOTAL	SOURCE
24	822C	00	$ 87.1497	$ 5.8100	$ 0.3631	$ 93.3228	Line 23
25	845C	00	$ 23.9018	$ 1.5935	$ 0.0996	$ 25.5949	Line 24
26	85C	00	$ 72.8086	$ 4.8539	$ 0.3034	$ 77.9659	Line 25

001383

	A	B	C	D	E
1	Tennessee				
2	OC-3 ELECTRONICS				
3	Study Period: 2000-2002				
4					
5	Element #: A.16.15 & A.16.16				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**CENTRAL OFFICE**				
9					
10	C.O. Interface STS-1 on OC- 3	257C	03	Input Sheet Line 14	$ 200.9765
11	C.O. Interface STS-1 on OC- 3	257C	09	Input Sheet Line 15	$ 2,269.7761
12					
13	C.O. Node - OC- 3	257C	03	Input Sheet Line 21	$ 352.0325
14	C.O. Node - OC- 3	257C	06	Input Sheet Line 22	$ 3,420.7317
15					
16	Data Communications - OC- 3	257C	15	Input Sheet Line 40	$ 358.1301
17					
18	TOTAL			Sum Lines 10 Thru 16	$ 6,601.6469
19					
20	**POINT OF TERMINATION (CP)**				
21					
22	C.P. Interface STS-1 on OC- 3	257C	19	Input Sheet Line 27	$ 200.9765
23	C.P. Interface STS-1 on OC- 3	257C	25	Input Sheet Line 28	$ 2,269.7761
24					
25	C.P. Node - OC- 3	257C	19	Input Sheet Line 34	$ 352.0325
26	C.P. Node - OC- 3	257C	22	Input Sheet Line 35	$ 3,420.7317
27					
28	Battery Back-up - OC- 3 (CP)	257C	19	Input Sheet Line 8	$ 867.4797
29	Battery Back-up - OC- 3 (CP)	257C	22	Input Sheet Line 9	$ 653.6585
30					
31	Fiber Building Entrance Cable (LC) - OC- 3	812C	00	Input Sheet Line 43	$ 270.7592
32					
33	TOTAL			Sum Lines 22 Thru 31	$ 8,035.4142
34					
35					
36	**SUMMARY BY FRC**				
37					
38	Digtl Circ C.O. - Hardwired	257C	03	Sum Lines 10, 13	$ 553.0090
39	Digtl Circ C.O. - Com. Plug-in	257C	06	Line 14	$ 3,420.7317
40	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 11	$ 2,269.7761
41	Digtl Circ C.O. - Combined	257C	15	Line 16	$ 358.1301
42	Digtl Circ Prem - Hardwired	257C	19	Sum Lines 22, 25, 28	$ 1,420.4887
43	Digtl Circ Prem - Com. Plug-in	257C	22	Sum Lines 26. 29	$ 4,074.3902
44	Digtl Circ Prem - Def. Plug-in	257C	25	Line 23	$ 2,269.7761
45	Fiber Bldg. Entrance Cable	812C	00	Line 31	$ 270.7592
46	TOTAL STS-1 LOCAL LOOP			Sum Lines 38 Thru 45	$ 14,637.0611
47					
48					
49	Probability of Occurrence OC-3			Input Sheet Line 60	75%
50					
51					
52	**SUMMARY BY FRC - WEIGHTED**				
53					
54	Digtl Circ C.O. - Hardwired	257C	03	Line 49 * Line 38	$ 414.7567
55	Digtl Circ C.O. - Com. Plug-in	257C	06	Line 49 * Line 39	$ 2,565.5488
56	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 49 * Line 40	$ 1,702.3321
57	Digtl Circ C.O. - Combined	257C	15	Line 49 * Line 41	$ 268.5976
58	Digtl Circ Prem - Hardwired	257C	19	Line 49 * Line 42	$ 1,065.3665
59	Digtl Circ Prem - Com. Plug-in	257C	22	Line 49 * Line 43	$ 3,055.7927
60	Digtl Circ Prem - Def. Plug-in	257C	25	Line 49 * Line 44	$ 1,702.3321
61	Fiber Bldg. Entrance Cable	812C	00	Line 49 * Line 45	$ 203.0694
62	TOTAL STS-1 LOCAL LOOP (WEIGHTED)			Sum Lines 54 Thru 61	$ 10,977.7958

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	A	B	C	D	E
1	Tennessee				
2	OC-3 TRANSPORT				
3	Study Period: 2000-2002				
4					
5	Element #: A.16.15 & A.16.16				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**MATERIAL PER MILE PER STRAND (ROUTE)**				
9					
10	Aerial Fiber - Per Wgtd Fiber Mile - OC- 3 (LC)	822C	00	Input Sheet Line 46	$ 28.9054
11	Buried Fiber - Per Wgtd Fiber Mile - OC- 3 (LC)	845C	00	Input Sheet Line 49	$ 7.9276
12	UG Fiber - Per Wgtd Fiber Mile - OC- 3 (LC)	85C	00	Input Sheet Line 52	$ 24.1488
13					
14	Number of Strands per Ring			Input Sheet Line 59	3
15					
16	Probability of Occurrence OC-3			Input Sheet Line 60	75%
17					
18	Route to Air Ratio (RTA)			Input Sheet Line 57	1.34
19					
20					
21	**WEIGHTED MATERIAL PER MILE PER STRAND (AIR)**				
22					
23	Aerial Fiber - Per Wgtd Fiber Mile - OC- 3 (LC)	822C	00	Line 10 * Line 14 * Line 16 * Line 18	$ 87.1497
24	Buried Fiber - Per Wgtd Fiber Mile - OC- 3 (LC)	845C	00	Line 11 * Line 14 * Line 16 * Line 18	$ 23.9018
25	UG Fiber - Per Wgtd Fiber Mile - OC- 3 (LC)	85C	00	Line 12 * Line 14 * Line 16 * Line 18	$ 72.8086

	A	B	C	D	E
1	Tennessee				
2	OC-12 ELECTRONICS				
3	Study Period: 2000-2002				
4					
5	Element #: A.16.15 & A.16.16				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**CENTRAL OFFICE**				
9					
10	C.O. Interface STS-1 on OC-12	257C	03	Input Sheet Line 16	$ 200.9765
11	C.O. Interface STS-1 on OC-12	257C	09	Input Sheet Line 17	$ 1,636.1194
12					
13	C.O. Node - OC-12	257C	03	Input Sheet Line 23	$ 156.2805
14	C.O. Node - OC-12	257C	06	Input Sheet Line 24	$ 1,939.6037
15					
16	Data Communications - OC-12	257C	15	Input Sheet Line 41	$ 89.5325
17					
18	TOTAL			Sum Lines 10 Thru 16	$ 4,022.5125
19					
20	**POINT OF TERMINATION (CP)**				
21					
22	C.P. Interface STS-1 on OC-12	257C	19	Input Sheet Line 29	$ 200.9765
23	C.P. Interface STS-1 on OC-12	257C	25	Input Sheet Line 30	$ 1,608.2332
24					
25	C.P. Node - OC-12	257C	19	Input Sheet Line 36	$ 156.2805
26	C.P. Node - OC-12	257C	22	Input Sheet Line 37	$ 1,939.6037
27					
28	Battery Back-up - OC-12 (CP)	257C	19	Input Sheet Line 10	$ 216.8699
29	Battery Back-up - OC-12 (CP)	257C	22	Input Sheet Line 11	$ 163.4146
30					
31	Fiber Building Entrance Cable (LC) - OC-12	812C	00	Input Sheet Line 44	$ 67.6898
32					
33	TOTAL			Sum Lines 22 Thru 31	$ 4,353.0682
34					
35					
36	**SUMMARY BY FRC**				
37					
38	Digtl Circ C.O. - Hardwired	257C	03	Sum Lines 10, 13	$ 357.2570
39	Digtl Circ C.O. - Com. Plug-in	257C	06	Line 14	$ 1,939.6037
40	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 11	$ 1,636.1194
41	Digtl Circ C.O. - Combined	257C	15	Line 16	$ 89.5325
42	Digtl Circ Prem - Hardwired	257C	19	Sum Lines 22, 25, 28	$ 574.1269
43	Digtl Circ Prem - Com. Plug-in	257C	22	Sum Lines 26, 29	$ 2,103.0183
44	Digtl Circ Prem - Def. Plug-in	257C	25	Line 23	$ 1,608.2332
45	Fiber Bldg. Entrance Cable	812C	00	Line 31	$ 67.6898
46	TOTAL STS-1 LOCAL LOOP			Sum Lines 38 Thru 45	$ 8,375.5807
47					
48					
49	Probability of Occurrence OC-12			Input Sheet Line 61	20%
50					
51					
52	**SUMMARY BY FRC - WEIGHTED**				
53					
54	Digtl Circ C.O. - Hardwired	257C	03	Line 49 * Line 38	$ 71.4514
55	Digtl Circ C.O. - Com. Plug-in	257C	06	Line 49 * Line 39	$ 387.9207
56	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 49 * Line 40	$ 327.2239
57	Digtl Circ C.O. - Combined	257C	15	Line 49 * Line 41	$ 17.9065
58	Digtl Circ Prem - Hardwired	257C	19	Line 49 * Line 42	$ 114.8254
59	Digtl Circ Prem - Com. Plug-in	257C	22	Line 49 * Line 43	$ 420.6037
60	Digtl Circ Prem - Def. Plug-in	257C	25	Line 49 * Line 44	$ 321.6466
61	Fiber Bldg. Entrance Cable	812C	00	Line 49 * Line 45	$ 13.5380
62	TOTAL STS-1 LOCAL LOOP (WEIGHTED)			Sum Lines 54 Thru 61	$ 1,675.1161

