

**Alcoa Power Generating Inc. Tapoco Division
Tapoco Hydroelectric Project (FERC No. 2169)**

**Licensed Hydropower Development
Recreation Report
FERC Form 80**

April 1, 2009



APGI Tapoco Division
P.O. Box 576
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Introduction

The Federal Energy Regulatory Commission (FERC) Licensed Hydropower Development Recreation Report (FERC Form 80) collects data on recreational resources at FERC licensed projects and all data reported on the form must represent recreational facilities and services located within the licensed project boundary. This report includes a description of the methodologies used to complete the FERC Form 80 (April 1, 2009) for Alcoa Power Generating Inc.'s (APGI) Tapoco Project (FERC No. 2169). APGI collected recreational use data at all the recreation areas at the four-development Tapoco Project that are either 1) located within the FERC Project boundary and/or 2) provide direct access to Project lands and/or waters ('FERC Form 80 sites'). A complete list of these recreation areas is below.

<u>Reservoir</u>	<u>Recreation Area</u>
Santeetlah	Santeetlah Dam Overlook Cheoah Point Boat Access Area Cheoah Point Campground Cheoah Point Day Use Area Santeetlah Marina Massey Branch Boat Access Area Massey Branch Fishing Pier Avery Branch Boat Access Area Cheoah River Pull-off Areas USFS Dispersed Campsites Cheoah River Put-in
Cheoah	Panel Branch Boat Access Area Farley Branch Boat Access Area Twenty Mile Creek Cheoah Dam Overlook
Calderwood	Cheoah Powerhouse Tailrace on Calderwood Reservoir Magazine Branch Boat Access and Picnic Area/Cheoah River Take-out Slickrock Creek Boat-in Camp Site Slickrock Trailhead Parking Area
Chilhowee	Calderwood Village Tab Cat Boat Access Area Gravel Pile Boat Access Area Abram's Creek Bridge Pull-off Area Happy Valley Boat Access Area Chigger Beach Highway 129 Day Use Areas Pear Tree Boat Access and Camping Area

In addition to collecting recreation use data at the recreation areas in 2008, APGI relied on existing sources of information to complete the FERC Form 80 including the April 1, 2003 Tapoco Form 80, and a *Recreation Facilities Inventory* (EDAW, Inc. 2002).

The organization of this report follows the FERC Form 80 organization. The section numbers correspond to section numbers of the Form 80.

Schedule 1: General Information

1. Licensee Name

The Tapoco Project is licensed to APGI, Tapoco Division.

2. Project Name

The four-development project is named the Tapoco Hydroelectric Project.

3. Project Number

FERC licenses the Tapoco Project as FERC No. 2169.

4. Development Name

The Santeetlah, Cheoah, Calderwood, and Chilhowee developments make up the Tapoco Project.

5. State(s) Project Traverses State #1

The Santeetlah, Cheoah, and Calderwood developments are located wholly or partly within North Carolina.

6. State(s) Project Traverses State #2

The Calderwood and Chilhowee developments are located wholly or partly within Tennessee.

7. Type of Project License

FERC issued APGI, Tapoco Division a Major license for the Tapoco Project.

8. Reservoir Surface Area at Normal Pool (acres)

The Santeetlah Development is located on the Cheoah River. The Cheoah, Calderwood, and Chilhowee developments are located on the Little Tennessee River. The reservoir surface areas for each of the developments are:

Development	Surface Area (in acres)
Santeetlah	2,881
Cheoah	644
Calderwood	570
Chilhowee	1,734

Source: Tapoco Project Draft Environmental Assessment (DEA), 2003.

9. Shoreline Miles at Normal Pool Elevation

The shoreline miles at the normal pool elevation of each of the four reservoirs are:

Development	Shoreline Miles at Normal Pool Elevation
Santeetlah	78.8
Cheoah	19.8
Calderwood	17.1
Chilhowee	26.1

Source: Tapoco Project DEA, 2003.

