

TENNESSEE VALLEY AUTHORITY

HARTSVILLE NUCLEAR PLANTS  
SOCIOECONOMIC MONITORING AND MITIGATION REPORT  
HNP SMR-8  
March 31, 1980

Knoxville, Tennessee  
October 1980

8012300665

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## HARTSVILLE NUCLEAR PLANTS

### SOCIOECONOMIC MONITORING AND MITIGATION REPORT

#### 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 eighth 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 October 1, 1979, through March 31, 1980.

Employment dropped from 6,340 to 5,436 this period. The number of movers and population influx to all five impact counties was lower than at the end of the previous reporting period. The mover rate was 32 percent for a total of 1,743 movers.

TVA has made mitigation payments totaling approximately \$7 million. More than \$3 million of this amount was for employee transportation.

HARTSVILLE NUCLEAR PLANTS  
SOCIOECONOMIC MONITORING AND MITIGATION REPORT

I. General Status of Employment as of March 31, 1980

A survey of all TVA employees as of March 31, 1980, was conducted during May of 1980. 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 had dropped to 5,436 employees and information was available for 5,286 employees (97 percent). Of those who provided information, 1,696 employees indicated they had moved for a mover rate of about 32 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 5,436 employees which results in an estimated total number of movers of 1,743. Of the total, 1,377 movers located in the five impact counties; and 366 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.

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 the movers' 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, for example, resident employees from Trousdale County would be found by locating Trousdale County in the "From" column and going across the table to the "To" column which also reads Trousdale County. In this survey 204 residents of Trousdale County were employed at the end of March 1980. Movers are shown by any other data in this table. For example, 8 employees moved from Other Kentucky Counties to Macon 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). For a workforce of approximately 5,400 employees, 54 percent had been projected to be movers. However, the survey found a mover rate of 32 percent. Sumner County is still receiving the largest share of movers (30 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

rate to both Smith and Trousdale Counties is still much lower than projected. Smith County received only 12 percent compared with the projected 20 percent and the mover rate to Trousdale County remained at only 16 percent compared with the projected 30 percent. The mover rate to Wilson County remained low at 14 percent compared with the projected 20 percent. Although Sumner County is receiving the largest number of movers, the survey shows that the number of movers dropped from 554 to 518 since the last report. The number of movers to Sumner County is close to that projected, but all other counties are receiving far fewer movers than expected. Mover projections were made only for the five impact counties, but 275 employees moved to other counties. The number of movers from Davidson County dropped from 129 movers to 91. The survey revealed that 192 employees moved from Davidson County and of those 150 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 March 31, 1980, 76 percent of those employees who moved brought their families and 24 percent moved without their families. School-age children per family averaged 0.9 compared with the projected 1.0, and the total average family size was 3.4 compared with the projected 3.0. The survey of housing choice shows 56 percent are living in houses, 23 percent in mobile homes, 14 percent in apartments, 3 percent in motel and sleeping rooms, and 5 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 containing at least 50 movers in tables A-11 through 17.

### 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. These include Hendersonville (70) and Nashville (52) as shown in table A-3. Hendersonville with an approximate population of 28,000 and Nashville with 469,000 would not be affected by an employment change of this magnitude. Detailed survey results are shown in tables A-16 and A-17. Two earlier surveys contained tables for Davidson County; but because the number of movers dropped below 100 in this survey, this report does not include the detailed survey results for Davidson County.



### 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.

The survey results of March 31, 1980, revealed a decline in project-related population in all impact area counties from the September 30, 1979, survey (see table 1). Macon, Sumner, and Trousdale Counties experienced population declines according to the estimates while Smith and Wilson Counties showed population increases. The declining project-related populations remove the possibility of any secondary employment impact during this period.

Table 2 contains data for the period April 30, 1976, to March 31, 1980, covering the period from start of construction to the date of the most current survey. Only two counties, Macon and Smith, have experienced population change which cannot be explained by other primary employment. Macon County experienced a decline in total employment during the period which eliminates the possibility of any project-related secondary employment there. Smith County, on the other hand, experienced a nonproject-related primary increase in employment, but was not sufficient to explain all the change in population. However, the unexplained change in population was only 1.3 percent of county population which is well within the error of estimate.

Table 1

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  
SEPTEMBER 30, 1979 - MARCH 31, 1980

	Population Estimate <u>9/30/79</u>	Population Estimate <u>3/31/80</u>	Change in Population Estimate <u>9/30/79 - 3/31/80</u>	Change in Project* Related Population <u>9/30/79 - 3/31/80</u>
Macon County	15,793	15,212	-581	-44
Smith County	13,858	14,176	318	-19
Sumner County	80,488	78,511	-1,977	-71
Trousdale County	5,364	5,278	-86	-60
Wilson County	50,146	50,930	784	-54

\*TVA Employee Surveys.

Population estimates by Community Economics Projects Group.

Community Economics Projects Group  
 10/3/80

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 - MARCH 31, 1980

	Population Estimate 4/30/76	Population Estimate 3/31/80	Change in Population Estimate 4/30/76 - 3/31/80	Change in Project* Related Population 4/30/76 - 3/31/80	Remainder of Nonproject Related Population as of 3/31/80	Change in Population Possible From Other Primary Employment	Change in Population Unexplained
Macon County	13,602	15,212	1,610	435	1,175	0	1,175
Smith County	12,643	14,176	1,533	543	990	810	180
Sumner County	69,544	78,511	8,967	1,525	7,442	19,728	—
Trousdale County	5,232	5,278	46	658	0	—	—
Wilson County	45,709	50,930	5,221	707	4,514	10,620	—

\*TVA Employee Surveys.

Population estimates by Community Economics Projects Group.

Community Economics Projects Group  
10/3/80

Census of population data for 1980 will be available prior to the next report and all data will be revised.

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 is shown in Table 3. All school districts reported a smaller direct impact student enrollment than anticipated for school year 1979-80.