	A	B	C	D	E
1	Tennessee				
2	OC-12 TRANSPORT				
3	Study Period: 2000-2002				
4					
5	Element #: A.16.15 & A.16.16				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**MATERIAL PER MILE PER STRAND (ROUTE)**				
9					
10	Aerial Fiber - Per Wgtd Fiber Mile - OC-12 (LC)	822C	00	Input Sheet Line 47	$ 7.2263
11	Buried Fiber - Per Wgtd Fiber Mile - OC-12 (LC)	845C	00	Input Sheet Line 50	$ 1.9819
12	UG Fiber - Per Wgtd Fiber Mile - OC-12 (LC)	85C	00	Input Sheet Line 53	$ 6.0372
13					
14	Number of Strands per Ring			Input Sheet Line 59	3
15					
16	Probability of Occurrence OC-12			Input Sheet Line 61	20%
17					
18	Route to Air Ratio (RTA)			Input Sheet Line 57	1.34
19					
20					
21	**WEIGHTED MATERIAL PER MILE PER STRAND (AIR)**				
22					
23	Aerial Fiber - Per Wgtd Fiber Mile - OC-12 (LC)	822C	00	Line 10 * Line 14 * Line 16 * Line 18	$ 5.8100
24	Buried Fiber - Per Wgtd Fiber Mile - OC-12 (LC)	845C	00	Line 11 * Line 14 * Line 16 * Line 18	$ 1.5935
25	UG Fiber - Per Wgtd Fiber Mile - OC-12 (LC)	85C	00	Line 12 * Line 14 * Line 16 * Line 18	$ 4.8539

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	A	B	C	D	E
1	Tennessee				
2	OC-48 ELECTRONICS				
3	Study Period: 2000-2002				
4					
5	Element #: A.16.15 & A.16.16				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**CENTRAL OFFICE**				
9					
10	C.O. Interface STS-1 on OC-48 - Mux & Protect	257C	06	Input Sheet Line 18	$ 199.8636
11	C.O. Interface STS-1 on OC-48 - Working	257C	03	Input Sheet Line 19	$ 200.9765
12	C.O. Interface STS-1 on OC-48 - Working	257C	09	Input Sheet Line 20	$ 877.1000
13					
14	C.O. Node - OC-48 Term	257C	03	Input Sheet Line 25	$ 426.7429
15	C.O. Node - OC-48 Term	257C	06	Input Sheet Line 26	$ 709.7993
16					
17	Data Communications - OC-48	257C	15	Input Sheet Line 42	$ 22.3831
18					
19	TOTAL			Sum Lines 10 Thru 17	$ 2,436.8654
20					
21	**POINT OF TERMINATION (CP)**				
22					
23	C.P. Interface STS-1 on OC-48 - Mux & Protect	257C	22	Input Sheet Line 31	$ 199.8636
24	C.P. Interface STS-1 on OC-48 - Working	257C	19	Input Sheet Line 32	$ 200.9765
25	C.P. Interface STS-1 on OC-48 - Working	257C	25	Input Sheet Line 33	$ 877.1000
26					
27	C.P. Node - OC-48 Term	257C	19	Input Sheet Line 38	$ 426.7429
28	C.P. Node - OC-48 Term	257C	22	Input Sheet Line 39	$ 709.7993
29					
30	Battery Back-up - OC-48 (CP)	257C	19	Input Sheet Line 12	$ 54.2175
31	Battery Back-up - OC-48 (CP)	257C	22	Input Sheet Line 13	$ 40.8537
32					
33	Fiber Building Entrance Cable (LC) - OC-48	812C	00	Input Sheet Line 45	$ 16.9224
34					
35	TOTAL			Sum Lines 23 Thru 33	$ 2,526.4759
36					
37					
38	**SUMMARY BY FRC**				
39					
40	Digtl Circ C.O. - Hardwired	257C	03	Sum Lines 11, 14	$ 627.7194
41	Digtl Circ C.O. - Com. Plug-in	257C	06	Sum Lines 10, 15	$ 909.6629
42	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 12	$ 877.1000
43	Digtl Circ C.O. - Combined	257C	15	Line 17	$ 22.3831
44	Digtl Circ Prem - Hardwired	257C	19	Sum Lines 24, 27, 30	$ 681.9368
45	Digtl Circ Prem - Com. Plug-in	257C	22	Sum Lines 23, 28, 31	$ 950.5166
46	Digtl Circ Prem - Def. Plug-in	257C	25	Line 25	$ 877.1000
47	Fiber Bldg. Entrance Cable	812C	00	Line 33	$ 16.9224
48	TOTAL STS-1 LOCAL LOOP			Sum Lines 40 Thru 47	$ 4,963.3413
49					
50	Probability of Occurrence OC-48			Input Sheet Line 62	5%
51					
52	**SUMMARY BY FRC - WEIGHTED**				
53					
54	Digtl Circ C.O. - Hardwired	257C	03	Line 50 * Line 40	$ 31.3860
55	Digtl Circ C.O. - Com. Plug-in	257C	06	Line 50 * Line 41	$ 45.4831
56	Digtl Circ C.O. - Def. Plug-in	257C	09	Line 50 * Line 42	$ 43.8550
57	Digtl Circ C.O. - Combined	257C	15	Line 50 * Line 43	$ 1.1192
58	Digtl Circ Prem - Hardwired	257C	19	Line 50 * Line 44	$ 34.0968
59	Digtl Circ Prem - Com. Plug-in	257C	22	Line 50 * Line 45	$ 47.5258
60	Digtl Circ Prem - Def. Plug-in	257C	25	Line 50 * Line 46	$ 43.8550
61	Fiber Bldg. Entrance Cable	812C	00	Line 50 * Line 47	$ 0.8461
62	TOTAL STS-1 LOCAL LOOP (WEIGHTED)			Sum Lines 54 Thru 61	$ 248.1671

	A	B	C	D	E
1	Tennessee				
2	OC-48 TRANSPORT				
3	Study Period: 2000-2002				
4					
5	Element #: A.16.15 & A.16.16				
6	Item/Description				
7	Description	FRC	SubFRC	Source	Amount
8	**MATERIAL PER MILE PER STRAND (ROUTE)**				
9					
10	Aerial Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	822C	00	Input Sheet Line 48	$ 1.8066
11	Buried Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	845C	00	Input Sheet Line 51	$ 0.4955
12	UG Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	85C	00	Input Sheet Line 54	$ 1.5093
13					
14	Number of Strands per Ring			Input Sheet Line 59	3
15					
16	Probability of Occurrence OC-48			Input Sheet Line 62	5%
17					
18	Route to Air Ratio (RTA)			Input Sheet Line 57	1.34
19					
20					
21	**WEIGHTED MATERIAL PER MILE PER STRAND (AIR)**				
22					
23	Aerial Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	822C	00	Line 10 * Line 14 * Line 16 * Line 18	$ 0.3631
24	Buried Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	845C	00	Line 11 * Line 14 * Line 16 * Line 18	$ 0.0996
25	UG Fiber - Per Wgtd Fiber Mile - OC-48 (LC)	85C	00	Line 12 * Line 14 * Line 16 * Line 18	$ 0.3034

Tennessee
Index Sheet
Study Period: 2000-2002

Sheet Name:	Description:
Index	Unbundled Loop Modification
Nonrecurring Labor	CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES
WP100	Nonrecurring Worktimes
WP200	Nonrecurring Worktimes
INPUTS_SERVICE INQUIRY	Detailed Labor Worktimes
INPUTS_ENGINEERING	Detailed Labor Worktimes
INPUTS_CONNECT&TEST	Detailed Labor Worktimes
INPUTS_TRAVEL	Detailed Labor Worktimes
Input_Loop+Mod	Adjustment for Loop Modification Worktimes - ULM - Short
Input_ULM LC BT	Adjustment for BT/LC Inquiries in same SI
Input_Demand	Conditioning/xDSL Loop Demand

