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HARTSVILLE NUCLEAR PLANTS

SOCIOECONOMIC MONITORING AND MITIGATION REPORT

HNP - SMR-7

September 30, 1979

Knoxville, Tennessee

May 1980

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BACKGROUND AND HIGHLIGHTS

For permits to construct the four-unit Hartsville Nuclear Plants located in Smith and Trousdale Counties, Tennessee, TVA agreed to certain monitoring and mitigation actions to reduce the socioeconomic impact in the area expected to accommodate movers. The impact area is defined as Trousdale, Smith, Macon, Sumner, and Wilson Counties, Tennessee. TVA also agreed to report to the Nuclear Regulatory Commission the results of the monitoring efforts and mitigation actions taken to accommodate the impacts.

This is the seventh in a series of semiannual reports which will be submitted during construction of the Hartsville project, including three reporting periods following issuance of the operating license for the last unit. This report is for the period April 1, 1979, through September 30, 1979.

Peak employment this period occurred during the week of May 4, 1980, when total employment reached 6,996. The employment level on September 30, 1979, was 6,340. The mover rate was 31 percent for a total of 1,950 movers. Projections contained in the environmental impact statement (EIS) stopped at 5,000 employees, but the mover rate is much lower than would be expected for a workforce of over 6,300 employees. Thirty-seven percent of the workforce was hired from the impact counties. The two impact counties that gained movers this period were Smith and Macon Counties. Other Counties contain fewer movers than at the end of the last reporting period.

TVA's major mitigation expenditures this period were for employee transportation (\$560,000) and education (\$84,000 - \$28,000 of which was erroneously reported in the last report). TVA's total Hartsville mitigation payments at the end of March were \$5,645,063.

HARTSVILLE NUCLEAR PLANTS

SOCIOECONOMIC MONITORING AND MITIGATION REPORT

I. General Status of Employment as of September 30, 1979

A survey of all TVA employees as of September 30, 1979, was conducted during November of 1979. The timelag between employment and survey enables employees who moved to make personal adjustments and should provide a better picture of employee distribution, family characteristics, and housing choice. The employment level was 6,340¹; and 6,104 (96 percent) employees were surveyed. Of those surveyed, 1,877 employees said they had moved for a mover rate of about 31 percent (table A-1). Information on the family status and housing choice was obtained for those who moved (table A-5).

The data on movers have been extrapolated on a ratio basis to the total 6,340 employees, which results in an estimated total number of movers of 1,950. Of the total, 1,518 movers located in the five impact counties; and 432 moved to other counties. As shown in table A-1 and figure 1, local workers (nonmovers) are commuting to the project from a much more widespread area.

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1. An interim peak employment occurred this period during the week of May 4, 1980, when total employment reached 6,996. Employment is expected to drop further, stabilize, and then increase again to a level higher than 7,000.

Information on the distribution of both movers and residents is found in tables A-1, A-2, and figure 1. Additional information on the distribution and characteristics of movers is continued in tables A-3 through A-18.

Table A-1 lists the town of current residence. This table is based on "mailing address" locations instead of jurisdictional locations. All employees are asked to provide a place name even though they may not live within any municipal limits. Figure 1 is based on this table. Table A-3 provides a mover's distribution which is based on city limits for the seven communities to which at least 50 employees moved.

Table A-2 shows both the origin and location of all employees. The diagonal line of the "From-To" tabulation shows resident employees (nonmovers). For example, resident employees from Sumner County would be found by locating Sumner County in the "From" column and going across the table to the "To" column which also reads Sumner County. In this survey, 871 residents of Sumner County were employed at the end of September 1979. Movers are shown by any other data in this table. For example, 174 employees moved from Other Tennessee Counties to Sumner County.

Table A-4 of this report series contains a comparison of the survey results with the projections contained in the environmental impact statement (EIS). However, the projections stopped at 5,000 which was near the then projected peak of 5,300. Since this

survey covers approximately 6,300 employees, an estimate of 66 percent was used based on an earlier analysis used in the two previous reports. This was then used in table A-4 for comparison purposes. The mover rate during this period was 31 percent instead of the projected 66 percent. Sumner County is still receiving the largest share of movers (28 percent) compared with the projected 20 percent. Macon County is receiving the smallest number of movers at 8 percent which is close to the projected 10 percent. The mover distribution to Smith County is low at 12 percent compared with a projected 20 percent. The mover rate to Trousdale County has dropped since the last reporting period from 17 percent to 16 percent. The projected mover rate to Trousdale County was 30 percent. The mover distribution to Wilson County remained at 14 percent compared with the projected 20 percent. Sumner County now has 554 movers compared with 837 that were projected for approximately 6,300 employment level, but all other counties contain far fewer movers than expected. Mover projections were made only for the five impact counties, but 432 employees moved to other counties. Davidson County has received 129 movers. However, 179 employees said they moved from Davidson County; and 138 of the 179 said they moved to impact counties.

II. General Characteristics of Movers

Total Project--Table A-5 contains data on family status and characteristics and housing choice for all movers. Table A-4 contains a comparison of the extrapolation of some of these results with projections. As of September 30, 1979, 73 percent of

those employees who moved brought their families. The remaining 27 percent moved without their families. School-age children per family averaged 0.9 compared with the projected 1.0. The total average family size was 3.3 compared with the projected 3.0. The survey of housing choice shows 51 percent are living in houses, 24 percent in mobile homes, 15 percent in apartments, 4 percent in motel and sleeping rooms, and 6 percent in other accommodations. The "Other" category includes campers, motor homes, and vans.

Impact Counties and Communities--Data on family status and characteristics and housing choice for movers into each impact county are contained in tables A-6 through A-10 and for movers within the city limits of each of the impact communities in tables A-12 through A-16.

Other Counties and Communities--One part of the computer program which processes the survey data was designed to print out separate reports for counties and communities other than those identified in the impact analysis when a certain number of movers located there. The level chosen for communities was 50 and for counties 100. These were judged to be small enough to serve as an "early warning system" for those jurisdictions if the actual location pattern varied significantly from the projected location pattern. They include Davidson County (129 movers), Hendersonville (70 movers), and Nashville (66 movers) as shown in tables A-3 and A-4. The detailed survey results are found in tables A-11, A-15, and A-18.

III. Secondary Employment

Secondary employment impact is defined as a temporary increase in the trade and service-related resident population which can be attributed to the Hartsville project. If the population increase in a county is greater than that arising directly from the project or from other primary employment increases, the possibility of secondary employment exists.

Again during this period only Macon County had an increase in population (298) which was more than could be explained by project-related influx and change in population associated with other primary employment (see table 1). In fact, Sumner, Trousdale, and Wilson Counties experienced declines in project-related population. During this reporting period (March 31, 1979 - September 30, 1979), Macon County experienced a decrease in nonproject-related primary and total employment.

Table 2 shows the application of our monitoring process applied to the period from April 30, 1976, to September 30, 1979. The results of the analysis show that the only county in which population change cannot be totally explained is Macon County. During this three-year period, the population of Macon County increased almost 2,200 persons while employment of Macon County residents declined. This decline in employment was felt both in primary and secondary sectors. The methodology which we are using in monitoring the Hartsville project provides reasonable results only when the change in the resident population and the change in resident

Table 1

ESTIMATES OF POPULATION AND POPULATION CHANGEFOR MACON, SMITH, SUMNER, TROUSDALE, AND WILSON COUNTIES, TENNESSEEFOR MONITORING SECONDARY SOCIOECONOMIC IMPACTS OF HARTSVILLE NUCLEAR PLANT CONSTRUCTIONMARCH 31, 1979 - SEPTEMBER 30, 1979

	<u>Population Estimate 3/31/79</u>	<u>Population Estimate 9/30/79</u>	<u>Change in Population Estimate 3/31/79 - 9/30/79</u>	<u>Change in Project Related Population 3/31/79 - 9/30/79</u>	<u>Remainder of Nonproject Related Population as of 9/30/79</u>	<u>Change in Population Possible From Other Primary Employment</u>	<u>Change in Population Unexplained</u>
Macon County	15,418	15,793	375	77	298	0	298
Smith County	13,856	13,858	- 2	96	-	-	-
Sumner County	79,576	80,488	912	-9	-	-	-
Trousdale County	5,302	5,364	62	-40	-	-	-
Wilson County	50,512	50,146	-366	-3	-	-	-

*TVA Employee Surveys.

Population estimates by Community Economics Projects Group.

Community Economics Projects Group
4/24/80

Table 2

ESTIMATES OF POPULATION AND POPULATION CHANGE
FOR MACON, SMITH, SUMNER, TROUSDALE, AND WILSON COUNTIES, TENNESSEE
FOR MONITORING SECONDARY SOCIOECONOMIC IMPACTS OF HARTSVILLE NUCLEAR PLANT CONSTRUCTION
APRIL 30, 1976 - SEPTEMBER 30, 1979

	Population Estimate <u>4/30/76</u>	Population Estimate <u>9/30/79</u>	Change in Population Estimate <u>4/30/76 - 9/30/79</u>	Change in Project* Related Population <u>4/30/76 - 9/30/79</u>	Remainder of Nonproject Related Population as of <u>9/30/79</u>	Change in Population Possible From Other Primary Employment	Change in Population Unexplained
Macon County	13,602	15,793	2,191	479	1,712	0	1,712
Smith County	12,643	13,858	1,215	562	653	4,331	-
Sumner County	69,544	80,488	10,944	1,596	9,348	33,174	-
Trousdale County	5,232	5,364	132	718	0	-	-
Wilson County	45,709	50,146	4,437	761	3,676	20,196	-

*TVA Employee Surveys.

