



**ORAU TEAM
Dose Reconstruction
Project for NIOSH**

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DOE Review Release 09/18/2019

**Bioassay for Subcontractor Construction
Trade Workers at the Savannah River Site
from 1972 to 1997**

ORAUT-RPRT-0094 Rev. 00
Effective Date: 09/13/2019
Supersedes: None

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New Total Rewrite Revision Page Change

PUBLICATION RECORD

EFFECTIVE DATE	REVISION NUMBER	DESCRIPTION
09/13/2019	00	New report initiated to provide fractions of claimants with external and internal monitoring data and who were subcontractor construction trade workers at the Savannah River Site between 1972 and 1997. Incorporates formal internal and NIOSH review comments. Training required: as determined by Objective Manager. Initiated by Roger L. Halsey.

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ACRONYMS AND ABBREVIATIONS

CTW	construction trade worker
DCAS	Division of Compensation and Support
DOE	U.S. Department of Energy
DOL	U.S. Department of Labor
EU	enriched uranium
HPAREH	Health Protection Annual Radiation Exposure History
HPRED	Health Protection Radiation Exposure Database
in.	inch
NIOSH	National Institute for Occupational Health and Safety
NOCTS	NIOSH-DCAS Claims Tracking System
ORAU	Oak Ridge Associated Universities Team
PRID	payroll identification number
sCTW	subcontracted construction trade worker
SRS	Savannah River Site
TLD	thermoluminescent detector
WBC	whole-body counts

1.0 INTRODUCTION

SC&A was tasked by the Advisory Board on Radiation and Worker Health to conduct a review of bioassay data completeness for construction trade workers (CTWs) at SRS, resulting in their report *Evaluation of Savannah River Site Subcontractor Bioassay Data Completeness* (SC&A 2017). The National Institute for Occupational Health and Safety (NIOSH) then issued its *Response to SC&A's Evaluation of SRS Subcontractor Bioassay Data Completeness* (NIOSH 2018). The SC&A report and the response cover the period from 1989 to 1998. This report is an extension of that response to cover the years between 1972 and 1997.

A sample set of 886 sCTWs was selected from the 6,097 individuals in NOCTS as of August 2018 who have a claim after working at SRS.

Each worker's records were researched to determine if the individual worker was monitored using WBCs, tritium bioassay by urine samples, non-tritium bioassay by urine samples, and external exposure monitoring by thermoluminescent detectors (TLDs). For each year the worker was employed at SRS, the monitoring records were reviewed to determine if they included external monitoring results, whole-body counts (WBCs), urine bioassay for tritium, and/or urine bioassay for all other radionuclides. Totals of each category were divided by the number of workers employed in that year to calculate the fraction for that category. For example, in 1972 there were 83 sCTWs employed and 68 of those or 82% were found to have external monitoring records.

The monitoring records were provided by SRS in response to claim requests and were stored in NOCTS claim documents. The NOCTS database includes employment ranges, which were also confirmed during the review of the records provided by SRS.

For each worker, each year they were employed was recorded. For WBCs, tritium bioassay by urine samples, non-tritium bioassay by urine samples, and external exposure results, the year was recorded if there were one or more monitoring records in that year. For some, the monitoring was in the years following employment. Monitoring data in the years prior to employment was assumed to be baseline monitoring and was not used.

2.0 PURPOSE

This report provides estimates of the numbers and fractions of sCTWs who were monitored by SRS for external and internal exposure during 1972 through 1997. These estimates were established from the number of claims in the NOCTS database in which one or more position descriptions met the definition of a CTW and then through a manual review of SRS dosimetry documents in which those claimants had records of external monitoring, WBC, and urine bioassay results within each year.

3.0 BIOASSAY SAMPLING PROGRAM

SRS implemented bioassay programs to cover 35 facilities that processed actinides, fission products, activation products, and tritium (WSRC 1993). During the years 1972 through 1997, SRS performed in vivo and in vitro sampling for radioactive material using both routine and special sampling.

3.1 ROUTINE BIOASSAY PROGRAM

The bioassay program was part of an overall strategy described as "Defense in Depth" and included the zero-intake policy, engineered and procedural controls, personal protective equipment, and surveillance. This surveillance included air monitoring, facility and personnel contamination surveys, and the routine bioassay program (ORAUT 2017a).

Under the Routine Bioassay Program, workers supplied urine samples and underwent whole-body and chest counts on a prescheduled, routine basis. Workers also supplied routine samples as requested when necessitated by working under Radiological Work Permits with bioassay requirements. Details on the analysis techniques and their detection efficiencies are available in ORAUT-TKBS-0003, *Savannah River Site* (ORAUT 2005).