	A	B	C	D	E	F	G	H	I	J
1		**CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA**								
2										
3		**Instructions:**								
4		**1. Use this worksheet to record material and/or investments to be input into the**								
5		**Calculator calculations.**								
6		**2. All amounts shown are per unit (e.g., per call, per loop, per MOU).**								
7		**3. Input data, by Cost Element, leaving no blank lines. On next row**								
8		**after last line of data, type END in Cost Element Column.**								
9		**4. All data on this form should be cell-referenced to study workpapers.**								
10		**5. Do NOT change columns, headings, sheet name.**								
11										
12						**Volume**	**Volume**			
13		**Cost**		**Sub**		**Sensitive**	**Insensitive**			
14	**State**	**Element #**	**FRC**	**FRC**		**$ Amount**	**$ Amount**			
15	TN									
16		END								
17										
18										
19										
20										
21										
22										
23										
24										
25										

	A	B	C	D	E	F	G	H
1		**CALCULATOR INPUT FORM - RECURRING EXPENSES DATA**						
2								
3		**Instructions:**						
4		**1. Use this worksheet to record recurring non-labor expenses to be input into the**						
5		**Calculator calculations.**						
6		**2. All amounts shown are per unit (e.g., per call, per loop, per MOU).**						
7		**3. Input data, by Cost Element, leaving no blank lines. On next row**						
8		**after last line of data, type END in Cost Element Column.**						
9		**4. All data on this form should be cell-referenced to study workpapers.**						
10		**5. Do NOT change columns, headings, sheet name.**						
11								
12								
13								
14				**Recurring**	**Recurring**			
15			**Recurring**	**Volume**	**Volume**			
16		**Cost**	**Expense Description**	**Sensitive**	**Insensitive**			
17	**State**	**Element #**	**(Limited to 25 characters)**	**$ Amount**	**$ Amount**			
18	TN							
19		END						
20								
21								
22								
23								
24								
25								
26								
27								
28								
29			Maximum 10 entries per Cost Element #					
30								

001392

CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA

Instructions:

1. **Use this worksheet to record nonrecurring non-labor expenses to be input into the Calculator calculations.**
2. **All amounts shown are per unit (e.g., per call, per loop, per MOU).**
3. **Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.**
4. **All data on this form should be cell-referenced to study workpapers.**
5. **Do NOT change columns, headings, sheet name.**
6. **Use column D when cost element has a single nonrecurring cost; use columns E & F for elements with a first and additional nonrecurring cost; use columns G & H for elements with an initial and subsequent nonrecurring cost.**

State	Cost Element #	Nonrecurring Expense Description (Limited to 25 characters)	Nonrecurring $ Amount	Nonrecurring First $ Amount	Nonrecurring Additional $ Amount	Nonrecurring Initial $ Amount	Nonrecurring Subsequent $ Amount
TN							
	END						

Maximum 10 entries per Cost Element #

	A	B	C	D	E	F	G	H
1		**CALCULATOR INPUT FORM - RECURRING LABOR EXPENSES DATA**						
2								
3		**Instructions:**						
4		**1. Use this worksheet to record recurring expensed labor times to be input into the**						
5		**Calculator calculations.**						
6		**2. All amounts shown are per unit (e.g., per call, per loop, per MOU).**						
7		**3. Input data, by Cost Element, leaving no blank lines. On next row**						
8		**after last line of data, type END in Cost Element Column.**						
9		**4. All data on this form should be cell-referenced to study workpapers.**						
10		**5. Do NOT change columns, headings, sheet name.**						
11								
12								
13						**Work Time (Hours)**		
14		**Cost**	**Labor Expense Description**	**JFC/**	**Volume**	**Volume**		
15	**State**	**Element #**	**(Limited to 25 characters)**	**Payband**	**Sensitive**	**Insensitive**		
16	TN							
17		END						
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37		Maximum 20 entries per Cost Element #						
38								

001394

CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES

Instructions:

1. Use this worksheet to record nonrecurring labor times to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.
6. Use columns F & G when cost element has a single nonrecurring cost; use columns H, I, J, & K for elements with a first and additional nonrecurring cost; use columns L, M, N & O for elements with an initial and subsequent nonrecurring cost.
7. Input Cost Element Life (in months) on first row of data for each cost element. It is not necessary to repeat on each line.

Study Mid-Point Date (Mos.): 6/1/2001

State	Cost Element #	Cost Element Life (Mo)	Labor Expense Description (Limited to 25 characters)	JFC/ Payband	(For use w/ one NR) Installation Time (Hours)	(For use w/ one NR) Disconnect Time Hours	First Installation Time (Hours)	First Disconnect Time Hours	Additional Installation Time (Hours)	Additional Disconnect Time Hours	Initial Installation Time (Hours)	Initial Disconnect Time Hours	Subsequent Installation Time (Hours)	Subsequent Disconnect Time Hours
TN	A.17.1		SERVICE INQUIRY	SDWC	0.0089									
TN	A.17.1		SERVICE INQUIRY	230X	0.0125									
TN	A.17.1		ENGINEERING	JG57	0.3750									
TN	A.17.1		ENGINEERING	4FXX	0.0278									
TN	A.17.1		ENGINEERING	4M1X	0.0835									
TN	A.17.1		CONNECT & TEST	420X	0.9240									
TN	A.17.1		TRAVEL	420X	0.0500									
TN	A.17.2		SERVICE INQUIRY	SDWC			-		-					
TN	A.17.2		SERVICE INQUIRY	230X			-		-					
TN	A.17.2		ENGINEERING	JG57			3.7500		-					
TN	A.17.2		ENGINEERING	4FXX			0.2783		-					
TN	A.17.2		ENGINEERING	4M1X			0.8350		-					
TN	A.17.2		CONNECT & TEST	420X			10.6750		0.5250					
TN	A.17.2		TRAVEL	420X			0.5000		-					
TN	A.17.3		SERVICE INQUIRY	SDWC	0.0089									
TN	A.17.3		SERVICE INQUIRY	230X	0.0125									
TN	A.17.3		ENGINEERING	JG57	0.3750									
TN	A.17.3		ENGINEERING	4FXX	0.0278									
TN	A.17.3		ENGINEERING	4M1X	0.0835									
TN	A.17.3		CONNECT & TEST	420X	0.9250									
TN	A.17.3		TRAVEL	420X	0.0500									
TN	A.17.4		SERVICE INQUIRY	SDWC			0.0076		0.0076					
TN	A.17.4		SERVICE INQUIRY	230X			0.0107		0.0107					
TN	A.17.4		ENGINEERING	JG57			0.3193		0.3193					
TN	A.17.4		ENGINEERING	4FXX			0.0237		0.0237					
TN	A.17.4		ENGINEERING	4M1X			0.0711		0.0711					
TN	A.17.4		CONNECT & TEST	420X			0.7867		0.7867					
TN	A.17.4		TRAVEL	420X			0.0426		0.0426					
TN	A.17.5		SERVICE INQUIRY	SDWC			0.0888		0.0015					
TN	A.17.5		SERVICE INQUIRY	230X			0.1253		0.0021					
TN	A.17.5		ENGINEERING	JG57			3.7500		-					
TN	A.17.5		ENGINEERING	4FXX			0.2783		-					
TN	A.17.5		ENGINEERING	4M1X			0.8350		-					
TN	A.17.5		CONNECT & TEST	420X			2.7000		0.1800					
TN	A.17.5		TRAVEL	420X			0.5000		-					
TN	A.17.6		SERVICE INQUIRY	SDWC			0.0888		0.0015					
TN	A.17.6		SERVICE INQUIRY	230X			0.1253		0.0021					
TN	A.17.6		ENGINEERING	JG57			3.7500		-					
TN	A.17.6		ENGINEERING	4FXX			0.2783		-					
TN	A.17.6		ENGINEERING	4M1X			0.8350		-					
TN	A.17.6		CONNECT & TEST	420X			7.2250		0.2250					
TN	A.17.6		TRAVEL	420X			0.5000		-					