Population estimates by Community Economics Projects Group.

Community Economics Projects Group
4/24/80

employment are directly related. This opposite relationship observed in Macon County defies explanation.

IV. Functional Area Impacts and Mitigation Actions

Education--Monitoring direct impact on education continued to occur primarily through reports from the seven school districts and the Tennessee Department of Education. School districts and the department submit reports in October and May of each school year showing the names of students whose parents are employed at the Hartsville Nuclear Plants, the school previously attended, school and grade in which enrolled, and essential attendance and transportation information. A summary of school districts reports for fall 1979 is shown in table 3. All school districts reported fewer direct impact student enrollment than anticipated. Also, there is a large difference between the number of children reported by the school systems and the number of school-age children reported by employees. Meetings are being scheduled with the school systems to attempt to resolve this disparity.

TVA, the Tennessee Department of Education, and the seven local school districts in the impact area continue to operate under agreements for alleviating impacts on local school districts. Under these agreements, TVA provides funds for classrooms and schoolbuses. Education mitigation projects this period totaled eighty-four thousand dollars (\$84,000) as shown in table 4.

TABLE 3

School Systems Report of Hartsville Nuclear Plants
Direct Impact Students
September 30, 1979

<u>School System</u>	<u>Number of Children of Local Residents</u>	<u>Number of Children "Movers"</u>	<u>Total</u>
Smith	289	61	350
Sumner	502	274	776
Trousdale	230	79	309
Wilson	208	30	238
Macon	221	120	341
Lebanon	124	13	137
Watertown	<u>12</u>	<u>4</u>	<u>16</u>
TOTAL	1,586	581	2,167

TABLE 4

TVA Education Mitigation Payments
(April 1, 1979 - September 30, 1979)

<u>School System</u>	<u>Facilities</u>	<u>Buses</u>	<u>Totals</u>
Macon County	\$28,000*	--	\$28,000
Smith County	--	--	--
Sumner County	56,000**	--	56,000
Trousdale County	--	--	--
Wilson County	--	--	--
Lebanon City	--	--	--
Watertown City	<u>--</u>	<u>--</u>	<u>--</u>
TOTAL	\$84,000	(0)	\$84,000

*Note: (Reserved Fund)--entered as paid in March 31, 1979, report in error.

**Reserve Fund.

NOTE: Public Law 81-874 assistance is available to the school systems to offset additional operating cost.

Through a local referendum, on June 30, 1980, the Watertown Sixteenth Special District School System will cease to exist and will become a part of the Wilson County School System. As Watertown will become a part of the county, a request has been made by Wilson County that the funds allocated by TVA for the Watertown Special School District be reallocated and made available to the Wilson County School System. Steps are being taken to implement this reallocation plan.

All school systems in the Hartsville Nuclear Plants project are eligible to participate in School Assistance in Federally Affected Areas, Title I, Public Law 81-874 programs for fiscal year 1979. Wilson County became eligible for the first time in fiscal year 1979; Macon County in fiscal year 1977; Trousdale County in fiscal year 1976; Smith County, Sumner County, and Lebanon City were eligible and participated prior to fiscal year 1975. Since fiscal year 1976, all school systems in the area have experienced significant increases in the number of students claimed. The number of students claimed by the four participating school systems in fiscal year 1976 was 983. In fiscal year 1977, 1,573 students were claimed by the five participating school systems. In fiscal year 1978, the six participating school systems claimed 2,467. In fiscal year 1979, the six participating school systems claimed 3,026; and the number of students reported at this time is 3,200. Even though there is an increase of 174 students for fiscal year 1980 over 1979, there is an apparent leveling off of TVA-related students.

According to the school systems in the impact counties and the Tennessee Department of Education, TVA is meeting its commitments; and the school systems are able to serve the direct impact students.

Housing--The objective of the Hartsville Nuclear Plants housing mitigation program has been to assist in the development of mobile home parks in Macon and Trousdale Counties as a base for temporary housing demanded by TVA construction workers. One hundred sixty-nine (169) mobile home spaces have been developed through this program. The Shady Grove Mobile Home Park in Hartsville, Tennessee, has 93 spaces. All units are presently occupied. The Hillsdale Mobile Home Park, located approximately seven miles from the construction site, has 47 of their 76 units presently occupied. The Upper Cumberland Housing Development Corporation, is in the process of redeveloping the Hillsdale Mobile Home Park to create additional requested spaces.

Local Planning and Coordination Assistance--TVA is continuing to assist the local planning commissions affected by this project. Letters of agreement covering half of their cost for Tennessee State Planning Office services for a period from October 1 each year through September 30 of the following calendar year has been executed for the major impact communities. The need for additional assistance to the local planning commissions is evaluated and negotiated on a year-to-year basis as appropriate. A summary of these payments are shown on table 5.

TABLE 5

TVA Local Planning Assistance Payments

<u>Planning Commission</u>	<u>Amount Paid This Period</u>	<u>Total Paid to Date</u>
Hartsville-Trousdale County		\$ 3,307.90
Smith County		4,625.75
Sumner County		3,750.00
Wilson County		3,750.00
Carthage	\$ 850.00	3,252.38
South Carthage	850.00	1,819.88
Gordonsville	--	475.63
Lafayette	--	1,221.26
Gallatin	743.75	6,256.25
Lebanon	--	6,725.00
Hendersonville	2,231.25	5,981.25
Tennessee State Planning Office	--	20,000.00
TOTAL	\$4,675.00	\$61,165.30

TVA continues to provide annual support for the Hartsville Project Coordination Committee for professional staff services. The committee is composed of the chief elected officials in the five-county impact area (five county judges and the mayors of the incorporated towns within the five counties). To date, \$200,000 has been provided to the committee with funding at \$12,500 per quarter.

Water and Sewer--The water and sewer systems in the impact counties continue to be monitored periodically to determine if these systems are adequate to handle the anticipated mobile home connections. However, the total number of actual movers continues to be smaller than originally projected and a large number of movers continue to locate outside the impact area. Therefore, the water supply treatment capacities throughout the impact area are more than adequate to accommodate the inmoving customers. Similarly, the sewer systems, some of which may be overloaded during periods of heavy rainfall, are able to treat the wastes generated by the inmoving construction workers and their families in addition to that of the permanent residents.

TVA has assisted and is continuing to assist those communities that have experienced significant temporary adverse water and sewer impacts from inmoving mobile homes of construction workers. The town of Carthage continues to use money from the \$75,000 mitigation payment TVA made to them to improve their water treatment facilities. This period the expenditure was for repairing leaks and replacing defective water mains. In addition to expenditures previously reported, the town has recently spent \$500 for legal services in connection with their water treatment plant.

The installation of the new eight-inch waterline in Hartsville between the junction of East Main Street and McMurray Boulevard and extending westward along McMurray Boulevard to the pumping station east of Goose Creek has been completed. This line should

relieve low pressures which occasionally occur in the Shady Grove Mobile Home Park and the elementary school on Lock Six Road caused by the relatively high water demands at the nuclear plant construction site.

No impact mitigation payments for water and sewer were made during the reporting period. However, TVA will continue to monitor the water and sewer systems in the impact counties to determine their capability to handle any mover impacts as they occur.

Health and Medical Services--There were no health impact mitigation payments made during this monitoring period. TVA's contracts with Mid-Cumberland Regional Health Department, for partial support of an environmentalist, and the Upper Cumberland Regional Health Department, for partial support of a public health nurse, expired without renewal prior to April 1, 1979. Therefore, there are no active health impact mitigation contracts at this time.

TVA will continue to assess the health needs of the five-county Hartsville area; however, it is not anticipated that significant additional expenditures will be required.

Traffic--In accordance with an agreement between TVA and the Tennessee Department of Transportation, the department has been supplying TVA with traffic counts for 12 locations on a quarterly basis beginning in October 1975. With approximately 6,300 employees, peak-hour traffic on Highway 25 has increased from 120 vehicles

per hour (VPH) to 510 VPH east of the site and from 120 VPH to 1,040 VPH west of the site. Counts for other key highway segments are shown in the following table. Peak-hour volumes at all these locations are within the limits of acceptable volumes for level of service D operation of these highways (see appendix C). In an effort to mitigate the peak-hour traffic volumes, TVA is continuing the mass transportation program (Commuter vans and buses).

TABLE 6

Traffic Evaluation

(October 1975 - September 1979)

	Number of Vehicles During Peak Hour*		TVA Commuter Traffic
	1975	1979	
Highway 25 East of Plant	120	510	400
Highway 25 West of Plant	120	1,040	930
Highway 25 West of Hartsville	290	750	600
Highway 25 West of 231 Junction	210	520	280
Highway 231 South of 25 Junction	150	300	200
Highway 231 North of Lebanon	150	320	150

*The current peak hour occurs during the 3-4 p.m. hour.