A worker's enrollment in the Routine Bioassay Program was based on the radioactive hazards associated with the facility where the individual worked and the type of work the worker normally performed. Enrollment in the program was defined by building or specific operation and by the task, such as operators, laboratory personnel, supervisory personnel, etc.

The Routine Bioassay Program was not used at SRS to detect and assess the intake of radionuclides. It was a "final quality control check that exposure control measures and workplace monitoring programs worked" (ORAUT 2017b).

3.2 SPECIAL BIOASSAY PROGRAM

SRS designed its Special Bioassay Sampling Program to assess "inadvertent intakes" of radioactive material. Under this program, samples were required in response to unusual or unanticipated circumstances such as being involved in a contamination incident or from air sampling results.

All bioassay monitoring data obtained by SRS for the worker are requested in the claim process. These monitoring results do not indicate which were obtained under the Routine Bioassay Program or the Special Bioassay Program. However, a review of a dataset obtained by NIOSH from SRS that included all bioassay results for all workers and covered the years between 1991 and 2000 found that less than 5% of the samples were flagged as special bioassay samples. The greatest majority of the bioassay results provided by SRS for claimants were collected under the Routine Bioassay Program.

4.0 SUBCONTRACTOR CONSTRUCTION TRADE WORKERS

CTWs at SRS, also referred to as building trades workers, fit into two categories. The first consists of workers hired by the site prime contractor mostly in permanent employment, while the second consists of workers brought in temporarily and often for short periods to perform specific tasks. Many of the workers in the second category have repeat temporary employment at either SRS or other U.S. Department of Energy (DOE) sites. From the onset of construction at SRS workers in the first category were employed by DuPont or Westinghouse Savannah River Company (WSRC) while workers in the second category were employed by subcontractors such as B.F. Shaw Company, Miller-Dunn Electric Company, and North Brothers Company. In 1989, Bechtel Savannah River took over construction duties at SRS. Bechtel tended to use CTWs hired through subcontracted companies (ORAUT 2019).

4.1 DETERMINATION OF SUBCONTRACTED CONSTRUCTION TRADE WORKER STATUS

The NOCTS database includes claimant data such as name, social security number, position title, and the dates when they worked at the site. Employment start and end dates are kept in the database and in many cases include more than one period of work. The NOCTS database keeps one or more pairs of these dates for each claimant. The "position title" is populated by information supplied by the worker or by their survivor. There is only one "position title" for each claimant for each period worked and in many cases these included more than one job description. .

The NOCTS database also includes scanned copies of the documents from SRS and the U.S. Department of Labor (DOL) in response to claim requests. Documents in NOCTS include in most

cases references to the company that employed the worker or information that can be used to indicate if the worker was working for the prime contractor or for a subcontractor.

The full set of SRS claimants in the NOCTS database was reviewed to select those claimants who worked at the site for any amount of time between January 1, 1972, and December 31, 1997. As of August 2018, there were 6,097 such individuals. Note that in this report, the term “claimant” is used for the worker associated with the claim, not necessarily the person who initiated the claim. The person who initiated the claim and provided information about the worker, including their position, was in many cases a surviving spouse or child of the worker.

The position title field was used to select only those whose position title contained one or more of the CTW trades in ORAUT-OTIB-0081, *Internal Coworker Dosimetry Data for the Savannah River Site* (ORAUT 2019). This initial set of job types used to filter the claimants is in Table 4-1. Additional equivalent titles were added to this list such as journeyman, apprentice, truck driver, sheetmetal worker, and steel worker. The position titles were manually reviewed to select those workers where the position title contained alternate spellings, such as “iron worker” and “ironworker”.

Table 4-1. Construction trade crafts.

Construction trade crafts	Construction trade crafts
Boilermaker	Mason
Carpenter	Mechanic
Concrete worker	Millwright
Driver	Painter
Electrician	Pipe fitter
Heavy equipment operator	Rigger
Insulator	Roofer
Iron worker	Sheet metal worker
Laborer	Welder

In most cases, position titles covered many years and included multiple positions. The initial list was reduced by removing all claimants whose position titles included other positions, such as “operator,” “engineer,” or “procurement.” A partial list of other position titles in NOCTS is shown in Table 4-2. In addition, position titles were reviewed for words that indicated management. The list was reduced by removing all workers whose position titles included “supervisor,” “manager,” and similar terms. If the position title included multiple crafts, such as “electrician/sheet metal worker/welder,” that claimant was included in the list. If the position title included construction trade positions and nonconstruction trade positions such as “welder/HP” that claimant was not included. If the claimant changed jobs between 1972 and 1997 to one that did not meet these strictures, they were removed from the list. A total of 33 were removed who initially met the criteria but were found to have later job titles such as foreman or supervisor or to have changed to non-CTW occupations.