Table 3

School System Reports of  
Hartsville Nuclear Plants  
Direct Impact Students

March 31, 1980

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

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 payments this period totaled \$26,325.

Table 4

TVA Education Mitigation Payments

(October 1, 1979 - March 31, 1980)

<u>School System</u>	<u>Facilities</u>	<u>Buses</u>	<u>Total</u>
Macon County	-	-	-
Smith County	-	-	-
Sumner County	-	\$17,392	\$17,392
Trousdale County	\$8,933	-	\$ 8,933
Wilson County	-	-	-
Lebanon City	-	-	-
Watertown City	-	-	-
	<hr/>	<hr/>	<hr/>
TOTAL	\$ 8,933	\$17,392	\$26,325

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

All school systems in the Hartsville Nuclear Plants project area are eligible to participate in School Assistance in Federally Affected Areas, Title I, Public Law 81-874 programs in fiscal year 1980. Wilson County became eligible for the first time in fiscal year 1978, Macon County in fiscal year 1977, and Trousdale in fiscal year

1976; Smith County, Sumner County, and Lebanon City were eligible and participated prior to fiscal year 1975. Watertown Special School District did not participate in fiscal year 1980. 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 five participating school systems. In fiscal year 1978, the six participating school systems claimed 2,467 students; in fiscal year 1979, 3,026 were reported. Even though there is a. increase of 174 students for fiscal year 1980, over fiscal year 1979, there is an apparent leveling off of TVA-related students.

According to the school systems in the impact counties and the State Department of Education, TVA is continuing to meet 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. At present there are 78 units occupied. The Hillsdale Mobile Home Park, located approximately seven miles from the construction site, has 43 of their 76 units presently occupied. Due to financial difficulty, the Upper Cumberland Housing Development Corporation is in the planning stages of possible liquidation of the Hillsdale Mobile Home Park.

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 have 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.

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, \$225,000 has been provided to the committee with funding at \$12,500 per quarter.

Water and Sewer--The city of Lafayette requested TVA's assistance with water system problems that they felt were directly related to the impact of population increases resulting from the nuclear plant construction. Careful investigation has revealed that some of Lafayette's water problems have probably existed for quite some time. Actually the number of incoming workers and their families were much less than had been originally projected for the Lafayette area during peak employment at the plant and no justification for assistance to Lafayette could be found.

TABLE 5

TVA LOCAL PLANNING ASSISTANCE PAYMENTS

<u>Planning Commissions</u>	<u>Amount Paid This Period</u>	<u>Total Paid to date</u>
Hartsville-Trousdale County	\$ 1,000	\$ 4,308
Smith County	688	5,313
Sumner County	2,375	6,125
Wilson County	3,000	6,750
Carthage	-	3,252
South Carthage	625	2,444
Gordonsville	-	476
Lafayette	-	1,221
Gallatin	-	6,256
Lebanon	-	6,725
Hendersonville	744	6,725
Tennessee State Planning Office	-	<u>20,000</u>
TOTAL	\$ 8,432	\$69,595



Of the \$75,000 originally paid to Carthage for improvements to their water treatment facilities, \$66,097 has been expended thus far for these purposes.

Health and Medical Services--TVA has provided technical assistance to Trousdale and Smith Counties in the operation and expansion of their county ambulance services. These two counties are the primary and secondary emergency medical backup systems for Kartsville Nuclear Plants. TVA will continue to assess the health needs of the 5-county impact 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 5,400 employees, peak-hour traffic on Highway 25 was 440 vehicles per hour (VPH) east of the site and 920 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 B). In an effort to mitigate the peak-hour traffic volumes, TVA is continuing the employee transportation program (commuter vans and buses).

Table 6

TRAFFIC EVALUATION

(October 1975 - March 1980)

	Number of Vehicles During Peak Hour*		TVA Commuter Traffic
	<u>1975</u>	<u>1980</u>	
Highway 25 East of Plant	120	440	340
Highway 25 West of Plant	120	920	850
Highway 25 West of Hartsville	290	720	530
Highway 25 West of 231 Junction	210	500	280
Highway 231 South of 25 Junction	150	280	180
Highway 231 North of Lebanon	150	300	110

\*The peak hour occurred during the 3-4 p.m. hour.

Employee Transportation--During this period, one bus was discontinued serving the Manchester area due to insufficient ridership. This brought the total number of buses operating to and from the Hartsville Nuclear Plant to 16 as follows: Nashville - seven buses; Gallatin and Lebanon - two buses each; and Lafayette, Portland, Hermitage, Mt. Juliet, and Murfreesboro - one bus each. The number of van pools dropped to 131 from 148 last period. Ridership increased from 47 percent last period to 56 percent of the employees on the day shift riding vans and buses to work. An estimated 1,067 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 were approximately \$981,000.

Local Government Budgets--The impact on the budgets of local governments in the impact area of the Hartsville construction project is measured on an annual basis. This measurement is made by projecting the project-related revenues to be received by the local governments. The projected revenues and expenditures are then compared to determine whether deficits will occur. TVA then 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	\$71,000
Macon County	22,786
Smith County	43,500
City of Gallatin	<u>18,600</u>
	\$155,886

In the previous reporting period, payments for local government budgets in the amounts of \$2,200 for the city of Hendersonville and \$900 for the town of Carthage were reported in error.

TVA continues to monitor local government impacts after the contracts are negotiated, and if additional impacts occur, TVA will renegotiate with the local governments in order to remove the deficit.