Employee Transportation--Two new buses were added during this period for a total of 17. One bus serves the Murfreesboro community, the other serves the east Nashville area along Dickerson Road. In addition, bus service to and from Hartsville Nuclear Plants includes: Nashville seven buses; Lebanon and Gallatin

two buses each; and Portland, Hermitage, Mount Juliet, Murfreesboro, Lafayette, and Manchester one bus each. The number of van pools dropped to 148 from an earlier high of 155. Ridership remained steady with 47 percent of the employees on the day shift riding vans and buses to work. An estimated 950 cars are being kept off the road as a result of the TVA-sponsored van pools and buses. TVA's expenditures for employee transportation for this period was approximately \$560,000.

Local Government Budgets--The impact of the Hartsville construction project on the budgets of local governments in the impact area is measured on an annual basis. This measurement is made by comparing projected project-related expenses incurred by the local governments to projected project-related revenues received to determine whether deficits will occur. TVA negotiates and executes contracts with local governments to provide payments to cover the amounts of any projected deficits. Payments made to local governments during this period are as follows:

Trousdale County	\$12,100
Macon County	1,100
City of Gallatin	4,000
City of Hendersonville	2,200
Town of Carthage	<u>900</u>
Total	\$20,300

A monitoring and accountability plan is being used by TVA to help project any deficits that may occur in local governments' budgets. A study has been made to determine the increases in revenues and expenditures experienced by the local governments in the years before the Hartsville construction project started. These results are compared to the increases in revenues and expenditures experienced by the local governments after the Hartsville construction project started. The results of this comparison are used to help determine both the negative and positive impacts on the budgets of local governments in the impact area. The results of the study are used in negotiating mitigation payment contracts with local government officials in the Hartsville project impact area.

Local Recruitment and Training--The local recruitment and training initiatives are continuing to be successful in reducing overall socioeconomic impact within the five counties. The steamfitter training program graduated 20 trainees in July 1979, who have filled jobs at the Hartsville Nuclear Plants. The boilermaker training program graduated 23 trainees in May 1979. Eight of these graduates are working at the Hartsville Nuclear Plants. These two programs were developed to help meet the demand for highly skilled craftsmen in critical skill manpower shortage areas and to lessen TVA's construction mover impact. Trainees in these programs are from the 16-county recruitment area.

Recreation--Community recreation impacts were monitored by TVA staff, and technical assistance was provided to several communities for site design and recreation program development.

As a direct result of our efforts in Trousdale County, a full-time recreation and parks department has been formed. A contract was executed in September 1979 with the city of Hartsville and Trousdale County for \$15,520 to help implement the new department and employ a full-time director. Additional financial assistance is anticipated for Trousdale County for the development of needed park facilities.

Additional contracts are also anticipated for the city of Lebanon and the city of Gallatin to implement needed park improvement projects. This assistance should result in long-term benefits for the communities as well as alleviate temporary in-mover impacts.

Summary of Mitigation Expenditures--In the functional areas of mitigation, TVA has made payments totaling \$5,645,063 as noted in table 7, the major expenditures this reporting period were for employee transportation (\$560,000) and education (\$84,000 - see table 6).

TABLE 7
Summary of TVA Mitigation Expenditures
as of September 30, 1979

	<u>Expenditures This Period</u>	<u>Expenditures To Date</u>
Education	\$ 84,000 ¹	\$1,496,759
Housing	--	423,000 ²
Local Planning and Coordination Assistance	29,675	260,696
Water and Sewer	--	380,000 ³
Health	--	108,772
Local Governments	20,300	612,153
Employee Transportation	<u>560,000</u>	<u>2,363,683</u>
TOTAL	\$693,975	\$5,645,063

1. Includes \$28,000 previously reported in error.

2. Includes \$60,000 interest-bearing loan.

3. Includes \$125,000 noninterest-bearing loan.

APPENDIXES

TABLE A-1
 FOLLOW UP SURVEY
 TOWN OF CURRENT RESIDENCE
 HARTSVILLE NUCLEAR PLANT EMPLOYEES
 ACTIVE EMPLOYEES 09-30-79

RUN DATE 02/08/80
 RUN TIME 114251
 REPORT 2

TOWN		MOVED TO TOWN	ALREADY IN TOWN	TOTAL	POPULATION
ALEXANDRIA	TN	10	43	53	680
BAXTER	TN	11	62	73	1,314
CARTHAGE	TN	78	137	215	2,491
COOKEVILLE	TN	35	90	125	17,800
CROSSVILLE	TN	12	45	57	5,381
DOWELLTOWN	TN	5	25	30	329
GAINESBORO	TN	5	48	53	1,101
GALLATIN	TN	324	424	748	13,362
GORDONSVILLE	TN	9	42	51	601
HARTSVILLE	TN	300	238	538	2,243
HENDERSONVILLE	TN	78	161	239	28,000
LAFAYETTE	TN	138	219	357	2,583
LEBANON	TN	222	286	508	12,492
MCMINNVILLE	TN	5	9	14	11,610
MANCHESTER	TN	6	34	40	6,869
MURFREESBORO	TN	19	44	63	28,700
NASHVILLE	TN	74	533	607	469,000
PORTLAND	TN	15	62	77	3,081
RED BOILING SPRINGS	TN	12	69	81	956
SMITHVILLE	TN	12	129	141	3,762
SOUTH CARTHAGE	TN	13	31	44	859
SPARTA	TN	10	14	24	4,930
WESTMORELAND	TN	22	73	95	1,423
BETHPAGE	TN	22	57	79	400
CASTALIAN SPRINGS	TN	59	40	99	150
COTTONTOWN	TN	7	17	24	100
DIXON SPRINGS	TN	70	38	108	100
ELMWOOD	TN	5	15	20	100
GOODLETTSVILLE	TN	9	62	71	7,541
HERMITAGE	TN	9	30	39	6,000
LANCASTER	TN	6	9	15	150
MADISON	TN	17	113	130	21,500
MOUNT JULIET	TN	27	83	110	1,568
OLD HICKORY	TN	9	58	67	6,000
PLEASANT SHADE	TN	14	34	48	150
RIDDLETON	TN	10	21	31	100
SILVER POINT	TN	6	26	32	150
WATERTOWN	TN	6	36	42	1,061
WHITE HOUSE	TN	12	11	23	1,305
SCOTTSVILLE	KY	5	83	88	3,584
SUBTOTAL		1708	3551	5259	
ALGOOD	TN	2	6	8	1,917

TABLE A-1, PAGE 2

FOLLOW UP SURVEY
TOWN OF CURRENT RESIDENCE
HARTSVILLE NUCLEAR PLANT EMPLOYEES
ACTIVE EMPLOYEES 09-30-79

RUN DATE 02/01/80
RUN TIME 114251
REPORT 2

TOWN		MOVED TO TOWN	ALREADY IN TOWN	TOTAL	POPULATION
CELINA	TN	4	26	30	1,370
CHARLOTTE	TN	3	6	9	610
CLARKSVILLE	TN	3	7	10	44,900
DICKSON	TN	3	5	8	16,377
FAIRVIEW	TN	2	5	7	1,925
FRANKLIN	TN	0	8	8	11,298
GREEN BRIER	TN	2	30	32	2,279
LA VERGNE	TN	4	13	17	5,209
LIBERTY	TN	2	26	28	332
LIVINGSTON	TN	2	5	7	3,050
MONTEREY	TN	3	6	9	2,351
RIDGETOP	TN	1	7	8	810
SHELBYVILLE	TN	0	15	15	11,900
SMYRNA	TN	2	11	13	5,698
SPRINGFIELD	TN	2	33	35	9,720
TULLAHOMA	TN	3	7	10	15,577
WOODBURY	TN	3	15	18	2,087
ANTIOCH	TN	4	14	18	900
ASHLAND CITY	TN	4	11	15	2,027
AUBURN TOWN	TN	1	6	7	213
BRUSH CREEK	TN	3	22	25	230
BUFFALO VALLEY	TN	2	14	16	100
CHESTNUT HOLLOW	TN	0	10	10	125
CROSS PLAINS	TN	0	9	9	261
DONELSON	TN	0	12	12	25,500
GRANVILLE	TN	1	6	7	100
HICKMAN	TN	3	25	28	200
JOELTON	TN	1	24	25	900
MOSS	TN	2	11	13	200
WHITLEYVILLE	TN	1	7	8	50
BOWLING GREEN	KY	1	7	8	39,400
FRANKLIN	KY	2	10	12	7,176
GAMALIEL	KY	0	5	5	431
TOMPKINSVILLE	KY	4	17	21	2,207
ADOLPHUS	KY	1	13	14	250
FOUNTAIN RUN	KY	4	6	10	128
SUBTOTAL		75	460	535	
OTHER		94	216	310	
TOTAL RESPONSES		1877	4227	6104	
HMP WORKFORCE TOTAL 09-30-79				6340	

TABLE A-2

FOLLOW UP SURVEY
 SOURCE AND LOCATION OF CONSTRUCTION EMPLOYEES RUN DATE 02/27/80
 HARTSVILLE NUCLEAR PLANT RUN TIME 125033
 ACTIVE EMPLOYEES 09-30-79 REPORT 4