10. Percent of Shoreline Safely Accessible to the General Public by Land Travel Without Trespassing

The percent of shoreline safely accessible to the general public by land travel without trespassing at each of the developments is:

Development	Percent of Shoreline Safely Accessible to General Public by Land Travel
Santeetlah	45.0%
Cheoah	20.0%
Calderwood	2.0%
Chilhowee	40.0%

Source: Tapoco Form 80, 2003.

11. Data Collection Methods (enter percent for each method used, total must equal 100%)

- traffic count/trail count
- attendance records
- 50% staff observations
- visitor assessment
- 50% estimate

12. Licensee’s Annual Recreation Costs and Revenues

Tapoco’s annual recreation costs (including construction, operation and maintenance costs) and revenues for the four developments (in whole dollars) for the period January 1, 2008 through December 31, 2008 were:

Development	Recreation Costs (\$)	Revenues (\$)
Santeetlah	\$132,912	0
Cheoah	\$147,100	0
Calderwood	\$120,641	0
Chilhowee	\$88,053	0

Source: APGI, Tapoco Division.

13. Length of the Recreation Season

The length of the summer recreation season is generally May 15th through September 15th and the length of the winter recreation season is generally September 16th through May 14th.

14. & 15. Number of Visits to All Recreational Areas (in Recreation Days)

This section presents an estimate of annual total daytime and nighttime recreation use for the period January 1, 2008 through December 31, 2008, as well as daytime and nighttime peak weekend averages. The 2008 annual total (daytime and nighttime) and 2008 peak weekend average (daytime and nighttime) for the four developments are shown below. The entire table of calculations is included as Attachment E.

Development and Time Period	Annual Total (recreation days)	Peak Weekend Average (recreation days)
Santeetlah		
Daytime	54,738	6,156
Nighttime	11,988	1,348
Cheoah		
Daytime	6,102	547
Nighttime	0	0
Calderwood		
Daytime	21,326	889
Nighttime	3,903	163
Chilhowee		
Daytime	81,062	7,333
Nighttime	36,802	3,329
TOTAL		
Daytime	163,228	14,926
Nighttime	52,693	4,840

Calculations for Annual Total Daytime and Nighttime Recreation Days

APGI calculated estimated annual total recreation days at the Tapoco Project based on spot count data collected during the period January 1, 2008 and December 31, 2008. APGI collected spot count data during each season (Spring, Summer, Fall, and Winter) at each recreation area for one weekday, one weekend day, and two peak weekend days, one day each during the Memorial Day and July 4th holiday weekends. Spring included the months of March, April, and May. Summer included June, July, and August. Fall included September, October, and November. Winter included December, January, and February. The spot count data for persons, vehicles, and boat trailers were totaled for each of the four developments by type of day and season. Using the total vehicle spot count, the following equation was used to estimate recreational use at each public access recreation area by type of day per season:

Type of day use = total vehicles per day x people per vehicle x seasonal average project turnover rate x no. of days (weekdays, weekend days or peak weekend days in the season).

The total people per vehicle, user turnover rate, and no. of days by type of day are provided in Attachments A, B, and C.

Each development's seasonal use was obtained by adding up the total weekday use + weekend use + peak weekend use by season. Each development's total annual recreation day use was obtained by adding the total recreation use for each season.

The peak weekend average use was calculated for each development using the average total number of vehicles counted in the formula above and using 9 peak weekend days for the year, 3 days each for Memorial Day weekend, July 4th weekend, and Labor Day weekend.

Annual total nighttime numbers were calculated using the 2003 Form 80 ratio of number of annual total nighttime recreation days to the number of annual total daytime recreation days. This ratio was used because no nighttime use spot counts were conducted during the 2008 survey. The percent calculation for annual total nighttime use is the same as the percent calculation for peak weekend overnight use at each development and is provided in the table below.

Peak weekend average nighttime numbers were calculated using the 2003 Form 80 ratio of the number of peak weekend average nighttime recreation days to the number of peak weekend average daytime recreation days. This ratio was used because no peak weekend nighttime use spot counts were conducted during the 2008 survey. The percent calculation for nighttime use is provided in the table below.