Local Recruitment and Training--A total of 1,982 workers were local residents of the 5-county impact area, and 738 were residents of Davidson County. This indicates that local recruitment and training

initiatives are continuing to be successful in reducing the overall socioeconomic impact within the five counties. The steamfitter training program has graduated a total of 73 trainees who have all taken jobs at the Hartsville Nuclear Plant. Due to the leveling off in demand for steamfitters at the plant, the steamfitter training program has been discontinued. The boilermaker training program has graduated 79, of which 29 are presently at the Hartsville Nuclear Plant. Most of the other graduates are at other TVA plants in middle Tennessee (e.g., Gallatin and Johnsonville steam 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 through local contacts and field review. Technical assistance was provided to several communities for design of recreation facilities. Communities assisted during the reporting period include the following:

1. Gordonsville - Grading plan for development of Gordonsville City Park.
2. Hartsville - Trousdale County
  - A. Architectural design assistance for renovation of Ward School Community Building.
  - B. Site design assistance for development for Kate Wilson School tennis courts.

- C. Site design assistance for development for Taylor's Landing Recreation Area.
3. Macon County - Site planning assistance for development of Macon County Park.
  4. Sumner County - Site design assistance for development of Sumner County Park.
  5. Lafayette - Site design assistance for development of Key Jackson Park.
  6. Westmoreland - Site design assistance for development of Westmoreland City Park.

Recreation mitigation assistance is also anticipated for Smith and Macon Counties to provide financial assistance for the construction of needed park facilities. Recreation Resources Program staff are currently working with local officials to implement these projects. TVA will continue to provide technical and financial assistance to offset any significant impacts on community recreation resources.

Hartsville Intergenerational Child Care Program--The contract to coordinate the program was signed on April 3, 1980, by the Executive Director of the Mid-Cumberland Human Resource Agency. The Tennessee Department of Human Services is also working closely with the program which is designed to supplement fixed incomes of area residents while it provides for increased child care needs around the Hartsville Nuclear Plant site. Selection of six to eight residents to provide child care in their homes will occur prior to September 1, 1980.

During the time period of October 1979 and March 1980 no money was spent.

Summary of Mitigation Expenditures--In the functional areas of mitigation, TVA has made payments totaling \$6,838,605 as noted in table 7.

TABLE 7  
Summary of TVA Mitigation Expenditures  
as of March 31, 1980

	<u>Expenditures This Period</u>	<u>Expenditures To Date</u>
Education	\$ 26,325	\$1,523,084
Housing	-	423,000 <sup>1</sup>
Local Planning and Coordination Assistance	33,431	294,127
Water and Sewer	-	380,000 <sup>2</sup>
Health	-	108,772
Local Governments	155,886	764,939
Employee Transportation	<u>981,000</u>	<u>3,344,683</u>
TOTAL	\$1,196,642	\$6,838,605

1. Includes \$60,000 interest-bearing loan.
2. Includes \$125,000 noninterest-bearing loan.

APPENDIXES

Table A-1

FOLLOW UP SURVEY  
TOWN OF CURRENT RESIDENCE  
HARTSVILLE NUCLEAR PLANT EMPLOYEES  
ACTIVE EMPLOYEES 03-31-80

RUN DATE 07/29/80  
RUN TIME 125047  
REPORT 2

TOWN		MOVED TO TOWN	ALREADY IN TOWN	TOTAL	POPULATION
ALEXANDRIA	TN	11	37	48	680
BAXTER	TN	8	53	61	1,314
CARTHAGE	TN	74	121	195	2,491
COOKEVILLE	TN	32	76	108	17,800
CROSSVILLE	TN	12	43	55	5,381
DOWELL TOWN	TN	5	15	20	329
GAINESBORO	TN	7	38	45	1,101
GALLATIN	TN	301	374	675	13,362
GORDONSVILLE	TN	11	34	45	601
HARTSVILLE	TN	263	203	466	2,243
HENDERSONVILLE	TN	75	137	212	28,000
LAFAYETTE	TN	122	201	323	2,583
LEBANON	TN	194	240	434	12,492
MCMINNVILLE	TN	6	8	14	11,610
MANCHESTER	TN	8	22	30	6,669
MURFREESBORO	TN	15	39	54	28,700
NASHVILLE	TN	57	432	489	469,000
PORTLAND	TN	16	52	68	3,081
RED BOILING SPRINGS	TN	12	54	66	956
SMITHVILLE	TN	8	104	112	3,762
SOUTH CARTHAGE	TN	9	25	34	859
SPARTA	TN	12	10	22	4,930
WESTMORELAND	TN	22	66	88	1,423
ASHLAND CITY	TN	5	10	15	2,027
BETHPAGE	TN	18	46	64	400
CASTALIAN SPRINGS	TN	60	38	98	150
COTTONTOWN	TN	6	15	21	100
DIXON SPRINGS	TN	71	34	105	100
GOODLETTSVILLE	TN	7	51	58	7,541
HERMITAGE	TN	8	32	40	6,000
LANCASTER	TN	5	7	12	150
MADISON	TN	9	95	104	21,500
MOUNT JULIET	TN	29	77	106	1,568
OLD HICKORY	TN	8	54	62	6,000
PLEASANT SHADE	TN	13	30	43	150
RIDDLETON	TN	9	18	27	100
SILVER POINT	TN	5	16	21	150
WATERTOWN	TN	6	28	34	1,061
WHITE HOUSE	TN	13	9	22	1,305
SUBTOTAL		1552	2944	4496	
CELINA	TN	3	21	24	1,370
CHARLOTTE	TN	2	8	10	610