The list was compared to previously generated lists of workers that identified their types of employment. The list was reduced by removal of all workers who were previously identified to not be subcontractors.

Table 4-2. Example non-CTW occupations.

Other occupations	Other occupations
Quality Control	Manager
Security	Human Resources
Engineer	Supervisor
Clerical	Escort
Pilot	Laundry
Instructor	Health Physicist

The NOCTS documents were reviewed for each of the remaining claimants in the list. Previous research for ORAUT-OTIB-0081 identified that the payroll identification number (PRID) included a prefix code that indicated the worker’s employment status, and in some cases the craft. If the initial number in a PRID was a “2” for example, it indicated employment by the prime contractor. Numbers equal to or greater than “4” indicated that the worker was a subcontractor (ORAUT 2019). During the inspection of each worker’s NOCTS files, if the PRID indicated work for the prime contractor, or if the documents listed the employer as the prime contractor, that worker was removed from the review list.

Determination of sCTW status was based on multiple document reviews. The PRID can be determined from the observation of (1) the employee number as four or five digits and the Roll number (denoted as “r1” on the external dosimetry monthly or quarterly reports), (2) Roll 2 for prime contractor CTW, Roll 4, 5, or 6 for sCTW, and (3) the prefix or craft code as described in Table 4-3. Note that the crafts in Table 4-1 were used to select the sCTW claimants and the craft codes in Table 4-3 were used to interpret their monitoring records.

Table 4-3. Construction trade crafts with roll and craft codes.

Craft	Roll	Craft Code
Boilermaker	4	20
Carpenter	4	6
Concrete Worker (or cement worker or mason)	4	8
Driver	4	10
Electrician	4	25
Heavy Equipment Operator	4	14
Insulator	4	31
Ironworker	4	21
Laborer	4	5
Millwright	4	18
Painter	4	33
Pipefitter (or plumber)	4	26
Rigger (or Laborer)	4	5
Sheet Metal Worker	4	21

The standard way to determine a CTW is by use of the criterion as stated in ORAUT-OTIB-0081 as defined on the website for the DOE-funded Building Trades National Screening Program (ORAUT 2019, p. 33).

After all reviews, a final list of 886 sCTW claimants remained. Figure 4-1 below is a pie chart of the position titles that remained in the final list. This is an approximation because many position titles included more than one craft. For those, the first craft listed was used. For example, if the position title was “welder/pipefitter” the worker was counted as a “welder” in this pie chart. Similar position titles such as “laborer” and “construction worker” were also combined in this chart. Electricians and pipefitters make up almost half of the sCTW list. All individual position titles are shown in the list of sCTWs in Table B-1. These are the initial position titles and do not include all job periods. The

position titles for those who changed jobs before 1997 were reviewed to assure they met the definition of CTW.