Development	Percent of Annual Total and Peak Weekend Average Daytime = Nighttime
Santeetlah	21.9%
Cheoah	0.00%
Calderwood	18.3%
Chilhowee	45.4%

Source: Tapoco Form 80, 2003.

Schedule 2: Inventory of Recreational Resources

While this report relies somewhat on the facility inventory information summarized in the *Recreation Facilities Inventory*, EDAW 2002, APGI has considered and accounted for the following changes at the Tapoco Project recreation areas since the Project's relicensing in 2005:

- The U.S. Forest Service (USFS) has constructed a whitewater boating put-in and take-out area on the Cheoah River below Santeetlah Dam. The put-in area is immediately below Santeetlah Dam while the take-out area is some nine miles downstream at the pre-existing Magazine Branch Boat Access Area.
- The USFS has completed its renovation to the Cheoah Point Campground.
- APGI, the USFS, and the NC Wildlife Resources Commission (NCWRC) have built a fishing pier in the vicinity of the pre-existing Massey Branch Boat Access Area.
- APGI and the TN Wildlife Resources Agency (TWRA) have closed the Gravel Pile Boat Access Area (the launch ramps at this area have been closed) and constructed two new fishing piers on Chilhowee Reservoir.
- APGI and TWRA have prohibited camping at the US Highway 129 pull-off areas along Chilhowee Reservoir and made certain improvements to promote day-use of these areas.

The inventory of recreational resources for each development is shown below.

		Santeetlah		
Recreational Resource Type		No. of Available Resources		Total Miles/Acres
		User Free	User Fee	
BOATING	Access Areas	2		
	Boat Launch Areas	3	1	
	Boat Launch Lanes	3	1	
	Marinas		1	0.25 acres
	Whitewater Boating		1	
	Canoe Portages			
FISHING	Tailwater Fishing Facilities			
	Fishing Piers	1		
PARKS	Parks			
	Playground Areas			
	Trails			
	Swimming Areas	1		0 acres

Santeetlah				
	Recreational Resource Type	No. of Available Resources		Total Miles/Acres
		User Free	User Fee	
	Picnic Areas	3		
	Wildlife Areas			
	Visitor Centers			
	Interpretive Displays	1		
	Overlooks	2		
	Hunting Areas			
	Golf Courses			
CAMPS	Cottage/Cabin Sites			
	Camping Areas	1	1	
	Tent/Trailer/RV Sites	16	26	
	Organizational Camps			
	Group Camps			
	Winter Sports			
	Other			

Note: Access areas do not have formal boat launching or swimming areas, but access to the water is provided.

Cheoah				
	Recreational Resource Type	No. of Available Resources		Total Miles/Acres
		User Free	User Fee	
BOATING	Access Areas	1		
	Boat Launch Areas	3		
	Boat Launch Lanes	2		
	Marinas			
	Whitewater Boating			
	Canoe Portages			
FISH-ING	Tailwater Fishing Facilities	1		
	Fishing Piers			
PARKS	Parks			
	Playground Areas			
	Trails			
	Swimming Areas			
	Picnic Areas	2		
	Wildlife Areas			
	Visitor Centers			
	Interpretive Displays			
	Overlooks	1		
	Hunting Areas			
	Golf Courses			
CAMPS	Cottage/Cabin Sites			
	Camping Areas	1		
	Tent/Trailer/RV Sites	1		
	Organizational Camps			
	Group Camps			

Cheoah			
		No. of Available Resources	
	Winter Sports		
	Other		

Note: Access areas do not have formal boat launching or swimming areas, but access to the water is provided.