END

Maximum of 25 entries per Cost Element #

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	A	B	C	D	E	F	G	H	I	J	K
1	**Tennessee**										
2	**Nonrecurring Worktimes**										
3	**Study Period: 2000-2002**										
4											
5	**A.17.1**	**Unbundled Loop Modification / Load Coil Removal - Short**									
6											
7				**Worktimes (Min.)**		**Worktimes (Hrs.)**					
8	**Source**	**Description**	**JFC / JG / WS**	**Install**	**Disconnect**	**Install**	**Disconnect**				
9	=(('INPUTS_SERVICE INQUIRY'!E15*H7+F15*I7)/J7)*'Input_Loop+Mod'!D10	SERVICE INQUIRY	SDWC	0.53	0.00	0.0089	0.0000				
10	=(('INPUTS_SERVICE INQUIRY'!E19*H19+F19*I19)/J19)*'Input_Loop+Mod'!D10	SERVICE INQUIRY	230X	0.75	0.00	0.0125	0.0000				
11	=(INPUTS_ENGINEERING!E10/G9	ENGINEERING	JG57	22.50	0.00	0.3750	0.0000				
12	=(INPUTS_ENGINEERING!E11*G11+F11*H11/I11	ENGINEERING	4FXX	1.67	0.00	0.0278	0.0000				
13	=(INPUTS_ENGINEERING!E16*G16+F16*H16)/I16	ENGINEERING	4M1X	5.01	0.00	0.0835	0.0000				
14	='INPUTS_CONNECT&TEST'!E11+E16	CONNECT & TEST	420X	55.44	0.00	0.9240	0.0000				
15	=INPUTS_TRAVEL!E7/G7	TRAVEL	420X	3.00	0.00	0.0500	0.0000				
16											

	A	B	C	D	E	F	G	H	I	J	K
17	**Tennessee**										
18	**Nonrecurring Worktimes**										
19	**Study Period 2000-2002**										
20											
21	**A.17.2**	**Unbundled Loop Modification / Load Coil - Long**									
22											
23				**Worktimes (Min.)**				**Worktimes (Hrs.)**			
24	**Source**	**Description**	**JFC / JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**
25	=(('INPUTS_SERVICE INQUIRY'!E15*H7+F15*I7)/K7)*'Input_Loop+Mod'!D12	SERVICE INQUIRY	SDWC	1.33	0.00	0.0222	0.0000				
26	=(('INPUTS_SERVICE INQUIRY'!E19*H19+F19*I19)/K19)*'Input_Loop+Mod'!D12	SERVICE INQUIRY	230X	1.88	0.00	0.0313	0.0000				
27	=INPUTS_ENGINEERING!E10	ENGINEERING	JG57	225.00	0.00	0.00	0.00	3.7500	0.0000	0.0000	0.0000
28	=INPUTS_ENGINEERING!E11*G11+F11*H11	ENGINEERING	4FXX	16.70	0.00	0.00	0.00	0.2783	0.0000	0.0000	0.0000
29	=INPUTS_ENGINEERING!E16*G16+F16*H16	ENGINEERING	4M1X	50.10	0.00	0.00	0.00	0.8350	0.0000	0.0000	0.0000
30	='INPUTS_CONNECT&TEST'!E24+E29	CONNECT & TEST	420X	640.50	0.00	31.50	0.00	10.6750	0.0000	0.5250	0.0000
31	=INPUTS_TRAVEL!E7/H7	TRAVEL	420X	30.00	0.00	0.00	0.00	0.5000	0.0000	0.0000	0.0000
32											

	A	B	C	D	E	F	G	H	I	J	K
33	**Tennessee**										
34	**Nonrecurring Worktimes**										
35	**Study Period 2000-2002**										
36											
37	**A.17.3**	**Unbundled Loop Modification / Bridged Tap**									
38											
39				**Worktimes (Min.)**		**Worktimes (Hrs.)**					
40	**Source**	**Description**	**JFC / JG / WS**	**Install**	**Disconnect**	**Install**	**Disconnect**				
41	=(('INPUTS_SERVICE INQUIRY'!E15*H7+F15*I7)/J7)*'Input_Loop+Mod'!D10	SERVICE INQUIRY	SDWC	0.53	0.00	0.0089	0.0000				
42	=(('INPUTS_SERVICE INQUIRY'!E19*H19+F19*I19)/J19)*'Input_Loop+Mod'!D10	SERVICE INQUIRY	230X	0.75	0.00	0.0125	0.0000				
43	=INPUTS_ENGINEERING!E10/I9	ENGINEERING	JG57	22.50	0.00	0.3750	0.0000				
44	=(INPUTS_ENGINEERING!E11*G11+F11*H11/I11	ENGINEERING	4FXX	1.67	0.00	0.0278	0.0000				
45	=(INPUTS_ENGINEERING!E16*G16+F16*H16)/I16	ENGINEERING	4M1X	5.01	0.00	0.0835	0.0000				
46	='INPUTS_CONNECT&TEST'!E37+E42	CONNECT & TEST	420X	55.50	0.00	0.9250	0.0000				
47	=INPUTS_TRAVEL!E7/G7	TRAVEL	420X	3.00	0.00	0.0500	0.0000				
48											

	A	B	C	D	E	F	G	H	I	J	K
49	**Tennessee**										
50	**Nonrecurring Worktimes**										
51	**Study Period 2000-2002**										
52											
53	**A.17.5**	**Unbundled Sub-Loop Modification - 2W/4W Copper Distribution Load Coil/Equipment Removal First/Add'l**									
54											
55				**Worktimes (Min.)**				**Worktimes (Hrs.)**			
56	**Source**	**Description**	**JFC / JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**
57	=(('INPUTS_SERVICE INQUIRY'!E15*H7+F15*I7)/k7)*'Input_Loop+Mod'!D10	SERVICE INQUIRY	SDWC	5.33	0.00	0.0888	0.0000	0.0888	0.0000	0.0015	0.0000
58	=(('INPUTS_SERVICE INQUIRY'!E19*H19+F19*I19)/k19)*'Input_Loop+Mod'!D10	SERVICE INQUIRY	230X	7.52	0.00	0.1253	0.0000	0.1253	0.0000	0.0021	0.0000
59	=INPUTS_ENGINEERING!E10	ENGINEERING	JG57	225.00	0.00	0.00	0.00	3.7500	0.0000	0.0000	0.0000
60	=INPUTS_ENGINEERING!E11*G11+F11*H11	ENGINEERING	4FXX	16.70	0.00	0.00	0.00	0.2783	0.0000	0.0000	0.0000
61	=INPUTS_ENGINEERING!E16*G16+F16*H16	ENGINEERING	4M1X	50.10	0.00	0.00	0.00	0.8350	0.0000	0.0000	0.0000
62	='INPUTS_CONNECT&TEST'!E50+E55	CONNECT & TEST	420X	162.00	0.00	10.80	0.00	2.7000	0.0000	0.1800	0.0000
63	=INPUTS_TRAVEL!E7/H7	TRAVEL	420X	30.00	0.00	0.00	0.00	0.5000	0.0000	0.0000	0.0000
64											

	A	B	C	D	E	F	G	H	I	J	K
65	**Tennessee**										
66	**Nonrecurring Worktimes**										
67	**Study Period 2000-2002**										
68											
69	**A.17.6**	**Unbundled Sub-Loop Modification - 2W/4W Copper Distribution Bridged Tap Removal First/Add'l**									
70											
71				**Worktimes (Min.)**				**Worktimes (Hrs.)**			
72	**Source**	**Description**	**JFC / JG / WS**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**	**First Install**	**First Disconnect**	**Addtl Install**	**Addtl Disconnect**
73	=(('INPUTS_SERVICE INQUIRY'!E15*H7+F15*I7)/k7)*'Input_Loop+Mod'!D10	SERVICE INQUIRY	SDWC	5.33	0.00	0.0888	0.0000	0.0888	0.0000	0.0015	0.0000
74	=(('INPUTS_SERVICE INQUIRY'!E19*H19+F19*I19)/k19)*'Input_Loop+Mod'!D10	SERVICE INQUIRY	230X	7.52	0.00	0.1253	0.0000	0.1253	0.0000	0.0021	0.0000
75	=INPUTS_ENGINEERING!E10	ENGINEERING	JG57	225.00	0.00	0.00	0.00	3.7500	0.0000	0.0000	0.0000
76	=INPUTS_ENGINEERING!E11*G11+F11*H11	ENGINEERING	4FXX	16.70	0.00	0.00	0.00	0.2783	0.0000	0.0000	0.0000
77	=INPUTS_ENGINEERING!E16*G16+F16*H16	ENGINEERING	4M1X	50.10	0.00	0.00	0.00	0.8350	0.0000	0.0000	0.0000
78	='INPUTS_CONNECT&TEST'!E63+E68	CONNECT & TEST	420X	433.50	0.00	13.50	0.00	7.2250	0.0000	0.2250	0.0000
79	=INPUTS_TRAVEL!E7/H7	TRAVEL	420X	30.00	0.00	0.00	0.00	0.5000	0.0000	0.0000	0.0000
80											
81											