Table A-1, Page 2

FOLLOW UP SURVEY  
TOWN OF CURRENT RESIDENCE  
HARTSVILLE NUCLEAR PLANT EMPLOYEES  
ACTIVE EMPLOYEES 03-31-80

RUN DATE 07/29/80  
RUN TIME 125047  
REPORT 2

TOWN		MOVED TO TOWN	ALREADY IN TOWN	TOTAL	POPULATION
CLARKSVILLE	TN	1	9	10	44,900
FRANKLIN	TN	0	6	6	11,298
GREEN BRIER	TN	2	27	29	2,279
LA VERGNE	TN	3	11	14	5,209
LIBERTY	TN	1	23	24	332
LIVINGSTON	TN	0	5	5	3,050
MONTEREY	TN	3	5	8	2,351
RIDGETOP	TN	1	7	8	810
SHELBYVILLE	TN	0	11	11	11,900
SMYRNA	TN	3	11	14	5,698
SPRINGFIELD	TN	3	21	24	9,720
TULLAHOMA	TN	2	7	9	15,577
WOODBURY	TN	4	14	18	2,087
ANTI OCH	TN	1	14	15	900
AUBURN TOWN	TN	1	5	6	213
BRUSH CREEK	TN	2	18	20	230
BUFFALO VALLEY	TN	2	15	17	100
CHESTNUT MOUND	TN	0	7	7	125
CROSS PLAINS	TN	0	8	8	261
DONELSON	TN	0	11	11	25,500
ELMWOOD	TN	3	12	15	100
GRANVILLE	TN	0	6	6	100
HICKMAN	TN	3	20	23	200
JOELTON	TN	0	19	19	900
MOSS	TN	2	11	13	200
WHITLEYVILLE	TN	1	5	6	50
BOWLING GREEN	KY	1	5	6	39,400
FRANKLIN	KY	2	7	9	7,176
GAMALIEL	KY	0	5	5	431
SCOTTSVILLE	KY	4	76	80	3,584
TOMPKINSVILLE	KY	4	17	21	2,207
ADOLPHUS	KY	2	9	11	250
SUBTOTAL		56	456	512	
OTHER		88	190	278	
TOTAL RESPONSES		1696	3590	5286	
HNP WORKFORCE TOTAL 03-31-80				5436	

Table A-2

FOLLOW UP SURVEY  
 SOURCE AND LOCATION OF CONSTRUCTION EMPLOYEES RUN DATE 07/29/80  
 HARTSVILLE NUCLEAR PLANT RUN TIME 125211  
 ACTIVE EMPLOYEES 03-31-80 REPORT 4

FROM --- TO	-----IMPACT COUNTIES-----					DAVIDSON	OTHER REC. COUNTIES	OTHER TENN. COUNTIES	OTHER KENTUCKY COUNTIES	OTHER (4)	TOTAL
	TROUSDALE	SMITH	MACON	SUMNER	WILSON						
TROUSDALE (1)	204	9	6	24	6	2	3				254
SMITH (1)	7	344	6	2	7	1	8	3	1		379
MACON (1)	4	4	268	6	4	1	1				288
SUMNER (1)	21	7	8	759	9	14	9	2	1		830
WILSON (1)	12	7		17	352	9	10	6			413
DAVIDSON (1)	13	21	3	74	35	717	20	21			904
OTHER RECRUITING COUN (2)	12	28	14	19	14	7	764	18	4		880
OTH'R TN. COUNTIES (3)	104	63	37	165	80	28	39	262	2	6	786
OTHER KY. COUNTIES (3)	4	1	8	8	3		3		20		47
ALABAMA	22	18	6	57	24	8	4	2		5	146
ARKANSAS	2	1	2	4							9
GEORGIA	5	1	2	3	6		1	1		1	20
MISSISSIPPI	1		1	4	1	1	1				9
NORTH CAROLINA		1	1	2	4					1	9
SOUTH CAROLINA	1	1		1		1	1				5
OTHER STATES	55	29	37	90	36	17	13	15		15	307
*** TOTAL	467	535	399	1235	581	806	877	330	28	28	5286

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  
March 31, 1980

<u>County</u>	<u>Percent of Movers</u>	<u>Number<sup>1</sup> of Movers</u>	<u>Population Influx<sup>1</sup></u>	
			<u>School age</u>	<u>Total</u>
Trousdale	16	270	137	658
Smith	12	211	118	543
Macon	8	142	126	435
Sumner	30	518	382	1,525
Wilson	14	236	178	707
Other Counties	<u>20</u>	<u>366</u>	<u>247</u>	<u>1,014</u>
Total	100 <sup>2</sup>	1,743	1,195	4,882
<u>Community<sup>3</sup></u>				
Carthage	3	51	17	102
Gallatin	11	190	103	516
Hartsville	10	175	79	383
Hendersonville	4	70	44	177
Lafayette	3	59	64	189
Lebanon	4	65	23	151
Nashville	<u>3</u>	<u>52</u>	<u>23</u>	<u>122</u>
Total	38	662	353	1,640

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 - 5,436

	<u>Projected</u>	<u>Surveyed</u> <sup>1</sup>
Number Movers	2,935	1,743
Percent Movers	54	32
School age Children	1,908	1,195
School age Children/Family	1.0	0.9
Total Population	6,751	4,882

  

	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>
Movers with Families	63	1,908	76	1,333
Movers without Families	35	1,027	24	410

  

	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>
Housing Choice:				
Houses	31	910	56	979
Mobile Homes	47	1,380	23	392
Apartments	18	528	14	235
Motel and Sleeping Rooms	4	117	3	48
Other	0	0	5	89
Total	100	2,935	100 <sup>2</sup>	1,743

  

	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>
Distribution by County:				
Davidson	0	0	5	91
Trousdale	30	881	16	270
Smith	20	587	12	211
Macon	10	293	8	142
Sumner	20	587	30	518
Wilson	20	587	14	236
Other Counties	0	0	16	275
Total	100	2,935	100 <sup>2</sup>	1,743