Calderwood				
Recreational Resource Type		No. of Available Resources		Total Miles/Acres
		User Free	User Fee	
BOATING	Access Areas	2		
	Boat Launch Areas	2		
	Boat Launch Lanes	2		
	Marinas			
	Whitewater Boating	1		
	Canoe Portages			
FISH-ING	Tailwater Fishing Facilities			
	Fishing Piers			
PARKS	Parks			
	Playground Areas			
	Trails	1		13.5 miles
	Swimming Areas			
	Picnic Areas	1		
	Wildlife Areas			
	Visitor Centers			
	Interpretive Displays			
	Overlooks			
	Hunting Areas			
	Golf Courses			
CAMPS	Cottage/Cabin Sites			
	Camping Areas	2		
	Tent/Trailer/RV Sites	5		
	Organizational Camps			
	Group Camps			
	Winter Sports			
	Other			

Note: Access areas do not have formal boat launching or swimming areas, but access to the water is provided.

Chilhowee				
Recreational Resource Type		No. of Available Resources		Total Miles/Acres
		User Free	User Fee	
BOAT-ING	Access Areas	4		
	Boat Launch Areas	3		
	Boat Launch Lanes	3		

	Marinas			
	Whitewater Boating			
	Canoe Portages			
FISH-ING	Tailwater Fishing Facilities			
	Fishing Piers	2		
PARKS	Parks			
	Playground Areas			
	Trails			
	Swimming Areas			
	Picnic Areas	3		
	Wildlife Areas			
	Visitor Centers			
	Interpretive Displays			
	Overlooks	1		
	Hunting Areas			
CAMPS	Golf Courses			
	Cottage/Cabin Sites			
	Camping Areas	1		
	Tent/Trailer/RV Sites	10		
	Organizational Camps			
	Group Camps			
	Winter Sports			
	Other			

Note: Access areas do not have formal boat launching or swimming areas, but access to the water is provided.

16. Facility Capacity

Crowding at the public access sites surveyed during weekends (peak weekend days were excluded) is low throughout the Tapoco Project. Parking capacity is equal to the number of parking spaces at each site (*Recreation Facilities Inventory* [EDAW, 2002] and 2003 FERC Form 80). For the Form 80, the average total vehicles in parking areas were calculated using the spot count data. The average total vehicles were divided by the parking capacity at each site to calculate the capacity of the site used. The average percent capacity for the Facility Capacity Column of FERC Form 80 Schedule 2 is shown below. The boat launching lane capacity for a site was calculated by dividing the total number of boats launched per day (average no. of trailers counted x turnover rate) by the sites launching lane capacity based on 50 launches and retrievals per day per launch lane. The facility capacity calculations are included as Attachment D.

Recreation Resource Type	Development			
	Santeetlah	Cheoah	Calderwood	Chilhowee
Access Areas	33%	2%	36%	34%
Boat Ramps	10%	13%	59%	20%
Boat Launching Lanes	8%	2%	10%	6%
Marinas	N/A	N/A	N/A	N/A
Tailwater Fishing	N/A	N/A	N/A	N/A
Fishing Piers	4%	N/A	N/A	8%
Trails	N/A	N/A	36%	N/A
Swimming Areas	0%	N/A	N/A	N/A

	Development			
Picnic Areas	10%	19%	59%	23%
Interpretive Displays	24%	N/A	N/A	N/A
Overlooks	19%	2%	N/A	42%
Camping Areas	24%	25%	59%	10%
Tent/Trailer/RV Sites	24%	25%	59%	10%

N/A = Not applicable or parking data not available.

Parking data was not collected for the following Form 80 sites: Santeetlah Marina, U.S. Forest Service (USFS) Dispersed Campsites, Slickrock Creek Boat-in Camp Site, and Chigger Beach. Recreation use data was requested from the commercial marinas and campgrounds but the operators did not provide the requested recreation use data.

The calculations shown in this report were used to complete the Form 80 reports for the Santeetlah, Cheoah, Calderwood, and Chilhowee developments. The completed Form 80 reports for each of the four developments are included as Attachment F.

Attachment A

Tapoco – People per Vehicle

Development	People per Vehicle	People per Motorcycle
Santeetlah	3.8	1.4
Cheoah	3.8	1.4
Calderwood	3.8	1.4
Chilhowee	3.8	1.4

Source, People per Vehicle: EDAW, Inc. 2002.

People per Motorcycle estimated from 2008 spot count data.