	A	B	C	D	E	F	G
1	**Tennessee**						
2	**Nonrecurring Worktimes**						
3	**Study Period: 2000-2002**						
4							
5	**A.17.4**	**Unbundled Loop Modification - Additive**					
6							
7				**Worktimes (Min.)**			**Worktimes (Hrs.)**
8	**Source**	**Description**	**JFC / JG / WS**	**Install**	**Disconnect**	**Install**	**Disconnect**
9	=(('INPUTS_SERVICE INQUIRY'!E15*H7+F15*I7)/J7)*'Input_Loop+Mod'!D10	SERVICE INQUIRY	SDWC	0.53	0.00	0.0089	0.0000
10	=(('INPUTS_SERVICE INQUIRY'!E19*H19+F19*I19)/J19)*'Input_Loop+Mod'!D10	SERVICE INQUIRY	230X	0.75	0.00	0.0125	0.0000
11	=(INPUTS_ENGINEERING!E10/I9	ENGINEERING	JG57	22.50	0.00	0.3750	0.0000
12	=(INPUTS_ENGINEERING!E11*G11+F11*H11/I11	ENGINEERING	4FXX	1.67	0.00	0.0278	0.0000
13	=(INPUTS_ENGINEERING!E16*G16+F16*H16)/I16	ENGINEERING	4M1X	5.01	0.00	0.0835	0.0000
14	='INPUTS_CONNECT&TEST'!E11+E16	CONNECT & TEST	420X	55.44	0.00	0.9240	0.0000
15	=INPUTS_TRAVEL!E7/G7	TRAVEL	420X	3.00	0.00	0.0500	0.0000
16							
17	**DEMAND FOR CONDITIONING**		**2000**	**2001**	**2002**		
18							
19	=Input_Demand!E42-Input_Demand!D42	Incoming Demand	4,593	2,376	1,754		
20	=SUM(C19:E19)	Cumulative Demand	8,723				
21							
22	=Input_Demand!J42-Input_Demand!I42	Incoming Demand	1,857	951	702		
23	=SUM(C22:E22)	Cumulative Demand	3,509				
24							
25	# Loops Conditioned Not Recovered Elsewhere		4				
26							
27	**Amount To Be Recovered from xDSL Loops:**						
28	=F9*$C$25*$C$22/$C$20	SERVICE INQUIRY	SDWC			0.0076	
29	=F10*$C$25*$C$22/$C$20	SERVICE INQUIRY	230X			0.0107	
30	=F11*$C$25*$C$22/$C$20	ENGINEERING	JG57			0.3193	
31	=F12*$C$25*$C$22/$C$20	ENGINEERING	4FXX			0.0237	
32	=F13*$C$25*$C$22/$C$20	ENGINEERING	4M1X			0.0711	
33	=F14*$C$25*$C$22/$C$20	CONNECT & TEST	420X			0.7867	
34	=F15*$C$25*$C$22/$C$20	TRAVEL	420X			0.0426	

	A	B	C	D	E	F	G	H	I	J	K
1	**Tennessee**										
2	**Detailed Labor Worktimes**										
3	**Study Period: 2000-2002**										
4											
5	**Item/Description**				**Worktimes (Min.)**			**Probability**			
6	**COMPLEX RESALE SUPPORT GROUP (CRSG)**	**Source**	**Description**	**JG / WS**	**Install**	**1/2 of Col E**	**Install**	**Input_ULM LC BT**	**Input_ULM LC BT**	**# Pairs Deloaded/Short**	**# Pairs Deloaded/Long**
7	CRSG/Acct Team receives LSR & SI	CRSG	SERVICE INQUIRY	SDWC	3.00		100%	67%	33%	10	1
8	CRSG/Acct Team screens LSR & SI	CRSG	SERVICE INQUIRY	SDWC	3.00		100%	67%	33%	10	1
9	CRSG contacts CLEC acknowledging receipt and begins tracking procedures	CRSG	SERVICE INQUIRY	SDWC	4.00		100%	67%	33%	10	1
10	CRSG prepares SI transmittal to OSPE/SAC	CRSG	SERVICE INQUIRY	SDWC	5.00		100%	67%	33%	10	1
11	CRSG receives SI response, prepares LCSC transmittal, confirms log; notifies CLEC; and closes out folder	CRSG	SERVICE INQUIRY	SDWC	10.00		100%	67%	33%	10	1
12	**Order Complications:**							67%	33%	10	1
13	SI not processed within commitment	CRSG	SERVICE INQUIRY	SDWC	10.00		33%	67%	33%	10	1
14	SI response requires negotation with CLEC/OSPE	CRSG	SERVICE INQUIRY		15.00		24%	67%	33%	10	1
15	**Total Minutes (Worktimes * Probabilities)**				**31.90**	**15.95**					
16											
17	**Item/Description**				**Worktimes (Min.)**			**Probability**			
18	**LOCAL CARRIER SERVICE CENTER (LCSC)**	**Source**	**Description**	**JG / WS**	**Install**	**1/2 of Col E**		**Input_ULM LC BT**	**Input_ULM LC BT**	**# Pairs Deloaded/Short**	**# Pairs Deloaded/Long**
19	LCSC receives SI, validates for accuracy and processes for billing.	Interconn Svcs.	SERVICE INQUIRY	230X	45.00	22.50		67%	33%	10	1

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	A	B	C	D	E	F	G	H	I	J
1	**Tennessee**									
2	**Detailed Labor Worktimes**									
3	**Study Period: 2000-2002**									
4										
5	**Item/Description**			**Worktimes (Min.)**						
6	**SERVICE ADVOCACY CENTER (SAC)**	**Source**	**Description**	**JG / WS**	**Install**	**1/2 of E41**	**Inputs_ULM LC BT**	**Inputs_ULM LC BT**	**# Pairs Deloaded/ Short**	**# Pairs Deloaded/ Long**
7	Design of Engineering Work Order	Network	ENGINEERING	JG57	120.00				10	1
8	Encoding	Network	ENGINEERING	JG57	45.00				10	1
9	SAC Coordination	Network	ENGINEERING	JG57	60.00				10	1
10	**Total JG57 Time**				**225.00**					
11	Clerical log of ULM	Network	ENGINEERING	4FXX	20.00	10.00	67%	33%	10	1
12										
13										
14	**Item/Description**			**Worktimes (Min.)**						
15	**ADDRESS AND FACILITY INVENTORY (AFIG)**	**Source**	**Description**	**JG / WS**	**Install**	**1/2 of E24**	**Inputs_ULM LC BT**	**Inputs_ULM LC BT**	**# Pairs Deloaded/ Short**	**# Pairs Deloaded/ Long**
16	Receives job from OSPE and posts records.	Network	ENGINEERING	4M1X	60.00	30.00	67%	33%	10	1
17										