FROM --- TO	-----IMPACT COUNTIES-----						OTHER REC. COUNTIES	OTHER TENN. COUNTIES	OTHER KENTUCKY COUNTIES	OTHER (4)	TOTAL
TRUSDALE SMITH MACON SUMNER WILSON DAVIDSON											
TRUSDALE (1)	240	7	7	23	7	1	2				287
SMITH (1)	9	407	6	1	8	1	7	2	1		442
MACON (1)	4	5	301	4	6	2	1				323
SUMNER (1)	20	8	10	871	5	14	6	3	1		938
WILSON (1)	14	6		14	412	10	8	5			469
DAVIDSON (1)	18	22	3	63	32	859	21	20			1038
OTHER RECRUITING COUN (2)	16	27	16	18	12	10	303	13	3		1023
OTHER TN. COUNTIES (3)	115	70	40	174	94	37	48	305	2	10	896
OTHER KY. COUNTIES (3)	5	2	7	10	5		3		20		53
ALABAMA	27	17	6	63	28	9	6	3		11	170
ARKANSAS	2	1	2	4	1						10
GEORGIA	6	4	1	5	5	2	2	1		2	29
MISSISSIPPI	3		1	5	1	2	1	1			14
NORTH CAROLINA	2	1	2	5	5	1					16
SOUTH CAROLINA	1	2		2		1					6
OTHER STATES	57	29	45	108	45	30	25	23		28	390
*** TOTAL	539	508	447	1370	668	979	1233	382	27	51	6104

NOTE: DATA ON DIAGONAL INDICATE NONMOVERS, WITH THE EXCEPTION OF MOVES WITHIN A COUNTY.
 ALL OTHER DATA INDICATE MOVERS.

(1) RECRUITING COUNTY

(2) TENNESSEE COUNTIES: CANNON, CLAY, DEKALB, JACKSON, PUTNAM,
 ROBERTSON, RUTHERFORD

KENTUCKY COUNTIES: ALLEN, MONROE, SIMPSON

(3) ALL COUNTIES IN KENTUCKY AND TENNESSEE OTHER THAN RECRUITING COUNTIES

(4) "OTHER" INCLUDES NON-RESPONSES OR ERRONEOUS RESPONSES FOR CURRENT ADDRESS.

Table A-3

Hartsville Nuclear Plants
Distribution of Movers and Associated
Population by County and Community
September 30, 1979

<u>County</u>	<u>Percent of Movers</u>	<u>Number¹ of Movers</u>	<u>Population Influx¹</u>	
			<u>Schoolage</u>	<u>Total</u>
Trousdale	16	312	137	718
Smith	12	225	120	562
Macon	8	160	129	479
Sumner	28	554	395	1,596
Wilson	14	267	188	761
Other Counties	<u>22</u>	<u>432</u>	<u>248</u>	<u>1,109</u>
Total	100 ²	1,950	1,217	5,225
<u>Community³</u>				
Carthage	3	53	15	97
Gallatin	11	206	104	547
Hartsville	11	214	68	429
Hendersonville	4	70	52	188
Lafayette	3	66	70	211
Lebanon	5	88	37	208
Nashville	<u>3</u>	<u>66</u>	<u>24</u>	<u>138</u>
Total	40	763	370	1,818

1. Numbers extrapolated.

2. Percentages may not add to 100 because of rounding.

3. Within municipal limits.

Table A-4

Hartsville Nuclear Plants
Comparison of Survey Results with
Projections for Selected Parameters
Employment Level - 6,340

	<u>Projected</u>	<u>Surveyed</u> ¹
Number Movers	4,184	1,950
Percent Movers	66	31
Schoolage Children	2,720	1,217
Schoolage Children/Family	1.0	.9
Total Population	9,624	5,225

	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>
Movers with Families	65	2,720	73	1,428
Movers without Families	35	1,464	27	521

	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>
Housing Choice:				
Houses	31	1,297	51	999
Mobile Homes	47	1,967	24	465
Apartments	18	753	15	297
Motel and Sleeping Rooms	4	167	4	78
Other	<u>0</u>	<u>0</u>	<u>6</u>	<u>111</u>
Total	100	4,184	100 ²	1,950

	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>
Distribution by County:				
Davidson	0	0	7	129
Trousdale	30	1,255	16	312
Smith	20	837	12	225
Macon	10	413	8	160
Sumner	20	837	28	554
Wilson	20	837	14	267
Other Counties	<u>0</u>	<u>0</u>	<u>16</u>	<u>303</u>
Total	100	4,184	100 ²	1,950

1. Numbers extrapolated.

2. Percentages may not add to 100 because of rounding.

TABLE A-5
FOLLOW UP SURVEY
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA

MOVER SUMMARY
ACTIVE EMPLOYEES 09-30-79

RUN DATE 02/08/80
REPORT 1F
RUN TIME 114139

	MOVERS WITH FAMILY	WITH CHILDREN IN SCHOOL	TOTAL NUMBER OF CHILDREN	CHILDREN IN GRADE SCHOOL	CHILDREN IN HIGH SCHOOL	MOVERS WITHOUT FAMILY	TOTAL MOVERS
ANNUAL EMPLOYEES							
HOUSE OWNED	248	139	354	184	62	35	263
HOUSE RENTED	43	17	47	23	7	14	57
APARTMENT RENTED	37	9	18	10	4	54	91
MOBILE HOME RENTED	5	3	6	4	0	12	17
MOBILE HOME OWNED	31	10	22	10	2	15	46
SLEEPING ROOM	2	2	5	4	0	3	5
MOTEL	1	0	1	0	0	4	5
OTHER	10	1	2	1	0	4	14
TOTAL	377	181	455	236	74	121	498
HOURLY EMPLOYEES							
HOUSE OWNED	338	205	548	281	116	10	348
HOUSE RENTED	237	104	310	163	39	57	294
APARTMENT RENTED	99	27	91	30	9	96	195
MOBILE HOME RENTED	116	44	141	58	24	77	193
MOBILE HOME OWNED	145	58	174	78	26	46	191
SLEEPING ROOM	8	2	9	6	2	24	32
MOTEL	9	4	10	6	0	24	33
OTHER	46	16	52	18	6	47	93
TOTAL	998	460	1323	640	222	381	1379
ALL EMPLOYEES							
HOUSE OWNED	586	344	902	465	177	25	611
HOUSE RENTED	280	121	357	186	46	71	351
APARTMENT RENTED	136	36	99	40	13	150	286
MOBILE HOME RENTED	121	47	147	62	24	89	210
MOBILE HOME OWNED	176	60	196	88	28	61	237
SLEEPING ROOM	10	4	14	10	2	27	37
MOTEL	10	4	11	6	0	28	38
OTHER	56	17	52	19	6	51	107
TOTAL	1375	641	1778	876	296	502	1877

TABLE A-6
FOLLOW UP SURVEY
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA

MACON
EMPLOYEES LIVING WITHIN THE COUNTY TOTAL
ACTIVE EMPLOYEES 09-30-79
RUN DATE 02/08/80
REPORT 18
RUN TIME 174139

	MOVERS WITH FAMILY	WITH CHILDREN IN SCHOOL	TOTAL NUMBER OF CHILDREN	CHILDREN IN GRADE SCHOOL	CHILDREN IN HIGH SCHOOL	MOVERS WITHOUT FAMILY	TOTAL MOVERS
ANNUAL EMPLOYEES							
HOUSE OWNED	6	4	10	6	0	0	6
HOUSE RENTED	5	4	7	5	2	0	5
APARTMENT RENTED	2	0	2	0	0	0	2
MOBILE HOME RENTED	2	1	1	1	0	1	3
MOBILE HOME OWNED	1	0	0	0	0	2	3
SLEEPING ROOM							
MOTEL							
OTHER							
TOTAL	16	9	19	12	2	3	19
HOURLY EMPLOYEES							
HOUSE OWNED	47	27	77	48	14	0	47
HOUSE RENTED	14	7	23	12	2	0	14
APARTMENT RENTED	4	2	6	3	0	0	4
MOBILE HOME RENTED	26	11	34	14	7	10	36
MOBILE HOME OWNED	18	6	18	6	2	6	24
SLEEPING ROOM	0	0	0	0	0	2	2
MOTEL	0	0	0	0	0	1	1
OTHER	3	2	3	2	0	4	7
TOTAL	112	55	161	85	25	23	135
ALL EMPLOYEES							
HOUSE OWNED	53	31	87	54	14	0	53
HOUSE RENTED	19	11	30	17	4	0	19
APARTMENT RENTED	6	2	6	3	0	0	6
MOBILE HOME RENTED	28	12	35	15	7	11	39
MOBILE HOME OWNED	19	6	18	6	2	8	27
SLEEPING ROOM	0	0	0	0	0	2	2
MOTEL	0	0	0	0	0	1	1
OTHER	3	2	3	2	0	4	7
TOTAL	128	64	179	97	27	26	154

TABLE A-7
FOLLOW UP SURVEY
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA

SMITH
EMPLOYEES LIVING WITHIN THE COUNTY TOTAL
ACTIVE EMPLOYEES 09-30-79
RUN DATE 02/08/80
REPORT 18
RUN TIME 114139

	MOVERS WITH FAMILY	WITH CHILDREN IN SCHOOL	TOTAL NUMBER OF CHILDREN	CHILDREN IN GRADE SCHOOL	CHILDREN IN HIGH SCHOOL	MOVERS WITHOUT FAMILY	TOTAL MOVERS
ANNUAL EMPLOYEES							
HOUSE OWNED	8	6	17	12	4	1	9
HOUSE RENTED	3	1	2	0	1	3	6
APARTMENT RENTED	0	0	0	0	0	3	3
MOBILE HOME RENTED	1	1	2	2	0	6	7
MOBILE HOME OWNED	7	2	3	2	1	2	9
SLEEPING ROOM	0	0	0	0	0	1	1
MOTEL							
OTHER	1	0	0	0	0	0	1
TOTAL	20	10	24	16	6	16	36
HOURLY EMPLOYEES							
HOUSE OWNED	34	21	53	23	14	1	35
HOUSE RENTED	35	14	41	19	4	4	39
APARTMENT RENTED	2	0	2	0	0	6	8
MOBILE HOME RENTED	11	4	12	6	0	19	30
MOBILE HOME OWNED	39	14	38	17	6	12	51
SLEEPING ROOM	0	0	0	0	0	7	7
MOTEL	2	1	1	1	0	2	4
OTHER	5	2	5	3	1	2	7
TOTAL	128	56	152	69	25	53	181
ALL EMPLOYEES							
HOUSE OWNED	42	27	70	35	18	2	44
HOUSE RENTED	38	15	43	19	5	7	45
APARTMENT RENTED	2	0	2	0	0	9	11
MOBILE HOME RENTED	12	5	14	8	0	25	37
MOBILE HOME OWNED	46	16	41	19	7	14	60
SLEEPING ROOM	0	0	0	0	0	8	8
MOTEL	2	1	1	1	0	2	4
OTHER	6	2	5	3	1	2	8
TOTAL	148	66	175	85	31	69	217

TABLE A-8
FOLLOW UP SURVEY
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA

SUMMER
EMPLOYEES LIVING WITHIN THE COUNTY TOTAL
ACTIVE EMPLOYEES 09-30-79
RUN DATE 02/08/80
REPORT 18
RUN TIME 114139

	MOVERS WITH FAMILY	WITH CHILDREN IN SCHOOL	TOTAL NUMBER OF CHILDREN	CHILDREN IN GRADE SCHOOL	CHILDREN IN HIGH SCHOOL	MOVERS WITHOUT FAMILY	TOTAL MOVERS
ANNUAL EMPLOYEES							
HOUSE OWNED	154	84	219	109	42	9	163
HOUSE RENTED	14	7	14	7	4	4	18
APARTMENT RENTED	18	5	12	5	3	23	41
MOBILE HOME RENTED	2	1	3	1	0	0	2
MOBILE HOME OWNED	8	2	7	2	0	3	11
SLEEPING ROOM	1	1	3	2	0	1	2
MOTEL	1	0	1	0	0	1	2
OTHER	2	0	0	0	0	0	2
TOTAL	200	100	259	126	49	41	241
HOURLY EMPLOYEES							
HOUSE OWNED	94	62	162	89	26	5	99
HOUSE RENTED	57	24	77	39	7	11	68
APARTMENT RENTED	31	11	34	14	3	19	50
MOBILE HOME RENTED	10	5	10	7	0	13	23
MOBILE HOME OWNED	23	10	30	16	4	6	29
SLEEPING ROOM	1	0	0	0	0	4	5
MOTEL	4	0	4	0	0	2	6
OTHER	4	1	4	0	1	8	12
TOTAL	224	113	321	165	41	68	292
ALL EMPLOYEES							
HOUSE OWNED	248	146	381	198	68	14	262
HOUSE RENTED	71	31	91	46	11	15	86
APARTMENT RENTED	49	16	46	19	6	42	91
MOBILE HOME RENTED	12	6	13	8	0	13	25
MOBILE HOME OWNED	31	12	37	18	4	9	40
SLEEPING ROOM	2	1	3	2	0	5	7
MOTEL	5	0	5	0	0	3	8
OTHER	6	1	4	0	1	8	14
TOTAL	424	213	583	291	90	109	533

TABLE A-9
FOLLOW UP SURVEY
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA

TROUSDALE
EMPLOYEES LIVING WITHIN THE COUNTY TOTAL
ACTIVE EMPLOYEES 09-30-79
RUN DATE 02/08/80
REPORT 18
RUN TIME 114139

	MOVERS WITH FAMILY	WITH CHILDREN IN SCHOOL	TOTAL NUMBER OF CHILDREN	CHILDREN IN GRADE SCHOOL	CHILDREN IN HIGH SCHOOL	MOVERS WITHOUT FAMILY	TOTAL MOVERS
ANNUAL EMPLOYEES							
HOUSE OWNED	7	4	11	4	1	1	8
HOUSE RENTED	5	2	3	5	0	2	7
APARTMENT RENTED	6	1	1	1	1	8	14
MOBILE HOME RENTED	0	0	0	0	0	4	4
MOBILE HOME OWNED	11	5	9	5	1	6	17
SLEEPING ROOM	0	0	0	0	0	1	1
MOTEL	0	0	0	0	0	1	1
OTHER	1	0	0	0	0	0	1
TOTAL	30	12	29	15	3	23	53
HOURLY EMPLOYEES							
HOUSE OWNED	18	5	19	8	2	0	18
HOUSE RENTED	28	17	41	19	11	7	35
APARTMENT RENTED	17	3	7	2	1	26	43
MOBILE HOME RENTED	46	15	54	19	13	25	71
MOBILE HOME OWNED	35	21	52	24	11	14	49
SLEEPING ROOM	1	0	0	0	0	9	10
MOTEL	1	1	2	2	0	9	10
OTHER	4	2	7	2	0	7	11
TOTAL	150	64	182	76	38	97	247
ALL EMPLOYEES							
HOUSE OWNED	25	9	33	12	3	1	26
HOUSE RENTED	33	19	49	24	11	9	42
APARTMENT RENTED	23	4	8	3	2	34	57
MOBILE HOME RENTED	46	15	54	19	13	29	75
MOBILE HOME OWNED	46	26	51	29	12	20	66
SLEEPING ROOM	1	0	0	0	0	10	11
MOTEL	1	1	2	2	0	10	11
OTHER	5	2	7	2	0	7	12
TOTAL	180	76	211	91	41	120	300

TABLE A-10
FOLLOW UP SURVEY
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA

WILSON
EMPLOYEES LIVING WITHIN THE COUNTY TOTAL
ACTIVE EMPLOYEES 09-30-79

RUN DATE 02/08/80
REPORT 18
RUN TIME 114139

	MOVERS WITH FAMILY	WITH CHILDREN IN SCHOOL	TOTAL NUMBER OF CHILDREN	CHILDREN IN GRADE SCHOOL	CHILDREN IN HIGH SCHOOL	MOVERS WITHOUT FAMILY	TOTAL MOVERS
ANNUAL EMPLOYEES							
HOUSE OWNED	63	35	84	46	10	2	65
HOUSE RENTED	8	2	5	5	0	4	12
APARTMENT RENTED	5	2	3	2	0	8	13
MOBILE HOME RENTED							
MOBILE HOME OWNED	3	1	3	1	0	2	5
SLEEPING ROOM	1	1	2	2	0	0	1
MOTEL	0	0	0	0	0	1	1
OTHER	4	1	2	1	0	0	4
TOTAL	84	42	100	57	10	17	101
HOURLY EMPLOYEES							
HOUSE OWNED	40	25	63	28	20	0	40
HOUSE RENTED	29	17	44	26	8	9	38
APARTMENT RENTED	24	7	21	7	2	11	35
MOBILE HOME RENTED	6	4	3	5	1	4	10
MOBILE HOME OWNED	11	3	18	6	2	5	16
SLEEPING ROOM	2	1	5	3	2	0	2
MOTEL	1	1	1	1	0	4	5
OTHER	7	1	12	1	2	3	10
TOTAL	120	59	172	77	37	36	156
ALL EMPLOYEES							
HOUSE OWNED	103	60	147	74	30	2	105
HOUSE RENTED	37	19	50	31	8	13	50
APARTMENT RENTED	29	9	24	9	2	19	48
MOBILE HOME RENTED	6	4	5	5	1	4	10
MOBILE HOME OWNED	14	4	21	7	2	7	21
SLEEPING ROOM	3	2	7	5	2	0	3
MOTEL	1	1	1	1	0	5	6
OTHER	11	2	14	2	2	3	14
TOTAL	204	101	272	134	47	53	257

TABLE A-11
FOLLOW UP SURVEY
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA

DAVIDSON
EMPLOYEES LIVING WITHIN THE COUNTY - TOTAL REPORT 1F
ACTIVE EMPLOYEES 09-30-79 RUN TIME 114139

	MOVERS WITH FAMILY	WITH CHILDREN IN SCHOOL	TOTAL NUMBER OF CHILDREN	CHILDREN IN GRADE SCHOOL	CHILDREN IN HIGH SCHOOL	MOVERS WITHOUT FAMILY	TOTAL MOVERS
ANNUAL EMPLOYEES							
HOUSE OWNED	2	0	1	0	0	1	3
HOUSE RENTED	2	1	4	1	0	1	3
APARTMENT RENTED	2	0	0	0	0	8	10
MOBILE HOME RENTED							
MOBILE HOME OWNED							
SLEEPING ROOM							
MOTEL							
OTHER	1	0	0	0	0	2	3
TOTAL	7	1	5	1	0	12	19
HOURLY EMPLOYEES							
HOUSE OWNED	21	13	27	13	8	1	22
HOUSE RENTED	21	8	16	12	1	6	27
APARTMENT RENTED	14	3	8	4	0	19	33
MOBILE HOME RENTED	9	3	11	5	1	0	9
MOBILE HOME OWNED	1	1	1	1	0	1	2
SLEEPING ROOM	1	1	3	3	0	0	1
MOTEL	1	1	2	2	0	1	2
OTHER	5	1	2	1	0	4	9
TOTAL	73	31	73	41	10	32	105
ALL EMPLOYEES							
HOUSE OWNED	23	13	28	13	8	2	25
HOUSE RENTED	23	9	23	13	1	7	30
APARTMENT RENTED	16	3	8	4	0	27	43
MOBILE HOME RENTED	9	3	11	5	1	0	9
MOBILE HOME OWNED	1	1	1	1	0	1	2
SLEEPING ROOM	1	1	3	3	0	0	1
MOTEL	1	1	2	2	0	1	2
OTHER	6	1	2	1	0	6	12
TOTAL	80	32	75	42	10	44	124

TABLE A-12
FOLLOW UP SURVEY
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA

CARTHAGE
EMPLOYEES LIVING WITHIN THE CITY LIMITS
ACTIVE EMPLOYEES 09-30-79

RUN DATE 02/08/80
REPORT 1A
RUN TIME 114139

	MOVERS WITH FAMILY	WITH CHILDREN IN SCHOOL	TOTAL NUMBER OF CHILDREN	CHILDREN IN GRADE SCHOOL	CHILDREN IN HIGH SCHOOL	MOVERS WITHOUT FAMILY	TOTAL MOVERS
ANNUAL EMPLOYEES							
HOUSE OWNED	0	0	0	0	0	1	1
HOUSE RENTED	1	1	2	0	1	3	4
APARTMENT RENTED	0	0	0	0	0	3	3
MOBILE HOME RENTED							
MOBILE HOME OWNED							
SLEEPING ROOM	0	0	0	0	0	1	1
MOTEL							
OTHER							
TOTAL	1	1	2	0	1	8	9
HOURLY EMPLOYEES							
HOUSE OWNED	4	2	4	3	1	0	4
HOUSE RENTED	5	3	7	4	0	1	6
APARTMENT RENTED	1	0	0	0	0	3	4
MOBILE HOME RENTED	2	0	2	0	0	5	7
MOBILE HOME OWNED	7	2	4	2	0	6	13
SLEEPING ROOM	0	0	0	0	0	4	4
MOTEL	2	1	1	1	0	2	4
OTHER							
TOTAL	21	8	18	12	1	21	42
ALL EMPLOYEES							
HOUSE OWNED	4	2	4	3	1	1	5
HOUSE RENTED	6	4	9	4	1	4	10
APARTMENT RENTED	1	0	0	0	0	6	7
MOBILE HOME RENTED	2	0	2	0	0	5	7
MOBILE HOME OWNED	7	2	4	2	0	6	13
SLEEPING ROOM	0	0	0	0	0	5	5
MOTEL	2	1	1	1	0	2	4
OTHER							
TOTAL	22	9	20	12	2	29	51

TABLE A-13
FOLLOW UP SURVEY
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA

GALLATIN
EMPLOYEES LIVING WITHIN THE CITY LIMITS
ACTIVE EMPLOYEES 09-30-79
RUN DATE 02/08/80
REPORT 1A
RUN TIME 114139

	MOVERS WITH FAMILY	WITH CHILDREN IN SCHOOL	TOTAL NUMBER OF CHILDREN	CHILDREN IN GRADE SCHOOL	CHILDREN IN HIGH SCHOOL	MOVERS WITHOUT FAMILY	TOTAL MOVERS
ANNUAL EMPLOYEES							
HOUSE OWNED	45	18	51	21	5	6	51
HOUSE RENTED	6	4	7	3	2	1	7
APARTMENT RENTED	11	3	7	2	2	3	19
MOBILE HOME RENTED	1	0	2	0	0	0	1
MOBILE HOME OWNED	5	0	2	0	0	2	7
SLEEPING ROOM	0	0	0	0	0	1	1
MOTEL	0	0	0	0	0	1	1
OTHER							
TOTAL	68	25	69	26	10	19	87
HOURLY EMPLOYEES							
HOUSE OWNED	30	21	53	26	12	2	32
HOUSE RENTED	23	9	26	9	2	2	25
APARTMENT RENTED	16	6	19	8	1	9	25
MOBILE HOME RENTED	3	1	2	1	0	7	10
MOBILE HOME OWNED	6	2	8	3	2	1	7
SLEEPING ROOM	1	0	0	0	0	3	4
MOTEL	2	0	0	0	0	1	3
OTHER	2	0	1	0	0	3	5
TOTAL	83	39	109	47	17	28	111
ALL EMPLOYEES							
HOUSE OWNED	75	39	104	47	18	8	83
HOUSE RENTED	29	13	33	12	4	3	32
APARTMENT RENTED	27	9	26	10	3	17	44
MOBILE HOME RENTED	4	1	4	1	0	7	11
MOBILE HOME OWNED	11	2	10	3	2	3	14
SLEEPING ROOM	1	0	0	0	0	4	5
MOTEL	2	0	0	0	0	2	4
OTHER	2	0	1	0	0	3	5
TOTAL	151	64	178	73	27	47	198

TABLE A-14
FOLLOW UP SURVEY
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA

HARTSVILLE
EMPLOYEES LIVING WITHIN THE CITY LIMITS
ACTIVE EMPLOYEES 09-30-79
RUN DATE 02/08/80
REPORT 1A
RUN TIME 114139

	MOVERS WITH FAMILY	WITH CHILDREN IN SCHOOL	TOTAL NUMBER OF CHILDREN	CHILDREN IN GRADE SCHOOL	CHILDREN IN HIGH SCHOOL	MOVERS WITHOUT FAMILY	TOTAL MOVERS
ANNUAL EMPLOYEES							
HOUSE OWNED	3	2	5	2	1	1	4
HOUSE RENTED	2	1	3	4	0	0	2
APARTMENT RENTED	5	0	0	0	0	8	13
MOBILE HOME RENTED	0	0	0	0	0	3	3
MOBILE HOME OWNED	4	2	4	3	0	5	9
SLEEPING ROOM	0	0	0	0	0	1	1
MOTEL	0	0	0	0	0	1	1
OTHER	1	0	0	0	0	0	1
TOTAL	15	5	15	9	1	19	34
HOURLY EMPLOYEES							
HOUSE OWNED	8	2	8	4	2	0	8
HOUSE RENTED	17	11	25	13	7	5	22
APARTMENT RENTED	17	3	7	2	1	25	42
MOBILE HOME RENTED	29	0	31	8	5	21	50
MOBILE HOME OWNED	17	3	14	8	3	13	30
SLEEPING ROOM	1	0	0	0	0	8	9
MOTEL	1	1	2	2	0	6	7
OTHER	0	0	0	0	0	4	4
TOTAL	90	33	87	37	18	82	172
ALL EMPLOYEES							
HOUSE OWNED	11	4	13	6	3	1	12
HOUSE RENTED	19	12	31	17	7	5	24
APARTMENT RENTED	22	3	7	2	1	33	55
MOBILE HOME RENTED	29	8	31	8	5	24	53
MOBILE HOME OWNED	21	10	18	11	3	18	39
SLEEPING ROOM	1	0	0	0	0	9	10
MOTEL	1	1	2	2	0	7	8
OTHER	1	0	0	0	0	4	5
TOTAL	105	38	102	46	19	101	206

TABLE A-15
FOLLOW UP SURVEY
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA

HENDERSONVILLE
EMPLOYEES LIVING WITHIN CITY LIMITS
ACTIVE EMPLOYEES 09-30-79

RUN DATE 02/08/80
REPORT 10
RUN TIME 114139

	MOVERS WITH FAMILY	WITH CHILDREN IN SCHOOL	TOTAL NUMBER OF CHILDREN	CHILDREN IN GRADE SCHOOL	CHILDREN IN HIGH SCHOOL	MOVERS WITHOUT FAMILY	TOTAL MOVERS
ANNUAL EMPLOYEES							
HOUSE OWNED	5	2	6	2	1	1	6
HOUSE RENTED	1	1	2	1	0	0	1
APARTMENT RENTED	7	2	5	3	1	12	19
MOBILE HOME RENTED							
MOBILE HOME OWNED							
SLEEPING ROOM							
MOTEL							
OTHER							
TOTAL	13	5	13	6	2	13	26
HOURLY EMPLOYEES							
HOUSE OWNED	12	11	29	20	5	1	13
HOUSE RENTED	7	3	12	4	2	0	7
APARTMENT RENTED	7	4	11	4	2	8	15
MOBILE HOME RENTED							
MOBILE HOME OWNED	4	2	4	5	0	0	4
SLEEPING ROOM							
MOTEL	1	0	1	0	0	0	1
OTHER	0	0	0	0	0	1	1
TOTAL	31	20	57	33	9	10	41
ALL EMPLOYEES							
HOUSE OWNED	17	13	35	22	6	2	19
HOUSE RENTED	8	4	14	5	2	0	8
APARTMENT RENTED	14	6	16	7	3	20	34
MOBILE HOME RENTED							
MOBILE HOME OWNED	4	2	4	5	0	0	4
SLEEPING ROOM							
MOTEL	1	0	1	0	0	0	1
OTHER	0	0	0	0	0	1	1
TOTAL	44	25	70	39	11	23	67