Attachment B

Tapoco - User Turnover Rate: 2.00 (Source: EDAW, Inc. 2002)

Attachment C

Tapoco - Type of Days per Month and Season for 2008

Month	Weekdays by Month	Total Weekdays by Season	Weekend Days by Month	Total Weekend Days by Season	Holidays by Month	Total Holidays by Season	Total Days per Month	Total Days per Season
March	21	Spring 64	10	Spring 25	0	Spring 3	31	Spring 92
April	22		8		0		30	
May	21		7		3		31	
June	21	Summer 64	9	Summer 23	0	Summer 5	30	Summer 92
July	22		6		3		31	
August	21		8		2		31	
September	21	Fall 64	8	Fall 26	1	Fall 1	30	Fall 91
October	23		8		0		31	
November	20		10		0		30	
December	23	Winter 65	8	Winter 26	0	Winter 0	31	Winter 91
January	22		9		0		31	
February	20		9		0		29	
Total	257		100		9		366	

Attachment D

Tapoco - Facility Capacities

Site	Reservoir	Name	Average Total Vehicles in Lot	Parking Capacity	Percent Capacity
1	Santeetlah	Santeetlah Dam Overlook	0.50	10	5.00%
2		Cheoah Point Boat Access Area	1.75	18	9.72%
3		Cheoah Point Campground	5.25	22	23.86%
4		Cheoah Point Day Use Area	0.00	33	0.00%
5		Santeetlah Marina	N/A	50	N/A
9		Massey Branch Boat Access Area	5.25	25	21.00%
Blank		Massey Branch Fishing Pier	0.25	6	4.17%
16		Avery Branch Boat Access Area	0.00	20	0.00%
24		Cheoah River Pull-off Areas	3.00	9	33.33%
37		USFS Dispersed Campsites	11.25	N/A	N/A
Blank		Cheoah River Put-in	N/A	N/A	N/A
AVERAGE FORM 80 SITES					12.14%
18	Cheoah	Panel Branch Boat Access Area	0.50	25	2.00%
19		Farley Branch Boat Access Area	1.00	8	12.50%
21		Twenty Mile Creek	1.00	4	25.00%
22		Cheoah Dam Overlook	0.25	16	1.56%
AVERAGE FORM 80 SITES					10.27%
23	Calderwood	Cheoah Powerhouse Tailrace on Calderwood Reservoir	N/A	0	N/A
25		Magazine Branch Boat Access and Picnic Area/Cheoah River Take-out	11.75	20	58.75%
26		Slickrock Creek Boat-in Camp Site	N/A	0	N/A
26a		Slickrock Trailhead Parking Area	2.50	7	35.71%
AVERAGE FORM 80 SITES					47.23%
29	Chilhowee	Calderwood Village	1.00	20	5.00%
30		Tab Cat Boat Access Area	6.75	37	18.24%
31		Gravel Pile Boat Access Area	5.00	60	8.33%
32		Abram's Creek Bridge Pull-off Area	2.50	6	41.67%
33		Happy Valley Boat Access Area	6.50	20	32.50%
34		Chigger Beach	N/A	0	N/A

Site	Reservoir	Name	Average Total Vehicles in Lot	Parking Capacity	Percent Capacity
35		Highway 129 Day Use Areas	13.75	25	55.00%
36		Pear Tree Boat Access and Camping Areas	5.75	55	10.5%
AVERAGE FORM 80 SITES					24.46%

N/A = Not Applicable or parking data not available.