	A	B	C	D	E	F	G	H	I
1	**Tennessee**								
2	**Detailed Labor Worktimes**								
3	**Study Period: 2000-2002**								
4									
5	**Item/Description**				**Worktimes (Min.)**				
6	**OUTSIDE PLANT CONSTRUCTION (OSPC) - Load Coil Short**	**Source**	**Description**	**JG / WS**	**Install**	**Probability**	**# Load Coils Removed**	**# Pairs Deloaded/Short**	
7	**Underground Application**					90%			
8	OSPC sets up manholes	Network	CONNECT & TEST	420X	120.00		2.1	10	
9	OSPC opens/closes splices	Network	CONNECT & TEST	420X	60.00				
10	OSPC deloads 10 pairs	Network	CONNECT & TEST	420X	90.00				
11	**Total WorkTime - ULM-LC-Short-Underground**	**=((E8+E9+E10)*G8*F7)/H8**			**51.03**				
12	**Buried/Aerial Application**					10%			
13	OSPC sets up manholes	Network	CONNECT & TEST	420X	60.00		2.1	10	
14	OSPC opens/closes splices	Network	CONNECT & TEST	420X	60.00				
15	OSPC deloads 10 pairs	Network	CONNECT & TEST	420X	90.00				
16	**Total WorkTime - ULM-LC-Short-Buried/Aerial**	**=((E13+E14+E15)*G13*F12)/H13**			**4.41**				
17									
18	**Item/Description**				**Worktimes (Min.)**				
19	**OUTSIDE PLANT CONSTRUCTION (OSPC) - Load Coil Long**	**Source**	**Description**	**JG / WS**	**First Install**	**Addtl Install**	**Probability**	**# Load Coils Removed**	**# Pairs Deloaded/Long**
20	**Underground Application**						90%		
21	OSPC sets up manholes	Network	CONNECT & TEST	420X	120.00			3.5	1
22	OSPC opens/closes splices	Network	CONNECT & TEST	420X	60.00				
23	OSPC deloads one pair	Network	CONNECT & TEST	420X	9.00	9.00			
24	**Total WorkTime - ULM-LC-Long-Underground**	**=((E21+E22+E23)*H21*G20)/I21**			**595.35**	**28.35**			
25	**Buried/Aerial Application**						10%		
26	OSPC sets up manholes	Network	CONNECT & TEST	420X	60.00			3.5	1
27	OSPC opens/closes splices	Network	CONNECT & TEST	420X	60.00				
28	OSPC deloads one pair	Network	CONNECT & TEST	420X	9.00	9.00			
29	**Total WorkTime - ULM-LC-Long-Buried/Aerial**	**=((E26+E27+E28)*H26*G25)/I26**			**45.15**	**3.15**			
30									
31	**Item/Description**				**Worktimes (Min.)**				
32	**OUTSIDE PLANT CONSTRUCTION (OSPC) - Bridged Tap**	**Source**	**Description**	**JG / WS**	**Install**		**# Bridged Taps**	**# Pairs Deloaded/Short**	
33	**Underground Application**						1.00		
34	OSPC - Setup	Network	CONNECT & TEST	420X	120.00			10	
35	OSPC open/close splice	Network	CONNECT & TEST	420X	60.00				
36	OSPC removes bridged tap	Network	CONNECT & TEST	420X	45.00				
37	**Total WorkTime - ULM-BTUnderground**	**=((E34+E35+E36)*G33)/H34**			**22.50**				
38	**Aerial/Buried Application**						2.00		
39	OSPC - Setup	Network	CONNECT & TEST	420X	60.00			10	
40	OSPC open/close splice	Network	CONNECT & TEST	420X	60.00				
41	OSPC removes bridged tap	Network	CONNECT & TEST	420X	45.00				
42	**Total WorkTime - ULM-BT-Buried/Aerial**	**=((E39+E40+E41)*G38)/H39**			**33.00**				
43									

	A	B	C	D	E	F	G	H	I
44	**Item/Description**				**Worktimes (Min.)**				
45	**OUTSIDE PLANT CONSTRUCTION (OSPC) - Load Coil Sub-Loop**	**Source**	**Description**	**JG / WS**	**First Install**	**Addtl Install**	**Probability**	**# Load Coils Removed**	**# Pairs Deloaded/Long**
46	**Underground Application**						10%		
47	OSPC sets up manholes	Network	CONNECT & TEST	420X	120.00			1.2	1
48	OSPC opens/closes splices	Network	CONNECT & TEST	420X	60.00				
49	OSPC deloads one pair (E90/L88)	Network	CONNECT & TEST	420X	9.00	9.00			
50	**Total WorkTime - ULM-LC Sub-Loop-Underground**	**=((E47+E48+E49)*H47*G46)/I47**			**22.68**	**1.08**			
51	**Buried/Aerial Application**						90%		
52	OSPC sets up manholes	Network	CONNECT & TEST	420X	60.00			1.2	1
53	OSPC opens/closes splices	Network	CONNECT & TEST	420X	60.00				
54	OSPC deloads one pair (E94/L88)	Network	CONNECT & TEST	420X	9.00	9.00			
55	**Total WorkTime - ULM-LC Sub-Loop-Buried/Aerial**	**=((E52+E53+E54)*H52*G51)/I52**			**139.32**	**9.72**			
56									
57	**Item/Description**				**Worktimes (Min.)**				
58	**OUTSIDE PLANT CONSTRUCTION (OSPC) - Bridged Tap Sub-Loop**	**Source**	**Description**	**JG / WS**	**First Install**	**Addtl Install**		**# Bridged Taps**	**# Pairs Deloaded/Long**
59	**Underground Application**							1	
60	OSPC - Setup	Network	CONNECT & TEST	420X	120.00				1
61	OSPC open/close splice	Network	CONNECT & TEST	420X	60.00				
62	OSPC removes bridged tap	Network	CONNECT & TEST	420X	4.50	4.50			
63	**Total WorkTime - ULM-BT Sub-Loop-Underground**	**=((E60+E61+E62)*H59)/I60**			**184.50**	**4.50**			
64	**Aerial/Buried Application**							2	
65	OSPC - Setup	Network	CONNECT & TEST	420X	60.00				1
66	OSPC open/close splice	Network	CONNECT & TEST	420X	60.00				
67	OSPC removes bridged tap	Network	CONNECT & TEST	420X	4.50	4.50			
68	**Total WorkTime - ULM-BT Sub-Loop-Buried/Aerial**	**=((E65+E66+E67)*H64)/I65**			**249.00**	**9.00**			

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	A	B	C	D	E	F	G	H
1	**Tennessee**							
2	**Detailed Labor Worktimes**							
3	**Study Period: 2000-2002**							
4								
5	**Item/Description**				**Worktimes (Min.)**			
6	**OUTSIDE PLANT CONSTRUCTION (OSPC)**	**Source**	**Description**	**JG / WS**	**Install**	**Disconnect**	**# Pairs Deloaded/Short**	**# Pairs Deloaded/Long**
7	OSPC travels to load coil/ equipment sites.	Network	TRAVEL	420X	30.00	0.00	10	1

	A	B	C	D	E	F
1	**Tennessee**					
2	**Adjustment for Loop Modification Worktimes - ULM - Short**					
3	**Study Period: 2000-2002**					
4						
5						
6						
7	**% of Loop and Modification Inquiries/Orders that arrive separately**					
8						
9						
10		Short Loops		20%		
11						
12		Long Loops		5%		
13						
14						
15						
16						
17						
18	**Source:**	Interconnection Services				

	A	B	C	D	E	F	G	H
1	**Tennessee**							
2	**Adjustment for BT/LC Inquiries in same SI**							
3	**Study Period: 2000-2002**							
4								
5								
6								
7								
8	% ULM-LC and ULM-BT requests come from CLEC at same time							33%
9								
10	ULM-LC and ULM_BT requests are assumed to be separate orders with							67%
11	33% being ordered at the same time. This efficiency is captured							
12	in the ULM-LC and ULM-BT elements equally.							

Tennessee

Conditioning/xDSL Loop Demand

Source: Interconnect Service

Study Period: 2000-2002

Percent to require Loop Conditioning	40%

Assumptions:

1. Loop growth in all cases (Where there are forecasted loops in 2000) is 50% from EOY 2000 til EOY 2002; 25% thereafter

2. Percentage of loops that require conditioning is indicated in cell C6

3. UCL is subdivided as follows:
   - -95% of UCL are 2 wire
     - -95% of 2 wire UCL are under 18 kilofeet
     - -5% of 2 wire UCL are over 18 kilofeet
   - -5% of UCL are 4 wire

Conditioning Information For Cost Recovery

# of Loops Conditioned During Dispatch	Interconnection	10
# Average Conditionings Per Order	Interconnection	2
# of Conditions Reused by CLEC or BST	Interconnection	4
# of Conditions Unrecovered	=D19-D20-D21	4

Loop and Conditioning Demand

		Total Loops				With Loop Conditioning			
Service	**State**	**1999**	**2000**	**2001**	**2002**	**1999**	**2000**	**2001**	**2002**
609-2W HDSL	TN	0	0	57	69	0	0	23	28
610-2W ADSL	TN	49	3312	4968	6210	0	1325	1987	2484
611 - 4W HDSL	TN	0	9	13	17	0	4	5	7
645 - UCL	TN		1390	2084	2606				
2 Wire UCL (95% of all UCL)	TN		1321	1980	2476				
4 Wire UCL (5% of all UCL)	TN		70	104	130				
2W UCL Less than 18 Kfeet (95 % of total 2 Wirel)	TN	0	1254	1881	2352	0	502	752	941
4W UCL Less than 18 Kfeet (95% of all 4 wire loops)	TN	0	66	99	124	0	26	40	50
Total forecasted inservice xDSL Capable loops by year	**TN**	**49**	**4642**	**7018**	**8772**	**0**	**1857**	**2807**	**3509**

For Reference Only - Not for Use in determining Cost

Tennessee
Index Sheet
Study Period: 2000-2002

Sheet Name:	Description:
Index	Testing Beyond Voice Grade
Investments	CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA
Additives_Recurring	CALCULATOR INPUT FORM - RECURRING EXPENSES DATA
Additives_Nonrecurring	CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA
Recurring Labor	CALCULATOR INPUT FORM - RECURRING LABOR EXPENSES DATA
Nonrecurring Labor	CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES
WP100	Nonrecurring Worktimes
INPUTS_SERVICE ORDER	Detailed Labor Worktimes
INPUTS_CONNECT&TEST	Detailed Labor Worktimes
INPUTS_TRAVEL	Detailed Labor Worktimes
Input_Labor Rates	DIRECTLY ASSIGNED BASIC, OVERTIME, PREMIUM LABOR RATES