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 PAGE 018

MOVER SUMMARY  
ACTIVE EMPLOYEES 03-31-80

RUN DATE 07/29/80  
REPORT 1F  
RUN TIME 125018

	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	143	359	183	64	14	262
HOUSE RENTED	48	15	45	22	6	8	56
APARTMENT RENTED	29	7	16	7	2	55	84
MOBILE HOME RENTED	5	5	6	7	0	9	14
MOBILE HOME OWNED	25	7	22	6	2	16	41
SLEEPING ROOM	2	2	5	4	0	3	5
MOTEL	1	0	2	0	0	2	3
OTHER	8	0	1	0	0	5	13
TOTAL	366	179	456	229	74	112	478
HOURLY EMPLOYEES							
HOUSE OWNED	340	209	553	278	131	14	354
HOUSE RENTED	225	100	307	142	56	55	280
APARTMENT RENTED	87	27	80	26	12	58	145
MOBILE HOME RENTED	81	32	102	44	15	55	136
MOBILE HOME OWNED	150	70	196	96	27	40	190
SLEEPING ROOM	5	0	3	0	0	16	21
MOTEL	4	2	8	4	0	14	18
OTHER	39	18	51	20	8	35	74
TOTAL	931	458	1300	610	249	287	1218
ALL EMPLOYEES							
HOUSE OWNED	588	352	912	461	195	28	616
HOUSE RENTED	273	115	352	164	62	63	336
APARTMENT RENTED	116	34	96	33	14	113	229
MOBILE HOME RENTED	86	37	108	51	15	64	150
MOBILE HOME OWNED	175	77	218	102	29	56	231
SLEEPING ROOM	7	2	8	4	0	19	26
MOTEL	5	2	10	4	0	16	21
OTHER	47	18	52	20	8	40	87
TOTAL	1297	637	1756	839	323	399	1696

Table A-6

FOLLOW UP SURVEY  
 WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA PAGE 006

MACON  
 EMPLOYEES LIVING WITHIN THE COUNTY TOTAL  
 ACTIVE EMPLOYEES 03-31-80  
 RUN DATE 07/29/80  
 REPORT 18  
 RUN TIME 125018

	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	10	7	17	10	1	0	10
HOUSE RENTED	4	3	5	3	2	0	4
APARTMENT RENTED	2	0	0	0	0	0	2
MOBILE HOME RENTED	1	1	1	1	0	0	1
MOBILE HOME OWNED	0	0	0	0	0	2	2
SLEEPING ROOM							
MOTEL							
OTHER							
TOTAL	17	11	23	14	3	2	19
HOURLY EMPLOYEES							
HOUSE OWNED	45	26	72	43	16	0	45
HOUSE RENTED	14	9	24	18	3	2	16
APARTMENT RENTED	5	3	8	4	0	0	5
MOBILE HOME RENTED	14	4	18	6	2	8	22
MOBILE HOME OWNED	18	7	19	9	2	3	21
SLEEPING ROOM	0	0	0	0	0	3	3
MOTEL	0	0	0	0	0	1	1
OTHER	4	3	4	3	0	2	6
TOTAL	100	52	145	83	23	19	119
ALL EMPLOYEES							
HOUSE OWNED	55	33	89	53	17	0	55
HOUSE RENTED	18	12	29	21	5	2	20
APARTMENT RENTED	7	3	8	4	0	0	7
MOBILE HOME RENTED	15	5	19	7	2	8	23
MOBILE HOME OWNED	18	7	19	9	2	5	23
SLEEPING ROOM	0	0	0	0	0	3	3
MOTEL	0	0	0	0	0	1	1
OTHER	4	3	4	3	0	2	6
TOTAL	117	63	168	97	26	21	138

Table A-7

FOLLOW UP SURVEY  
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA PAGE 007

SMITH  
EMPLOYEES LIVING WITHIN THE COUNTY TOTAL  
ACTIVE EMPLOYEES 03-31-80  
RUN DATE 07/29/80  
REPORT 18  
RUN TIME 125018

	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	16	10	3	1	9
HOUSE RENTED	7	3	9	4	1	3	10
APARTMENT RENTED	0	0	0	0	0	5	5
MOBILE HOME RENTED	2	2	4	4	0	6	8
MOBILE HOME OWNED	6	1	1	0	1	2	8
SLEEPING ROOM	0	0	0	0	0	1	1
MOTEL							
OTHER	1	0	0	0	0	0	1
TOTAL	24	12	30	18	5	18	42
HOURLY EMPLOYEES							
HOUSE OWNED	31	20	48	23	16	1	32
HOUSE RENTED	28	12	37	16	6	5	33
APARTMENT RENTED	2	0	2	0	0	5	7
MOBILE HOME RENTED	13	5	14	6	0	13	26
MOBILE HOME OWNED	38	13	45	16	5	13	51
SLEEPING ROOM	0	0	0	0	0	4	4
MOTEL	0	0	0	0	0	1	1
OTHER	5	2	6	4	0	4	9
TOTAL	117	52	152	65	27	46	163
ALL EMPLOYEES							
HOUSE OWNED	39	26	64	33	19	2	41
HOUSE RENTED	35	15	46	20	7	8	43
APARTMENT RENTED	2	0	2	0	0	10	12
MOBILE HOME RENTED	15	7	18	10	0	19	34
MOBILE HOME OWNED	44	14	46	16	6	15	59
SLEEPING ROOM	0	0	0	0	0	5	5
MOTEL	0	0	0	0	0	1	1
OTHER	6	2	6	4	0	4	10
TOTAL	141	64	182	83	32	64	205

Table A-8

FOLLOW UP SURVEY  
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA PAGE 008

SUMMER  
EMPLOYEES LIVING WITHIN THE COUNTY TOTAL  
ACTIVE EMPLOYEES 03-31-80  
RUN DATE 07/29/80  
REPORT 18  
RUN TIME 125018