Tapoco - Boat Launching Lane Capacities

Recreation Area	Total Boat Trailers - all spot counts	Divide by No. of Spot Counts (4)	Ave. Number of Trailers	Site Turnover Rate (2.00)	Number of Boats Launched Per Day	Number of Lanes at Site x 50	Boat Launch Lane Capacity
Santeetlah							
Cheoah Point Boat Access Area	7	4	2	2	4	50	7.00%
Santeetlah Marina	N/A						N/A
Massey Branch Boat Access Area	16	4	4	2	8	50	16.00%
Avery Branch Boat Access Area	0	4	0	2	0	50	0.00%
Cheoah							
Panel Branch Boat Access Area	0	4	0	2	0	50	0.00%
Farley Branch Boat Access Area	4	4	1	2	2	50	4.00%
Calderwood							
Magazine Branch Boat Access and Picnic Area	19	4	5	2	10	100	9.50%
Chilhowee							
Tab Cat Boat Access Area	1	4	0	2	1	50	1.00%
Happy Valley Boat Access Area	14	4	4	2	7	50	14.00%
Pear Tree Boat Access and Camping Areas	4	4	1	2	2	50	4.00%

Facility Capacity Estimates by Reservoir															
Site	Reservoir	Name	Access Areas	Boat Ramps	Launching Lanes	Marinas	Tailwater Fishing	Fishing Piers	Trails	Swimming Areas	Picnic Areas	Interpretive Displays	Overlooks	Camping Areas	Tent/Trailer/RV Sites
1	Santeetlah	Santeetlah Dam Overlook											5.00%		
2		Cheoah Point Boat Access Area		9.72%	7.00%										
3		Cheoah Point Campground										23.86%		23.86%	23.86%
4		Cheoah Point Day Use Area								0.00%	0.00%				
5		Santeetlah Marina		N/A	N/A	N/A					N/A				
9		Massey Branch Boat Access Area		21.00%	16.00%						21.00%				
Blank		Massey Branch Fishing Pier						4.17%							
16		Avery Branch Boat Access Area		0.00%	0.00%										
24		Cheoah River Pull-off Areas	33.33%										33.33%		
37		USFS Dispersed Campsites												N/A	N/A
Blank		Cheoah River Put-in	N/A												
AVERAGE FORM 80 SITES			33.33%	10.24%	7.67%	N/A	N/A	4.17%	N/A	0.00%	10.50%	23.86%	19.17%	23.86%	23.86%
18	Cheoah	Panel Branch Boat Access Area		2.00%	0.00%										
19		Farley Branch Boat Access Area		12.50%	4.00%						12.50%				
21		Twenty Mile Creek		25.00%							25.00%			25.00%	25.00%
22		Cheoah Dam Overlook	1.56%										1.56%		
AVERAGE FORM 80 SITES			1.56%	13.17%	2.00%	N/A	N/A	N/A	N/A	N/A	18.75%	N/A	1.56%	25.00%	25.00%
23	Calderwood	Cheoah Powerhouse Tailrace on Calderwood Reservoir					N/A								
25		Magazine Branch Boat Access and Picnic Area/Cheoah River Take-out		58.75%	9.50%						58.75%			58.75%	58.75%
26		Slickrock Creek Boat-in Camp Site	N/A											N/A	N/A
26a		Slickrock Trailhead Parking Area	35.71%						35.71%						
AVERAGE FORM 80 SITES			35.71%	58.75%	9.50%	N/A	N/A	N/A	35.71%	N/A	58.75%	N/A	N/A	58.75%	58.75%
29	Chilhowee	Calderwood Village	5.00%								5.00%				
30		Tab Cat Boat Access Area		18.24%	1.00%										
31		Gravel Pile Boat Access Area						8.33%			8.33%				
32		Abram's Creek Bridge Pull-off Area	41.67%										41.67%		
33		Happy Valley Boat Access		32.50%	14.00%										

Facility Capacity Estimates by Reservoir															
Site	Reservoir	Name	Access Areas	Boat Ramps	Launching Lanes	Marinas	Tailwater Fishing	Fishing Piers	Trails	Swimming Areas	Picnic Areas	Interpretive Displays	Overlooks	Camping Areas	Tent/Trailer/RV Sites
		Area													
34		Chigger Beach	N/A												
35		Highway 129 Day Use Areas	55.00%								55.00%				
36		Pear Tree Boat Access and Camping Area		10.5%	4.00%									10.5%	10.5%
AVERAGE FORM 80 SITES			33.89%	20.40%	6.33%	N/A	N/A	8.33%	N/A	N/A	22.78%	N/A	41.67%	10.45%	10.45%

N/A = Not Applicable or parking data not available.