TABLE A-16
 FOLLOW UP SURVEY
 WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA

LAFAYETTE
 EMPLOYEES LIVING WITHIN THE CITY LIMITS
 ACTIVE EMPLOYEES 09-30-79
 RUN DATE 02/08/80
 REPORT 1A
 RUN TIME 114139

	MOVERS WITH FAMILY	WITH CHILDREN IN SCHOOL	TOTAL NUMBER OF CHILDREN	CHILDREN IN GRADE SCHOOL	CHILDREN IN HIGH SCHOOL	MOVERS WITHOUT FAMILY	TOTAL MOVERS
ANNUAL EMPLOYEES							
HOUSE OWNED	2	1	3	2	0	0	2
HOUSE RENTED	2	2	3	3	0	0	2
APARTMENT RENTED	1	0	0	0	0	0	1
MOBILE HOME RENTED	0	0	0	0	0	1	1
MOBILE HOME OWNED							
SLEEPING ROOM							
MOTEL							
OTHER							
TOTAL	5	3	6	5	0	1	6
HOURLY EMPLOYEES							
HOUSE OWNED	21	13	34	25	10	0	21
HOUSE RENTED	7	2	11	5	0	0	7
APARTMENT RENTED	4	2	6	3	0	0	4
MOBILE HOME RENTED	16	9	25	13	6	3	19
MOBILE HOME OWNED	0	0	0	0	0	2	2
SLEEPING ROOM	0	0	0	0	0	2	2
MOTEL	0	0	0	0	0	1	1
OTHER	0	0	0	0	0	2	2
TOTAL	48	26	73	46	16	10	58
ALL EMPLOYEES							
HOUSE OWNED	23	14	41	27	10	0	23
HOUSE RENTED	9	4	14	8	0	0	9
APARTMENT RENTED	5	2	6	3	0	0	5
MOBILE HOME RENTED	16	9	25	13	6	4	20
MOBILE HOME OWNED	0	0	0	0	0	2	2
SLEEPING ROOM	0	0	0	0	0	2	2
MOTEL	0	0	0	0	0	1	1
OTHER	0	0	0	0	0	2	2
TOTAL	53	29	86	51	16	11	64

TABLE A-17

FOLLOW UP SURVEY
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA

LEBANON
EMPLOYEES LIVING WITHIN THE CITY LIMITS
ACTIVE EMPLOYEES 09-30-79

RUN DATE 02/08/80
REPORT 1A
RUN TIME 114139

	MOVERS WITH FAMILY	WITH CHILDREN IN SCHOOL	TOTAL NUMBER OF CHILDREN	CHILDREN IN GRADE SCHOOL	CHILDREN IN HIGH SCHOOL	MOVERS WITHOUT FAMILY	TOTAL MOVERS
ANNUAL EMPLOYEES							
HOUSE OWNED	8	3	8	4	3	0	8
HOUSE RENTED	3	1	4	3	0	1	4
APARTMENT RENTED	3	1	1	1	0	7	10
MOBILE HOME RENTED							
MOBILE HOME OWNED	2	1	1	1	0	1	3
SLEEPING ROOM							
MOTEL	0	0	0	0	0	1	1
OTHER	2	0	1	0	0	0	2
TOTAL	18	6	15	9	1	10	28
HOURLY EMPLOYEES							
HOUSE OWNED	4	2	6	2	2	0	4
HOUSE RENTED	13	9	21	14	3	5	18
APARTMENT RENTED	13	2	3	2	1	7	20
MOBILE HOME RENTED	0	0	0	0	0	2	2
MOBILE HOME OWNED	4	1	6	0	1	2	6
SLEEPING ROOM	1	0	0	0	0	0	1
MOTEL	1	1	1	1	0	2	3
OTHER	2	0	2	0	0	1	3
TOTAL	38	15	44	19	7	19	57
ALL EMPLOYEES							
HOUSE OWNED	12	5	14	6	3	0	12
HOUSE RENTED	16	10	25	17	3	6	22
APARTMENT RENTED	16	3	9	3	1	14	30
MOBILE HOME RENTED	0	0	0	0	0	2	2
MOBILE HOME OWNED	6	2	7	1	1	3	9
SLEEPING ROOM	1	0	0	0	0	0	1
MOTEL	1	1	1	1	0	3	4
OTHER	4	0	3	0	0	1	5
TOTAL	56	21	59	28	8	29	85

TABLE A-18
FOLLOW UP SURVEY
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA

NASHVILLE
EMPLOYEES LIVING WITHIN CITY LIMITS
ACTIVE EMPLOYEES 09-30-79

RUN DATE 02/08/80
REPORT 10
RUN TIME 114139

	MOVERS WITH FAMILY	WITH CHILDREN IN SCHOOL	TOTAL NUMBER OF CHILDREN	CHILDREN IN GRADE SCHOOL	CHILDREN IN HIGH SCHOOL	MOVERS WITHOUT FAMILY	TOTAL MOVERS
ANNUAL EMPLOYEES							
HOUSE OWNED	2	0	1	0	0	1	3
HOUSE RENTED							
APARTMENT RENTED	0	0	0	0	0	6	6
MOBILE HOME RENTED							
MOBILE HOME OWNED							
SLEEPING ROOM							
MOTEL							
OTHER	1	0	0	0	0	1	2
TOTAL	3	0	1	0	0	8	11
HOURLY EMPLOYEES							
HOUSE OWNED	8	7	15	7	4	1	9
HOUSE RENTED	15	5	10	8	1	4	19
APARTMENT RENTED	8	1	2	2	0	10	18
MOBILE HOME RENTED	2	1	2	1	0	0	2
MOBILE HOME OWNED							
SLEEPING ROOM							
MOTEL	0	0	0	0	0	1	1
OTHER	2	0	0	0	0	2	4
TOTAL	35	14	30	18	5	18	53
ALL EMPLOYEES							
HOUSE OWNED	10	7	17	7	4	2	12
HOUSE RENTED	15	5	10	8	1	4	19
APARTMENT RENTED	8	1	2	2	0	16	24
MOBILE HOME RENTED	2	1	2	1	0	0	2
MOBILE HOME OWNED							
SLEEPING ROOM							
MOTEL	0	0	0	0	0	1	1
OTHER	3	0	0	0	0	3	6
TOTAL	38	14	31	18	5	26	64

Appendix B

SECONDARY SOCIOECONOMIC IMPACT MONITORING
OF HARTSVILLE NUCLEAR PLANT ENVIRONMENTAL IMPACT AREA

Secondary impact is defined as a temporary increase in the trade and service related resident population of the five-county area having an impact on community facilities and services which can be attributed to the Hartsville construction project.

TVA's monitoring program consists of a three-step procedure during each reporting period for estimating and reconciling population changes for each of the impact area counties. Residential customers of power distributors and school enrollment are used to provide independent estimates of county residential population change during a given reporting period. Population for the beginning of the first reporting period is estimated by applying the procedure outlined in Step I below to the most current estimate of county population provided by U.S. Bureau of the Census Current Population Reports. Subsequent estimates of population for the start of a reporting period is the TVA estimate at the end of the previous reporting period and is adjusted each time more current census estimates are available.

An estimate of secondary impact is made using the following three-steps process.

Step I

Ratios of school enrollment and residential customers to population is calculated at the beginning of the reporting period for each of the impact area counties. These ratios are applied to the number of residential

customers and school enrollment at the end of the period. This yields two estimates of population change during the reporting period. These two estimates are averaged to produce a single estimate of population change for each of the impact area counties.

Step II

Primary employment population, taken from TVA employee surveys, is subtracted from total adjusted population. If a residual population is derived, the analysis will continue to Step III.

Step III

This step comprises an analysis of nonproject related primary employment and its secondary effect to determine what part of the remaining unexplained population change should not be attributed to the project.

An estimate of change in total employment in each of the impact area counties during the reporting period is made using monthly data from the "CPS Labor Force Summary" produced by the Tennessee Department of Employment Security. In order to determine that part of the change in total employment which can be attributed to forces other than the construction project, it is necessary to estimate the change in nonproject related employment. Change in nonprojected related primary employment is estimated using a linear interpolation of primary employment as a percent of total employment in 1970 and projected to 1980, as given in the 1974 report by the Tennessee State Planning Office, Tennessee Mitigation, Population Families, Income, and Manpower Demand Projection to 1990 for Development Districts and Counties. A ratio of .65 will be applied to the

change in nonproject related primary employment to determine that part of the change in secondary employment which can be considered nonproject related. The total employment change is converted to population using an average family size of three and subtracted from any unexplained population remaining. If no other reason exists for the remaining population it will be considered as secondary impact.

As results of the 1980 Census of Population or any other special census of census estimates are published, the population base of the impact area counties will be recalibrated. Residential customers, school enrollment, and total population will be recorrelated. Essentially, a new population base will be established from which to measure change throughout the remainder of the monitoring period.