	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	153	87	221	111	45	9	162
HOUSE RENTED	11	4	8	5	2	2	13
APARTMENT RENTED	15	2	9	2	1	23	38
MOBILE HOME RENTED	1	1	1	1	0	1	2
MOBILE HOME OWNED	7	2	9	2	0	3	10
SLEEPING ROOM	1	1	3	2	0	1	2
MOTEL	1	0	2	0	0	0	1
OTHER	2	0	0	0	0	1	3
TOTAL	191	97	253	123	48	40	231
HOURLY EMPLOYEES							
HOUSE OWNED	97	63	160	88	28	5	102
HOUSE RENTED	57	25	87	36	11	9	66
APARTMENT RENTED	26	7	22	8	1	15	41
MOBILE HOME RENTED	5	2	4	2	0	11	16
MOBILE HOME OWNED	25	14	33	17	8	7	32
SLEEPING ROOM	1	0	0	0	0	3	4
MOTEL	2	0	4	0	0	0	2
OTHER	6	2	6	1	1	4	10
TOTAL	219	113	316	152	49	54	273
ALL EMPLOYEES							
HOUSE OWNED	250	150	381	199	73	14	264
HOUSE RENTED	68	29	95	41	13	11	79
APARTMENT RENTED	41	9	31	10	2	38	79
MOBILE HOME RENTED	6	3	5	3	0	12	18
MOBILE HOME OWNED	32	16	42	19	8	10	42
SLEEPING ROOM	2	1	3	2	0	4	6
MOTEL	3	0	6	0	0	0	3
OTHER	8	2	6	1	1	5	13
TOTAL	410	210	569	275	97	94	504



Table A-9

FOLLOW UP SURVEY  
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA PAGE 009

TROUSDALE  
EMPLOYEES LIVING WITHIN THE COUNTY TOTAL  
ACTIVE EMPLOYEES 03-31-80  
RUN DATE 07/29/80  
REPORT 18  
RUN TIME 125018

	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	3	10	3	0	0	6
HOUSE RENTED	8	2	8	5	1	1	9
APARTMENT RENTED	3	1	1	1	0	11	14
MOBILE HOME RENTED	1	1	0	1	0	2	3
MOBILE HOME OWNED	10	4	10	4	1	6	16
SLEEPING ROOM	0	0	0	0	0	1	1
MOTEL							
OTHER							
TOTAL	28	11	29	14	2	21	49
HOURLY EMPLOYEES							
HOUSE OWNED	20	9	30	15	5	1	21
HOUSE RENTED	32	18	45	20	13	8	40
APARTMENT RENTED	13	4	10	1	4	17	30
MOBILE HOME RENTED	32	12	42	20	9	19	51
MOBILE HOME OWNED	36	22	46	25	8	11	47
SLEEPING ROOM	1	0	3	0	0	5	6
MOTEL	1	1	2	2	0	7	8
OTHER	2	2	5	2	0	9	11
TOTAL	137	68	183	85	39	77	214
ALL EMPLOYEES							
HOUSE OWNED	26	12	40	18	5	1	27
HOUSE RENTED	40	20	53	25	14	9	49
APARTMENT RENTED	16	5	11	2	4	28	44
MOBILE HOME RENTED	33	13	42	21	9	21	54
MOBILE HOME OWNED	46	26	56	29	9	17	63
SLEEPING ROOM	1	0	3	0	0	6	7
MOTEL	1	1	2	2	0	7	8
OTHER	2	2	5	2	0	9	11
TOTAL	165	79	212	99	41	98	263

Table A-10

FOLLOW UP SURVEY  
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA PAGE 010

WILSON  
EMPLOYEES LIVING WITHIN THE COUNTY TOTAL  
ACTIVE EMPLOYEES 03-31-80  
RUN DATE 07/29/80  
REPORT 18  
RUN TIME 125018

	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	59	33	80	41	9	2	61
HOUSE RENTED	9	1	7	3	0	2	11
APARTMENT RENTED	5	2	2	2	0	6	11
MOBILE HOME RENTED							
MOBILE HOME OWNED	1	0	2	0	0	3	4
SLEEPING ROOM	1	1	2	2	0	0	1
MOTEL	0	0	0	0	0	1	1
OTHER	3	0	1	0	0	0	3
TOTAL	78	37	94	46	9	14	92
HOURLY EMPLOYEES							
HOUSE OWNED	45	31	75	36	21	0	45
HOUSE RENTED	22	14	33	17	10	9	31
APARTMENT RENTED	16	5	19	5	3	6	22
MOBILE HOME RENTED	5	3	5	4	0	1	6
MOBILE HOME OWNED	16	7	29	16	2	4	20
SLEEPING ROOM	1	0	0	0	0	0	1
MOTEL	0	0	0	0	0	2	2
OTHER	9	1	11	1	1	2	11
TOTAL	114	61	172	79	37	24	138
ALL EMPLOYEES							
HOUSE OWNED	104	64	155	77	30	2	106
HOUSE RENTED	31	15	40	20	10	11	42
APARTMENT RENTED	21	7	21	7	3	12	33
MOBILE HOME RENTED	5	3	5	4	0	1	6
MOBILE HOME OWNED	17	7	31	16	2	7	24
SLEEPING ROOM	2	1	2	2	0	0	2
MOTEL	0	0	0	0	0	3	3
OTHER	12	1	12	1	1	2	14
TOTAL	192	98	266	127	46	38	230

Table A-11

FOLLOW UP SURVEY  
 WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA PAGE 001

CARTHAGE  
 EMPLOYEES LIVING WITHIN THE CITY LIMITS  
 ACTIVE EMPLOYEES 03-31-80  
 RUN DATE 07/29/80  
 REPORT 1A  
 RUN TIME 125018