Attachment E

Tapoco - Development Recreation Day Calculations

	Total Vehicles per Spot Count	Party Size	Turnover Rate	No. of Days	Visitor Recreation Days	Development Recreation Day Totals	
Santeetlah - Spring weekdays	12	3.8	2.0	64	5,837		
Santeetlah - Spring weekends	24	3.8	2.0	25	4,560		
Santeetlah - Spring Peak weekend	82	3.8	2.0	3	1,870		
Sub-total:						12,266	Spring
Santeetlah - Summer weekdays	28	3.8	2.0	64	13,619		
Santeetlah - Summer weekdays MCs	3	1.4	2.0	64	538		
Santeetlah - Summer weekends	44	3.8	2.0	23	7,691		
Santeetlah - Summer Peak weekend	99	3.8	2.0	5	3,762		
Sub-total:						25,610	Summer
Santeetlah - Fall weekdays	10	3.8	2.0	64	4,864		
Santeetlah - Fall weekdays MCs	1	1.4	2.0	64	179		
Santeetlah - Fall weekends	26	3.8	2.0	26	5,138		
Santeetlah - Fall Peak weekend	99	3.8	2.0	1	752		
Sub-total:						10,933	Fall
Santeetlah - Winter weekdays	6	3.8	2.0	65	2,964		
Santeetlah - Winter weekends	15	3.8	2.0	26	2,964		
Sub-total:						5,928	Winter
Santeetlah Total:						54,738	All Seasons
Santeetlah - Hol/Peak Weekend Ave.	90	3.8	2.0	9	6,156		
Total:						6,156	Hol./Peak
Cheoah - Spring weekdays	0	3.8	2.0	64	0		
Cheoah - Spring weekends	1	3.8	2.0	25	190		
Cheoah - Spring Peak weekend	8	3.8	2.0	3	182		
Sub-total:						372	Spring
Cheoah - Summer weekdays	1	3.8	2.0	64	486		
Cheoah - Summer weekends	5	3.8	2.0	23	874		

	Total Vehicles per Spot Count	Party Size	Turnover Rate	No. of Days	Visitor Recreation Days	Development Recreation Day Totals	
Cheoah - Summer Peak weekend	8	3.8	2.0	5	304		
Sub-total:						1,664	Summer
Cheoah - Fall weekdays	4	3.8	2.0	64	1,946		
Cheoah - Fall weekdays MCs	2	1.4	2.0	64	358		
Cheoah - Fall weekends	4	3.8	2.0	26	790		
Cheoah - Fall weekends MCs	3	1.4	2.0	26	218		
Cheoah - Fall Peak weekend	8	3.8	2.0	1	61		
Sub-total:						3,374	Fall
Cheoah - Winter weekdays	1	3.8	2.0	65	494		
Cheoah - Winter weekends	1	3.8	2.0	26	198		
Sub-total:						692	Winter
Cheoah Total:						6,102	All Seasons
Cheoah - Hol/Peak Weekend Ave.	8	3.8	2.0	9	547		
Total:						547	Hol./Peak
Calderwood - Spring weekdays	1	3.8	2.0	64	486		
Calderwood - Spring weekends	14	3.8	2.0	25	2,660		
Calderwood - Spring weekends MCs	16	1.4	2.0	25	1,120		
Calderwood - Spring Peak weekend	12	3.8	2.0	3	274		
Sub-total:						4,540	Spring
Calderwood - Summer weekdays	2	3.8	2.0	64	973		
Calderwood - Summer weekends	19	3.8	2.0	23	3,321		
Calderwood - Summer Peak weekend	14	3.8	2.0	5	532		
Sub-total:						4,826	Summer
Calderwood - Fall weekdays	6	3.8	2.0	64	2,918		
Calderwood - Fall weekdays MCs	3	1.4	2.0	64	538		
Calderwood - Fall weekends	21	3.8	2.0	26	4,150		
Calderwood - Fall Peak weekend	14	3.8	2.0	1	106		
Sub-total:						7,712	Fall
Calderwood - Winter weekdays	7	3.8	2.0	65	3,458		