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	A	B	C	D	E	F	G	H	I	J
1		**CALCULATOR INPUT FORM - MATERIAL/INVESTMENT DATA**								
2										
3		**Instructions:**								
4		**1. Use this worksheet to record material and/or investments to be input into the**								
5		**Calculator calculations.**								
6		**2. All amounts shown are per unit (e.g., per call, per loop, per MOU).**								
7		**3. Input data, by Cost Element, leaving no blank lines. On next row**								
8		**after last line of data, type END in Cost Element Column.**								
9		**4. All data on this form should be cell-referenced to study workpapers.**								
10		**5. Do NOT change columns, headings, sheet name.**								
11										
12					**Volume**	**Volume**				
13		**Cost**		**Sub**	**Sensitive**	**Insensitive**				
14	**State**	**Element #**	**FRC**	**FRC**	**$ Amount**	**$ Amount**				
15	TN									
16		END								
17										
18										
19										
20										
21										
22										
23										
24										
25										

001411

CALCULATOR INPUT FORM - RECURRING EXPENSES DATA

Instructions:

1. Use this worksheet to record recurring non-labor expenses to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.

State	Cost Element #	Recurring Expense Description (Limited to 25 characters)	Recurring Volume Sensitive $ Amount	Recurring Volume Insensitive $ Amount
TN				
	END			

Maximum 10 entries per Cost Element #

CALCULATOR INPUT FORM - NONRECURRING EXPENSES DATA

Instructions:

1. Use this worksheet to record nonrecurring non-labor expenses to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.
6. Use column D when cost element has a single nonrecurring cost; use columns E & F for elements with a first and additional nonrecurring cost; use columns G & H for elements with an initial and subsequent nonrecurring cost.

State	Cost Element #	Nonrecurring Expense Description (Limited to 25 characters)	Nonrecurring $ Amount	Nonrecurring First $ Amount	Nonrecurring Additional $ Amount	Nonrecurring Initial $ Amount	Nonrecurring Subsequent $ Amount
TN	A.19.1	Total Labor Costs-Basic Per 1/2 Hour		$ 115.59	$ 55.28		
TN	A.19.2	Total Labor Costs-Overtime Per 1/2 Hour		$ 151.23	$ 72.53		
TN	A.19.3	Total Labor Costs-Premium Per 1/2 Hour		$ 186.87	$ 89.79		
	END						

Maximum 10 entries per Cost Element #

	A	B	C	D	E	F	G	H
1		**CALCULATOR INPUT FORM - RECURRING LA BOR EXPENSES DATA**						
2								
3		**Instructions:**						
4		**1. Use this worksheet to record recurring expensed labor times to be input into the**						
5		**Calculator calculations.**						
6		**2. All amounts shown are per unit (e.g., per call, per loop, per MOU).**						
7		**3. Input data, by Cost Element, leaving no blank lines. On next row**						
8		**after last line of data, type END in Cost Element Column.**						
9		**4. All data on this form should be cell-referenced to study workpapers.**						
10		**5. Do NOT change columns, headings, sheet name.**						
11								
12								
13						**Work Time (Hours)**		
14		**Cost**	**Labor Expense Description**	**JFC/**	**Volume**	**Volume**		
15	**State**	**Element #**	**(Limited to 25 characters)**	**Payband**	**Sensitive**	**Insensitive**		
16	TN							
17		END						
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37			Maximum 20 entries per Cost Element #					
38								

CALCULATOR INPUT FORM - NONRECURRING LABOR TIMES

Instructions:

1. Use this worksheet to record nonrecurring labor times to be input into the Calculator calculations.
2. All amounts shown are per unit (e.g., per call, per loop, per MOU).
3. Input data, by Cost Element, leaving no blank lines. On next row after last line of data, type END in Cost Element Column.
4. All data on this form should be cell-referenced to study workpapers.
5. Do NOT change columns, headings, sheet name.
6. Use columns F & G when cost element has a single nonrecurring cost; use columns H, I, J, & K for elements with a first and additional nonrecurring cost; use columns L, M, N & O for elements with an initial and subsequent nonrecurring cost.
7. Input Cost Element Life (in months) on first row of data for each cost element. It is not necessary to repeat on each line.

Study Mid-Point Date (Mos.): 6/1/2001

						(For use w/ one NR)									
State	Cost Element #	Cost Element Life (Mo)	Labor Expense Description (Limited to 25 characters)	JFC/ Payband	Installation Time (Hours)	Disconnect Time Hours	First Installation Time (Hours)	First Disconnect Time Hours	Additional Installation Time (Hours)	Additional Disconnect Time Hours	Initial Installation Time (Hours)	Initial Disconnect Time Hours	Subsequent Installation Time (Hours)	Subsequent Disconnect Time Hours
TN														
	END													

Maximum of 25 entries per Cost Element #

	A	B	C	D	E	F	G	H	I	J
1	Tennessee									
2	Nonrecurring Worktimes									
3	Study Period: 2000-2002									
4										
5	A.19.1	Loop Testing Beyond Voice Grade - Basic Per 1/2 Hour								
6										
7					Worktimes (Min.)		Worktimes (Hrs.)			
8	Source	Description	JFC / JG / WS	First 1/2 Hour	Addtl 1/2 Hour	First 1/2 Hour	Addtl 1/2 Hour	Basic Direct Labor Rate	Basic Cost First 1/2 Hr.	Basic Cost Addtl 1/2 Hr.
9	='INPUTS_SERVICE ORDER'$E$7*$I$7	SERVICE ORDER	230X	1.05	-	0.0175	-	$ 29.26	$ 0.51	$ -
10	='INPUTS_CONNECT&TEST'!$E$20	CONNECT & TEST	4AXX	84.54	57.17	1.4090	0.9528	$ 35.83	$ 50.48	$ 34.14
11	='INPUTS_CONNECT&TEST'!$E$25+$E$26	CONNECT & TEST	411X	45.00	25.00	0.7500	0.4167	$ 42.67	$ 32.00	$ 17.78
12	='INPUTS_CONNECT&TEST'!$E$31	CONNECT & TEST	431X	5.00	5.00	0.0833	0.0833	$ 40.32	$ 3.36	$ 3.36
13	='INPUTS_CONNECT&TEST'!$E$35	CONNECT & TEST	4WXX	15.00	-	0.2500	-	$ 31.60	$ 7.90	$ -
14	=INPUTS_TRAVEL!$E$6	TRAVEL	411X	30.00	-	0.5000	-	$ 42.67	$ 21.34	$ -
15	Total Labor Costs-Basic Per 1/2 Hour	=SUM(I9:I14)							$ 115.59	$ 55.28
16										
17	Tennessee									
18	Nonrecurring Worktimes									
19	Study Period: 2000-2002									
20										
21	A.19.2	Loop Testing Beyond Voice Grade - Overtime Per 1/2 Hour								
22										
23					Worktimes (Min.)		Worktimes (Hrs.)			
24	Source	Description	JFC / JG / WS	First 1/2 Hour	Addtl 1/2 Hour	First 1/2 Hour	Addtl 1/2 Hour	Overtime Direct Labor Rate	Overtime Cost First 1/2 Hr.	Overtime Cost Addtl 1/2 Hr.
25	='INPUTS_SERVICE ORDER'$E$7*$I$7	SERVICE ORDER	230X	1.05	-	0.0175	-	$ 38.79	$ 0.68	$ -
26	='INPUTS_CONNECT&TEST'!$E$20	CONNECT & TEST	4AXX	84.54	57.17	1.4090	0.9528	$ 47.29	$ 66.63	$ 45.06
27	='INPUTS_CONNECT&TEST'!$E$25+$E$26	CONNECT & TEST	411X	45.00	25.00	0.7500	0.4167	$ 55.52	$ 41.64	$ 23.13
28	='INPUTS_CONNECT&TEST'!$E$31	CONNECT & TEST	431X	5.00	5.00	0.0833	0.0833	$ 52.09	$ 4.34	$ 4.34
29	='INPUTS_CONNECT&TEST'!$E$35	CONNECT & TEST	4WXX	15.00	0.00	0.2500	-	$ 40.73	$ 10.18	$ -
30	=INPUTS_TRAVEL!$E$6	TRAVEL	411X	30.00	0.00	0.5000	-	$ 55.52	$ 27.76	$ -
31	Total Labor Costs-Overtime Per 1/2 Hour	=SUM(I25:I30)							$ 151.23	$ 72.53
32										
33	Tennessee									
34	Nonrecurring Worktimes									
35	Study Period: 2000-2002									
36										
37	A.19.3	Loop Testing Beyond Voice Grade - Premium Per 1/2 Hour								
38										
39					Worktimes (Min.)		Worktimes (Hrs.)			
40	Source	Description	JFC / JG / WS	First 1/2 Hour	Addtl 1/2 Hour	First 1/2 Hour	Addtl 1/2 Hour	Premium Direct Labor Rate	Premium Cost First 1/2 Hr.	Premium Cost Addtl 1/2 Hr.
41	='INPUTS_SERVICE ORDER'$E$7*$I$7	SERVICE ORDER	230X	1.05	-	0.0175	-	$ 48.31	$ 0.85	$ -
42	='INPUTS_CONNECT&TEST'!$E$20	CONNECT & TEST	4AXX	84.54	57.17	1.4090	0.9528	$ 58.76	$ 82.79	$ 55.99
43	='INPUTS_CONNECT&TEST'!$E$25+$E$26	CONNECT & TEST	411X	45.00	25.00	0.7500	0.4167	$ 68.36	$ 51.27	$ 28.48
44	='INPUTS_CONNECT&TEST'!$E$31	CONNECT & TEST	431X	5.00	5.00	0.0833	0.0833	$ 63.85	$ 5.32	$ 5.32
45	='INPUTS_CONNECT&TEST'!$E$35	CONNECT & TEST	4WXX	15.00	0.00	0.2500	-	$ 49.85	$ 12.46	$ -