	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	3	0	0	0	1	1
HOUSE RENTED	2	2	6	3	1	3	5
APARTMENT RENTED	0	0	0	0	0	5	5
MOBILE HOME RENTED							
MOBILE HOME OWNED							
SLEEPING ROOM	0	0	0	0	0	1	1
MOTEL							
OTHER							
TOTAL	2	2	6	3	1	10	12
HOURLY EMPLOYEES							
HOUSE OWNED	6	3	6	3	2	0	6
HOUSE RENTED	4	3	7	6	0	1	5
APARTMENT RENTED	1	0	0	0	0	3	4
MOBILE HOME RENTED	1	0	2	0	0	4	5
MOBILE HOME OWNED	8	2	6	2	0	6	14
SLEEPING ROOM	0	0	0	0	0	2	2
MOTEL	0	0	0	0	0	1	1
OTHER	0	0	0	0	0	1	1
TOTAL	20	8	21	11	2	18	38
ALL EMPLOYEES							
HOUSE OWNED	6	3	6	3	2	1	7
HOUSE RENTED	6	5	13	9	1	4	10
APARTMENT RENTED	1	0	0	0	0	8	9
MOBILE HOME RENTED	1	0	2	0	0	4	5
MOBILE HOME OWNED	8	2	6	2	0	6	14
SLEEPING ROOM	0	0	0	0	0	3	3
MOTEL	0	0	0	0	0	1	1
OTHER	0	0	0	0	0	1	1
TOTAL	22	10	27	14	3	28	50

Table A-12

FOLLOW UP SURVEY  
 WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA PAGE 002

GALLATIN  
 EMPLOYEES LIVING WITHIN THE CITY LIMITS  
 ACTIVE EMPLOYEES 03-31-80  
 RUN DATE 07/29/80  
 REPORT 1A  
 RUN TIME 125018

	MOVERS WITH FAMILY	WITH CHILDREN IN SCHOOL	TOTAL NUMBER OF CHILDREN	CHILDREN IN GRADE SCHOOL	CHILDREN IN HIGH SCHOOL	MOVERS WITHOUT FAMILY	TOTAL MOVERS
<b>ANNUAL EMPLOYEES</b>							
HOUSE OWNED	42	19	52	23	6	5	47
HOUSE RENTED	3	2	3	2	0	0	3
APARTMENT RENTED	8	1	6	1	0	11	19
MOBILE HOME RENTED	0	0	0	0	0	1	1
MOBILE HOME OWNED	4	0	4	0	0	2	6
SLEEPING ROOM	0	0	0	0	0	1	1
MOTEL							
OTHER	0	0	0	0	0	1	1
TOTAL	57	22	65	26	6	21	78
<b>HOURLY EMPLOYEES</b>							
HOUSE OWNED	31	20	46	24	10	2	33
HOUSE RENTED	26	12	38	17	4	2	28
APARTMENT RENTED	13	5	15	5	1	5	18
MOBILE HOME RENTED	0	0	0	0	0	8	8
MOBILE HOME OWNED	8	4	9	3	3	1	9
SLEEPING ROOM	1	0	0	0	0	3	4
MOTEL	1	0	1	0	0	0	1
OTHER	3	1	3	1	0	3	6
TOTAL	83	42	112	50	18	24	107
<b>ALL EMPLOYEES</b>							
HOUSE OWNED	73	39	98	47	16	7	80
HOUSE RENTED	29	14	41	19	4	2	31
APARTMENT RENTED	21	6	21	6	1	16	37
MOBILE HOME RENTED	0	0	0	0	0	9	9
MOBILE HOME OWNED	12	4	13	3	3	3	15
SLEEPING ROOM	1	0	0	0	0	4	5
MOTEL	1	0	1	0	0	0	1
OTHER	3	1	3	1	0	4	7
TOTAL	140	64	177	76	24	45	185

Table A-13

FOLLOW UP SURVEY  
 WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA PAGE 003

HARTSVILLE  
 EMPLOYEES LIVING WITHIN THE CITY LIMITS  
 ACTIVE EMPLOYEES 03-31-80  
 RUN DATE 07/29/80  
 REPORT 1A  
 RUN TIME 125018

	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	4	1	0	0	2
HOUSE RENTED	3	2	7	5	1	0	3
APARTMENT RENTED	3	1	1	1	0	10	13
MOBILE HOME RENTED	0	0	0	0	0	1	1
MOBILE HOME OWNED	4	2	4	3	0	4	8
SLEEPING ROOM	0	0	0	0	0	1	1
MOTEL							
OTHER							
TOTAL	12	6	16	10	1	16	28
HOURLY EMPLOYEES							
HOUSE OWNED	9	5	14	7	3	0	9
HOUSE RENTED	19	12	26	14	9	6	25
APARTMENT RENTED	13	4	10	1	4	16	29
MOBILE HOME RENTED	20	6	22	10	2	16	36
MOBILE HOME OWNED	18	10	17	11	3	10	28
SLEEPING ROOM	1	0	3	0	0	5	6
MOTEL	1	1	2	2	0	3	4
OTHER	0	0	0	0	0	5	5
TOTAL	81	38	94	45	21	61	142
ALL EMPLOYEES							
HOUSE OWNED	11	6	18	8	3	0	11
HOUSE RENTED	22	14	33	19	10	6	28
APARTMENT RENTED	16	5	11	2	4	26	42
MOBILE HOME RENTED	20	6	22	10	2	17	37
MOBILE HOME OWNED	22	12	21	14	3	14	36
SLEEPING ROOM	1	0	3	0	0	6	7
MOTEL	1	1	2	2	0	3	4
OTHER	0	0	0	0	0	5	5
TOTAL	93	44	110	55	22	77	170

Table A-14

FOLLOW UP SURVEY  
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA PAGE 016

HENDERSONVILLE  
EMPLOYEES LIVING WITHIN CITY LIMITS  
ACTIVE EMPLOYEES 03-31-80

RUN DATE 07/29/80  
REPORT 10  
RUN TIME 125018

	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	2	7
HOUSE RENTED							
APARTMENT RENTED	7	1	3	1	1	10	17
MOBILE HOME RENTED							
MOBILE HOME OWNED							
SLEEPING ROOM							
MOTEL							
OTHER							
TOTAL	12	3	9	3	2	12	24
HOURLY EMPLOYEES							
HOUSE OWNED	16	12	30	20	6	0	16
HOUSE RENTED	6	3	10	2	3	0	6
APARTMENT RENTED	9	2	7	3	0	9	18
MOBILE HOME RENTED							
MOBILE HOME OWNED	3	1	1	4	0	0	3
SLEEPING ROOM							
MOTEL							
OTHER	1	0	0	0	0	0	1
TOTAL	35	18	48	29	9	9	44
ALL EMPLOYEES							
HOUSE OWNED	21	14	36	22	7	2	23
HOUSE RENTED	6	3	10	2	3	0	6
APARTMENT RENTED	16	3	10	4	1	19	35
MOBILE HOME RENTED							
MOBILE HOME OWNED	3	1	1	4	0	0	3
SLEEPING ROOM							
MOTEL							
OTHER	1	0	0	0	0	0	1
TOTAL	47	21	57	32	11	21	68