	Total Vehicles per Spot Count	Party Size	Turnover Rate	No. of Days	Visitor Recreation Days	Development Recreation Day Totals	
Calderwood - Winter weekends	4	3.8	2.0	26	790		
Sub-total:						4,248	Winter
Calderwood Total:						21,326	All Seasons
Calderwood - Hol/Peak Weekend Ave.	13	3.8	2.0	9	889		
Total:						889	Hol./Peak
Chilhowee - Spring weekdays	9	3.8	2.0	64	4,378		
Chilhowee - Spring weekdays MCs	3	1.4	2.0	64	538		
Chilhowee - Spring weekends	23	3.8	2.0	25	4,370		
Chilhowee - Spring weekends MCs	26	1.4	2.0	25	1,820		
Chilhowee - Spring Peak weekend	72	3.8	2.0	3	1,642		
Chilhowee - Spring Peak weekend MCs	44	1.4	2.0	3	370		
Sub-total:						13,116	Spring
Chilhowee - Summer weekdays	27	3.8	2.0	64	13,133		
Chilhowee - Summer weekdays MCs	17	1.4	2.0	64	3,046		
Chilhowee - Summer weekends	71	3.8	2.0	23	12,411		
Chilhowee - Summer weekends MCs	45	1.4	2.0	23	2,898		
Chilhowee - Summer Peak weekend	110	3.8	2.0	5	4,180		
Chilhowee - Summer Peak wkend MCs	45	1.4	2.0	5	630		
Sub-total:						36,298	Summer
Chilhowee - Fall weekdays	23	3.8	2.0	64	11,187		
Chilhowee - Fall weekdays MCs	6	1.4	2.0	64	1,075		
Chilhowee - Fall weekends	53	3.8	2.0	26	10,473		
Chilhowee - Fall weekends MCs	40	1.4	2.0	26	2,912		
Chilhowee - Fall Peak weekend	110	3.8	2.0	1	836		
Chilhowee - Fall Peak weekend MCs	45	1.4	2.0	1	126		
Sub-total:						26,609	Fall
Chilhowee - Winter weekdays	3	3.8	2.0	65	1,482		

	Total Vehicles per Spot Count	Party Size	Turnover Rate	No. of Days	Visitor Recreation Days	Development Recreation Day Totals	
Chilhowee - Winter weekends	18	3.8	2.0	26	3,557		
Sub-total:						5,039	Winter
Chilhowee Total:						81,062	All Seasons
Chilhowee - Hol/Peak Weekend Ave.	91	3.8	2.0	9	6,224		
Chilhowee - Hol/Peak Wkend Ave. MCs	44	1.4	2.0	9	1,109		
Total:						7,333	Hol./Peak
	Annual Total Daytime	Multiplier for Nighttime	Annual Total Nighttime		Peak Weekend Ave. Daytime	Multiplier for Nighttime	Peak Weekend Ave. Nighttime
Santeetlah:	54,738	0.219	11,988		6,156	0.219	1,348
Cheoah:	6,102	0.000	0		547	0.000	0
Calderwood:	21,326	0.183	3,903		889	0.183	163
Chilhowee:	81,062	0.454	,36,802		7,333	0.454	3,329
Tapoco Project Visitor Recreation Day Totals:	163,228		52,693		14,926		4,840
Note: Nighttime = % of annual total & peak weekend daytime by development derived from 2003 Form 80 ratio nighttime to daytime values:							
Santeetlah = 21.9%							
Cheoah = 0.0%							
Calderwood = 18.3%							
Chilhowee = 45.4%							
Data derived from the average.							
Used Summer Peak Weekend spot count for July 4th holiday & Labor Day holiday weekends = 5 days in summer, 1 day in fall. Separate vehicles from motorcycles (MCs).							
MCs = motorcycle party size 1.4 persons.							

Attachment F

The completed Form 80 reports for each of the Tapoco Project developments are attached.