	A	B	C	D	E	F	G	H	I	J
46	=INPUTS_TRAVEL!$E$6	TRAVEL	411X	30.00	0.00	0.5000	-	$ 68.36	$ 34.18	$ -
47	**Total Labor Costs-Premium Per 1/2 Hour**	**=SUM(I41:I46)**							**$ 186.87**	**$ 89.79**

	A	B	C	D	E	F	G	H
1	**Tennessee**							
2	**Detailed Labor Worktimes**							
3	**Study Period: 2000-2002**							
4								
5	**Item/Description**				**Worktimes (Min.)**			
6	**LOCAL CARRIER SERVICE CENTER (LCSC)**	**Source**	**Description**	**JG / WS**	**First 1/2 Hr**	**Addtl 1/2 Hr**	**Probability (Fallout)**	
7	LCSC receives request and issues service order.	Interconn Svcs.	SERVICE ORDER	230X	15.00	0.00	7%	

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1	
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	A	B	C	D	E	F	G
1	**Tennessee**						
2	**Detailed Labor Worktimes**						
3	**Study Period: 2000-2002**						
4	**Item/Description**		**Worktimes (Min.)**				
5	**Unbundled Network Element Center (UNEC) Work Activities**	**Source**	**Description**	**JG / WS**	**First 1/2 Hr**	**Addtl 1/2 Hr**	**Probability / Reuse**
6	**Provisioning Variables**						
7	(1) Status/Info (55% of orders at 2.4 min.)	Interconn Svcs.	CONNECT & TEST	4AXX	2.40	2.40	55%
8	(2) Escalations (12% of orders at 7.2 min.)	Interconn Svcs.	CONNECT & TEST	4AXX	7.20	7.20	12%
9	(3) Assist Calls (6% of orders at 15.6 min.)	Interconn Svcs.	CONNECT & TEST	4AXX	15.60	15.60	6%
10	(4) Jeopardy (25% of orders at 1.8 min.)	Interconn Svcs.	CONNECT & TEST	4AXX	1.80	1.80	25%
11	**Total of Worktimes * Probabilities**				**3.57**	**3.57**	
12							
13	UNEC pulls order information and assigns to work groups.	Interconn Svcs.	CONNECT & TEST	4AXX	8.00	0.00	100%
14	Provisioning variables - when UNEC pulls order information (Row 11)	Interconn Svcs.	CONNECT & TEST	4AXX	3.57	3.57	100%
15	Verifies and ensures accuracy of order design	Interconn Svcs.	CONNECT & TEST	4AXX	3.00	3.00	100%
16	Ensures dispatch	Interconn Svcs.	CONNECT & TEST	4AXX	5.00	0.00	100%
17	Performs frame continuity and due date coordination and testing	Interconn Svcs.	CONNECT & TEST	4AXX	53.60	53.60	100%
18	UNEC contacts customer and completes order	Interconn Svcs.	CONNECT & TEST	4AXX	10.80	0.00	100%
19	Provisioning Variables - when UNEC contacts customer and completes order (Row 11)	Interconn Svcs.	CONNECT & TEST	4AXX	3.57	0.00	100%
20	**Total Minutes (Worktimes * Probabilities)**	**E13*G13, etc.**			**84.54**	**57.17**	
21							
22	**Item/Description**			**Worktimes (Min.)**			
23	**SPECIAL SERVICES INSTALLATION & MAINTENANCE (SSI&M) WORK ACTIVITIES**	**Source**	**Description**	**SSIM JG / WS**	**First 1/2 Hr**	**Addtl 1/2 Hr**	
24							
25	Processes requests	Network	CONNECT & TEST	411X	20.00	0.00	
26	Conducts field test	Network	CONNECT & TEST	411X	25.00	25.00	
27							
28							
29	**Item/Description**			**Worktimes (Min.)**			
30	**CENTRAL OFFICE FORCES (CO)**	**Source**	**Description**	**JG / WS**	**First 1/2 Hr**	**Addtl 1/2 Hr**	
31	CO conducts central office test.	Network	CONNECT & TEST	431X	5.00	5.00	
32							
33	**Item/Description**			**Worktimes (Min.)**			
34	**WORK MANAGEMENT CENTER (WMC)**	**Source**	**Description**	**JG / WS**	**First 1/2 Hr**	**Addtl 1/2 Hr**	
35	WMC coordinates dispatched technicians	Network	CONNECT & TEST	4WXX	15.00	0.00	

	A	B	C	D	E	F	G
1	**Tennessee**						
2	**Detailed Labor Worktimes**						
3	**Study Period: 2000-2002**						
4	**Item/Description**			**Worktimes (Min.)**			
5	**SPECIAL SERVICES INSTALLATION & MAINTENANCE (SSI&M) WORK ACTIVITIES**	**Source**	**Description**	**SSIM JG /WS**	**First 1/2 Hr**	**Addtl 1/2 Hr**	**Probability (Fallout)**
6	Conducts field test	Network	TRAVEL	411X	30.00	0.00	100%

	A	B	C	D
1	**Tennessee**			
2	**DIRECTLY ASSIGNED BASIC, OVERTIME, PREMIUM LABOR RATES**			
3	**Study Period: 2000-2002**			
4				
5	**BASIC**			
6		**JFC or**	**WORK GROUP**	**LABOR**
7	**ENTITY**	**JG/WS**	**DESCRIPTION**	**RATE**
8	Regional	230x	LCSC	$ 29.26
9	Regional	4AXX	Acc Cust Advocate Cntr (ACAC)	$ 35.83
10	Regional	411X	Install & Mtce - Spec Svcs (SSIM)	$ 42.67
11	Regional	431X	CO Install & Mtce Field - Ckt & Fac	$ 40.32
12	Regional	4WXX	Work Management Center (WMC)	$ 31.60
13				
14	**OVERTIME**			
15		**JFC or**	**WORK GROUP**	**LABOR**
16	**ENTITY**	**JG/WS**	**DESCRIPTION**	**RATE**
17	Regional	230x	LCSC	$ 38.79
18	Regional	4AXX	Acc Cust Advocate Cntr (ACAC)	$ 47.29
19	Regional	411X	Install & Mtce - Spec Svcs (SSIM)	$ 55.52
20	Regional	431X	CO Install & Mtce Field - Ckt & Fac	$ 52.09
21	Regional	4WXX	Work Management Center (WMC)	$ 40.73
22				
23	**PREMIUM**			
24		**JFC or**	**WORK GROUP**	**LABOR**
25	**ENTITY**	**JG/WS**	**DESCRIPTION**	**RATE**
26	Regional	230x	LCSC	$ 48.31
27	Regional	4AXX	Acc Cust Advocate Cntr (ACAC)	$ 58.76
28	Regional	411X	Install & Mtce - Spec Svcs (SSIM)	$ 68.36
29	Regional	431X	CO Install & Mtce Field - Ckt & Fac	$ 63.85
30	Regional	4WXX	Work Management Center (WMC)	$ 49.85
31				
32				
33				
34				
35	**Source:**	**Finance Cost Matters**		