Table A-15

FOLLOW UP SURVEY  
 WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA PAGE 004

LAFAYETTE  
 EMPLOYEES LIVING WITHIN THE CITY LIMITS RUN DATE 07/29/80  
 ACTIVE EMPLOYEES 03-31-80 REPORT 1A  
 RUN TIME 125018

	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	4	3	6	5	1	0	4
HOUSE RENTED							
APARTMENT RENTED	1	0	0	0	0	0	1
MOBILE HOME RENTED							
MOBILE HOME OWNED							
SLEEPING ROOM							
MOTEL							
OTHER							
TOTAL	5	3	6	5	1	0	5
HOURLY EMPLOYEES							
HOUSE OWNED	22	15	39	26	10	0	22
HOUSE RENTED	9	5	15	10	0	1	10
APARTMENT RENTED	5	3	8	4	0	0	5
MOBILE HOME RENTED	7	3	11	4	2	2	9
MOBILE HOME OWNED	0	0	0	0	0	1	1
SLEEPING ROOM	0	0	0	0	0	3	3
MOTEL	0	0	0	0	0	1	1
OTHER	0	0	0	0	0	1	1
TOTAL	43	26	73	44	12	9	52
ALL EMPLOYEES							
HOUSE OWNED	26	18	45	31	11	0	26
HOUSE RENTED	9	5	15	10	0	1	10
APARTMENT RENTED	6	3	8	4	0	0	6
MOBILE HOME RENTED	7	3	11	4	2	2	9
MOBILE HOME OWNED	0	0	0	0	0	1	1
SLEEPING ROOM	0	0	0	0	0	3	3
MOTEL	0	0	0	0	0	1	1
OTHER	0	0	0	0	0	1	1
TOTAL	48	29	79	49	13	9	57

Table A-16

FOLLOW UP SURVEY  
 WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA PAGE 005

LEBANON  
 EMPLOYEES LIVING WITHIN THE CITY LIMITS  
 ACTIVE EMPLOYEES 03-31-80  
 RUN DATE 07/29/80  
 REPORT 1A  
 RUN TIME 125018

	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	3	5	3	1	0	7
HOUSE RENTED	2	1	4	3	0	0	2
APARTMENT RENTED	4	1	1	1	0	6	10
MOBILE HOME RENTED							
MOBILE HOME OWNED	0	0	0	0	0	2	2
SLEEPING ROOM							
MOTEL	0	0	0	0	0	1	1
OTHER	2	0	1	0	0	0	2
TOTAL	15	5	11	7	1	9	24
HOURLY EMPLOYEES							
HOUSE OWNED	4	4	7	5	1	0	4
HOUSE RENTED	5	3	7	3	2	5	10
APARTMENT RENTED	10	1	9	1	1	3	13
MOBILE HOME RENTED	1	0	0	0	0	0	1
MOBILE HOME OWNED	3	1	6	0	1	2	5
SLEEPING ROOM	1	0	0	0	0	0	1
MOTEL	0	0	0	0	0	2	2
OTHER	3	0	2	0	0	0	3
TOTAL	27	9	31	9	5	12	39
ALL EMPLOYEES							
HOUSE OWNED	11	7	12	8	2	0	11
HOUSE RENTED	7	4	11	6	2	5	12
APARTMENT RENTED	14	2	10	2	1	9	23
MOBILE HOME RENTED	1	0	0	0	0	0	1
MOBILE HOME OWNED	3	1	6	0	1	4	7
SLEEPING ROOM	1	0	0	0	0	0	1
MOTEL	0	0	0	0	0	3	3
OTHER	5	0	3	0	0	0	5
TOTAL	42	14	42	16	6	21	63



Table A-17

FOLLOW UP SURVEY  
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA PAGE 017

NASHVILLE  
EMPLOYEES LIVING WITHIN CITY LIMITS  
ACTIVE EMPLOYEES 03-31-80

RUN DATE 07/29/80  
REPORT 10  
RUN TIME 125018

	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	2	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	2	3
TOTAL	3	0	2	0	0	9	12
HOURLY EMPLOYEES							
HOUSE OWNED	9	7	17	8	4	1	10
HOUSE RENTED	11	3	6	5	0	3	14
APARTMENT RENTED	11	3	7	4	0	2	13
MOBILE HOME RENTED	1	1	1	1	0	0	1
MOBILE HOME OWNED							
SLEEPING ROOM							
MOTEL	0	0	0	0	0	1	1
OTHER							
TOTAL	32	14	31	18	4	7	39
ALL EMPLOYEES							
HOUSE OWNED	11	7	19	8	4	2	13
HOUSE RENTED	11	3	6	5	0	3	14
APARTMENT RENTED	11	3	7	4	0	8	19
MOBILE HOME RENTED	1	1	1	1	0	0	1
MOBILE HOME OWNED							
SLEEPING ROOM							
MOTEL	0	0	0	0	0	1	1
OTHER	1	0	0	0	0	2	3
TOTAL	35	14	33	18	4	16	51

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.

Community Economics Projects  
2/23/77

Appendix C

TRAFFIC LEVEL DEFINED

Level 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 APPRENTICESHIP PROGRAM  
 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, 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. IF SO, SKIP TO QUESTION 2.  
\_\_\_\_\_ NO. 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



POOR ORIGINAL