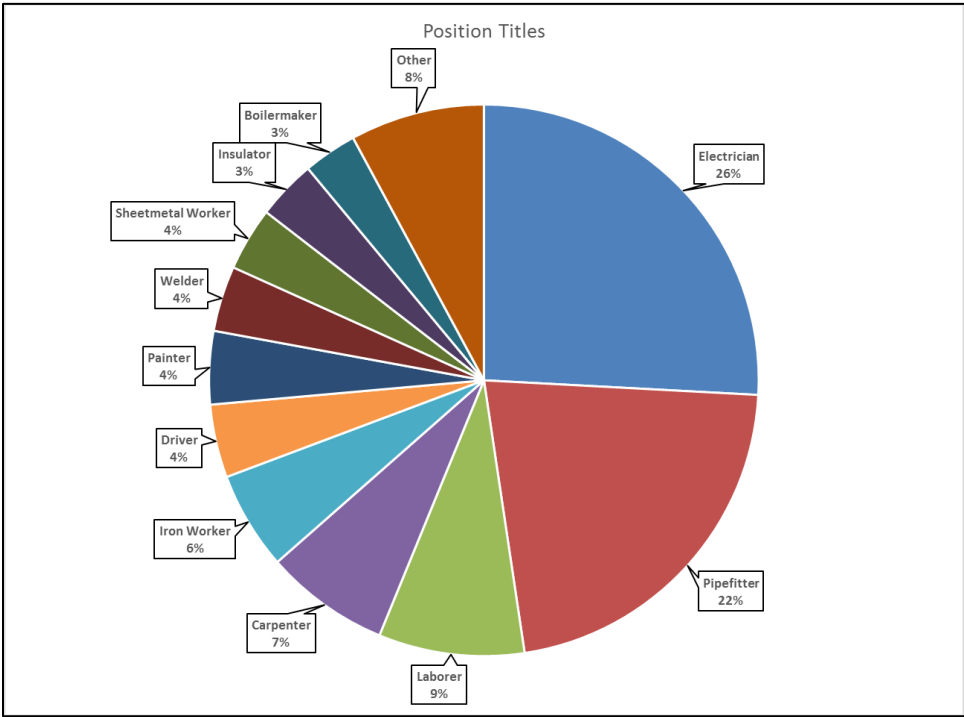


Figure 4-1. sCTW position titles.

These 886 claimants in the sCTW list were researched in NOCTS for their employment dates, the years they were monitored by WBCs and the years they were monitored by urine bioassay. The urine bioassay was counted in two categories, records of tritium results and records of any other nuclide results. For the external monitoring, WBC, tritium urine bioassay, and non-tritium urine bioassay, the year was flagged for any result within the year. For example, for each year the sCTW was employed if there were one or more tritium results within the year then that year was counted for that sCTW. All monitoring data obtained from the NOCTS records review and used in this report is provided in Attachment B as Table B-1.

4.2 CLAIMS TRACKING SYSTEM RECORDS

The analysis examined SRS dosimetry forms and database summary outputs from 1972 through 1997 for this report. Attachment A shows examples of reports of urine bioassay results, WBC results, chest counts, and TLD results.

4.2.1 Determination of the Employee Identification

From 1972 to 1987 the PRID numbers were present on the external dosimetry forms, but after 1989 Social Security Numbers were used on these forms for worker identification. For examples of the roll number and prefix or craft code, see Figure A-6 in Attachment A. Other data such as the date, primary work area, cycles, or quarter monitoring periods are also present on these forms. If the PRID number at any time during their employment indicated employment by the prime contractor, the worker was removed from the list.

4.2.2 Determination of the Employment Period

Employment date ranges are maintained in the NOCTS database. These were confirmed by review of claimant forms. The employment period can be found in the DOL initial report (Figure A-1) and in the cover letter provided by SRS in their dosimetry document. If these forms at any time during their employment indicated employment by the prime contractor, the worker was removed from the list.

4.2.3 External Dose Records

The Health Protection Radiation Exposure Database (HPRED) database was used by SRS starting in the 1990s to manage worker exposure data. Reports from the HPRED were used for 1991 and later years (Figure A-2).

An overall summary form (Figure A-3) and quarterly summary forms (Figure A-4) indicated the dates that external dosimetry was performed. The individual exposure records were listed in monthly or quarterly reports that varied during different years (Figures A-5 through A-9).

4.2.4 Urine Bioassay Records

The HPRED output form (Figure A-2) was found to contain tritium bioassay results listed by concentration along with external monitoring data.

Urine bioassay results for nuclides other than tritium were listed in a Non-tritium Bioassay Results report (Figure A-10) in the years 1972 and later.

Handwritten Employee Bioassay Cards (Figure A-11) were used in earlier years and can contain both tritium and non-tritium results. Acronyms used on these cards include: T = tritium, EU= enriched uranium, U = Uranium, Pu = plutonium, FPIA = fission products induced activity.

Tritium results were also found in summary reports used between 1986 and 1992 (Figure A-12).

The In Vitro Individual Monitoring report form (Figure A-13) contained both tritium and non-tritium results.

4.2.5 Whole-Body Count Records

The WBC reports varied in different years but always indicated the worker, dates, nuclides detected, including naturally occurring ⁴⁰K, along with the results (Figures A-14 through A-17). For some periods the employer was listed (See Figure A-16).

5.0 EVALUATION OF CLAIMS TRACKING SYSTEM DATA

The data SRS provided in response to a claimant request include the type of monitoring, the analytical results, and the dates the monitoring was performed. The documents do not include specific information on the locations or areas that person worked while at SRS. The graphs and percentages in this report provide a broad description of the fraction of sCTW workers who were monitored in a given year but do not indicate which, if any, of the workers might have been exposed and which, if any, would have been required under DOE orders to have bioassay monitoring.

SRS workers supplied urine samples and submitted to chest scans and WBCs on a prescheduled routine basis to be analyzed for tritium, plutonium, strontium, neptunium, uranium, EU, americium, curium, californium, and fission products / induced activity. Routine monitoring for tritium was as often as weekly, while monitoring for plutonium, strontium, neptunium, uranium, EU, americium, curium,

californium, and fission products / induced activity was typically annually or in some instances as infrequent as once every three years.