Appendix C

TRAFFIC LEVEL DEFINEDLevel of Service D

Level of Service D approaches unstable flow, with tolerable operating speeds being maintained though considerably affected by changes in operating conditions. Fluctuations in volume and temporary restrictions to flow may cause substantial drops in operating speeds. Drivers have little freedom to maneuver, and comfort and convenience are low, but conditions can be tolerated for short periods of time.

Source: Highway Capacity Manual, Highway Research Board
Special Report 87, 1965.

Appendix D-1

EMPLOYEE QUESTIONNAIRE - TRADES AND LABOR

2

NAME _____ SOCIAL SECURITY NO. _____
 LAST FIRST

1. WHERE DID YOU LIVE BEFORE BEGINNING WORK ON THIS PROJECT?

 CITY
 COUNTY
 STATE

2. WHERE ARE YOU NOW LIVING DURING THE WORK WEEK?

 STREET ADDRESS
 CITY
 COUNTY
 STATE

3. DO YOU LIVE INSIDE THE CITY LIMITS? YES NO

4. HOW DID YOU OBTAIN MOST OF THE TRAINING THAT PREPARED YOU FOR YOUR PRESENT TRADE OR TYPE OF WORK? (CHECK ONLY ONE)

____ 1. HIGH SCHOOL	____ 4. ARMED SERVICES
____ 2. COLLEGE	____ 5. ON THE JOB BUT NOT FORMAL
____ 3. VOCATIONAL SCHOOL OR FORMAL APPRENTICESHIP PROGRAM	____ 6. OTHER (PLEASE SPECIFY) _____

5. IMMEDIATELY BEFORE ACCEPTING EMPLOYMENT ON THIS PROJECT WHAT WAS YOUR LAST JOB (SUCH AS STEAMFITTING, LABORER, FARMING, MAINTENANCE, ETC.)?

6. WHAT TYPE OF BUSINESS WERE YOU IN (SUCH AS MANUFACTURING, CONSTRUCTION, REPAIR OR MAINTENANCE SHOP, ETC.)?

7. WHERE WAS THIS BUSINESS LOCATED?

 CITY
 STATE

8. CHECK WHICH TYPE OF RESIDENCE IN THE PROJECT AREA WHERE YOU NOW LIVE.

____ 1. BOARDING OR SLEEPING ROOM	____ 4. MOBILE HOME
____ 2. MOTEL	____ 5. HOUSE
____ 3. APARTMENT	____ 6. OTHER (PLEASE SPECIFY) _____

9. IF YOU LIVE IN A HOUSE OR MOBILE HOME IN THE PROJECT AREA, DO YOU OWN IT?

____ YES ____ NO

10. IN THE PROJECT AREA, CHECK WITH WHOM YOU LIVE.

____ 1. BY MYSELF	____ 3. WITH ROOMMATES
____ 2. WITH MY FAMILY	____ HOW MANY? _____
	____ 4. OTHER (PLEASE SPECIFY) _____

11. HOW MANY CHILDREN LIVE WITH YOU IN THE PROJECT AREA? _____

OF THESE, HOW MANY GO TO GRADE SCHOOL? _____

OF THESE, HOW MANY GO TO HIGH SCHOOL? _____

12. HAVE YOU LIVED AT YOUR PRESENT ADDRESS MORE THAN SIX MONTHS?

____ YES ____ NO

THANK YOU FOR COOPERATING IN THIS SURVEY.
 HARTSVILLE NUCLEAR PLANT NEW EMPLOYEE SURVEY

Appendix D-2

EMPLOYEE QUESTIONNAIRE - SALARY POLICY

3

NAME _____ SOCIAL SECURITY NO. _____
 LAST FIRST

1. WHERE DID YOU LIVE BEFORE BEGINNING WORK ON THIS PROJECT?

 CITY
 COUNTY
 STATE

2. WHERE ARE YOU NOW LIVING DURING THE WORK WEEK?

 STREET ADDRESS
 CITY
 COUNTY
 STATE

3. DO YOU LIVE INSIDE THE CITY LIMITS? YES NO

4. HOW DID YOU OBTAIN MOST OF THE TRAINING THAT PREPARED YOU FOR YOUR PRESENT TRADE OR TYPE OF WORK? (CHECK ONLY ONE OF THE FOLLOWING)

____ 1. HIGH SCHOOL	____ 4. ARMED SERVICES
____ 2. COLLEGE	____ 5. ON THE JOB BUT NOT FORMAL TRAINING PROGRAM
____ 3. VOCATIONAL SCHOOL	____ 6. OTHER (PLEASE SPECIFY) _____

5. IMMEDIATELY BEFORE ACCEPTING EMPLOYMENT ON THIS PROJECT WHAT WAS YOUR LAST JOB (SUCH AS CLERICAL, SECRETARIAL, ENGINEERING AIDE, LABORER, ETC.)?

6. WHAT TYPE OF BUSINESS WERE YOU IN (SUCH AS MANUFACTURING, CONSTRUCTION, RETAIL, SALES, SERVICES, ETC.)?

7. WHERE WAS THIS BUSINESS LOCATED?

 CITY
 STATE

8. CHECK WHICH TYPE OF RESIDENCE IN THE PROJECT AREA WHERE YOU NOW LIVE.

____ 1. BOARDING OR SLEEPING ROOM	____ 4. MOBILE HOME
____ 2. MOTEL	____ 5. HOUSE
____ 3. APARTMENT	____ 6. OTHER (PLEASE SPECIFY) _____

9. IF YOU LIVE IN A HOUSE OR MOBILE HOME IN THE PROJECT AREA, DO YOU OWN IT?

____ YES ____ NO

10. IN THE PROJECT AREA, CHECK WITH WHOM YOU LIVE.

____ 1. BY MYSELF	____ 3. WITH ROOMMATES, HOW MANY? _____
____ 2. WITH MY FAMILY	____ 4. OTHER (PLEASE SPECIFY) _____

11. HOW MANY CHILDREN LIVE WITH YOU IN THE PROJECT AREA? _____

OF THESE, HOW MANY GO TO GRADE SCHOOL? _____

OF THESE, HOW MANY GO TO HIGH SCHOOL? _____

12. HAVE YOU LIVED AT YOUR PRESENT ADDRESS MORE THAN SIX MONTHS?

____ YES ____ NO

THANK YOU FOR COOPERATING IN THIS SURVEY.
 HARTSVILLE NUCLEAR PLANT NEW EMPLOYEE SURVEY

Appendix D-3
FOLLOW-UP QUESTIONNAIRE

1. Do you still live at _____ (Employee's Address) _____?

_____ YES.
 _____ NO.

IF SO, SKIP TO QUESTION 2.

IF NOT, PLEASE ANSWER THE FOLLOWING QUESTIONS:

WHERE ARE YOU NOW LIVING DURING THE WORK WEEK?

 _____ STREET ADDRESS
 _____ CITY
 _____ COUNTY
 _____ STATE

DO YOU LIVE INSIDE THE CITY LIMITS? _____ YES _____ NO

CHECK WHICH TYPE RESIDENCE IN THE PROJECT AREA YOU LIVE IN

- _____
 _____ 1. BOARDING OR SLEEPING ROOM
 _____ 2. MOTEL
 _____ 3. APARTMENT
 _____ 4. MOBILE HOME
 _____ 5. HOUSE
 _____ 6. OTHER (PLEASE SPECIFY) _____

2. IF YOU LIVE IN A HOUSE OR MOBILE HOME IN THE PROJECT AREA, DO YOU OWN IT?

_____ YES _____ NO

3. IN THE PROJECT AREA, CHECK WITH WHOM YOU NOW LIVE:

- _____
 _____ 1. BY MYSELF
 _____ 2. WITH MY FAMILY
 _____ 3. WITH ROOMMATES. HOW MANY? _____
 _____ 4. OTHER (PLEASE SPECIFY) _____

4. HOW MANY CHILDREN LIVE WITH YOU IN THE PROJECT AREA? _____

OF THESE, HOW MANY GO TO GRADE SCHOOL? _____

OF THESE, HOW MANY GO TO HIGH SCHOOL? _____

5. HAVE YOU LIVED AT YOUR PRESENT ADDRESS MORE THAN SIX MONTHS? _____ YES _____ NO

6. HAVE YOU OR ANY OF YOUR FAMILY LIVING WITH YOU IN THE PROJECT AREA HAD ANY DIFFICULTY OBTAINING HEALTH TREATMENT?

_____ YES. IF SO, CHECK THOSE WHICH YOU HAD DIFFICULTY OBTAINING:

- _____
 _____ DOCTOR (NOT EMERGENCY)
 _____ DENTIST
 _____ EMERGENCY MEDICAL TREATMENT
 _____ HOSPITALIZATION
 _____ OTHER (PLEASE SPECIFY) _____

_____ NO

7. HAVE YOU OR ANY OF YOUR FAMILY LIVING WITH YOU IN THE PROJECT AREA HAD TO TRAVEL OUTSIDE YOUR PRESENT COUNTY TO OBTAIN HEALTH TREATMENT?

_____ YES. IF SO, WHAT WAS THE SERVICE AND WHERE DID YOU HAVE TO GO?

_____ NO _____

THANK YOU FOR COOPERATING IN THIS SURVEY.

HARTSVILLE NUCLEAR PLANT FOLLOWUP