5.1 TABLE OF SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS

Table B-1 in Attachment B lists results for the 886 sCTW claimants from the review of SRS-supplied dosimetry records in NOCTS. The table is sorted by the first year employed and then alphabetically by craft. Where the contractor was not identified and the claimant remained in the list due to the Roll number in the PRID, the contractor is listed as "Const" indicating the Construction Division.

The table is coded for sCTWs with external monitoring, WBC, tritium, and non-tritium results for each year of employment as shown in the legend preceding the table in Attachment B. Some sCTW had monitoring data in years following the years they were employed with the majority of those being whole body scans.

An overall trend apparent in this Table B-1 is that sCTWs who have monitoring do not have internal monitoring records or do not have external monitoring records for the first year of employment. One hundred and fifty seven sCTW began their employment before 1972. For all 729 sCTWs who started employment between 1972 and 1997, 279 had internal monitoring records in their first year of employment and 353 had external monitoring records in their first year of employment. Most of these had monitoring records later in their employment. For all sCTW, 774 or 87% had internal records and 783 or 88% had external records. Only 67 of the total 886 sCTW claimants or 7.6% were found to have no monitoring records between 1972 and 1997 for either external or internal monitoring. Of those, 35 worked at SRS for less than 1 year.

The lack of internal monitoring records in the initial year of employment is partially due to the fact that internal monitoring was performed after the work in radiologically controlled areas. The routine bioassay frequencies for non-tritium urine and for WBC was annually or, in some cases for plutonium bioassay, longer. For routine sampling this would in many cases result in a sample more than a year after the work. Note, however, that any indication of internal uptakes such as a loss of containment or contamination found on a worker would have triggered the Special Bioassay Program and immediate sampling.

In Table B-1 is a column addressing whether the worker had internal monitoring within the last year they had external monitoring. SRS policies required the assignment of external dosimeters for all workers before entry of radiologically controlled areas (ORAUT 2005). Of all 886 sCTW, 274 worked at SRS after 1997 and only 612 had their last year of employment at SRS between 1972 and 1997. Of these, 474 or 77% had internal monitoring records during or after the last year they had external monitoring records.

5.2 NUMBERS OF WORKERS

Table 5-1 lists the numbers of all SRS workers with claims who were employed each year between 1972 and 1997 and the numbers of those sCTWs who were employed in those years. The numbers of all SRS workers with claims and sCTW with claims are shown in Figure 5-1. Both show similar growth and decline during these years. As the claimants are taken to be a representative sampling of the population of workers, the increases between 1972 and 1990 and the decline between 1990 and 1997 are taken to represent the overall increase and decrease of the site population during this time.

Note that the population of the sCTWs relative to the total number of claimants was not constant during these years. The number of sCTWs are 4% of the total SRS claimants in 1972, increasing to a maximum of 18% in 1986, and then decreasing to 9% by 1997. To compensate for these changes, all calculations were made relative to the number of sCTW employed in that year. For example, to

Table 5-1. All SRS workers with claims, sCTW, and sCTW with monitoring records.

Year	All SRS workers	sCTW workers	With external monitoring	With non-H3 bioassay	With H3 bioassay	With whole-body count	With internal monitoring	With external monitoring and with internal monitoring
1972	1942	83	68	46	26	1	55	49
1973	1974	84	68	60	21	0	65	56
1974	1997	101	77	28	18	1	42	36
1975	2093	139	101	46	25	0	63	58
1976	2159	140	111	42	31	1	61	56
1977	2270	182	117	5	42	2	45	44
1978	2407	254	165	9	43	3	51	47
1979	2408	262	179	21	47	8	69	59
1980	2448	271	203	141	56	2	166	146
1981	2497	297	244	169	116	3	200	175
1982	2457	286	198	143	111	9	188	152
1983	2576	334	237	148	125	25	205	179
1984	2684	403	250	153	113	14	199	168
1985	2832	486	304	191	99	17	236	192
1986	2739	487	354	225	93	24	264	228
1987	2689	464	341	211	89	175	316	264
1988	2758	468	351	165	88	278	361	278
1989	2999	483	412	130	156	250	352	306
1990	3062	509	478	151	245	418	451	431
1991	2974	434	416	271	219	362	395	388
1992	2844	371	348	265	170	316	347	334
1993	2694	336	279	172	136	284	312	273
1994	2213	268	179	120	44	212	223	168
1995	2133	249	160	95	38	193	203	147
1996	1802	191	140	81	36	123	150	125
1997	1702	161	126	77	37	81	115	103

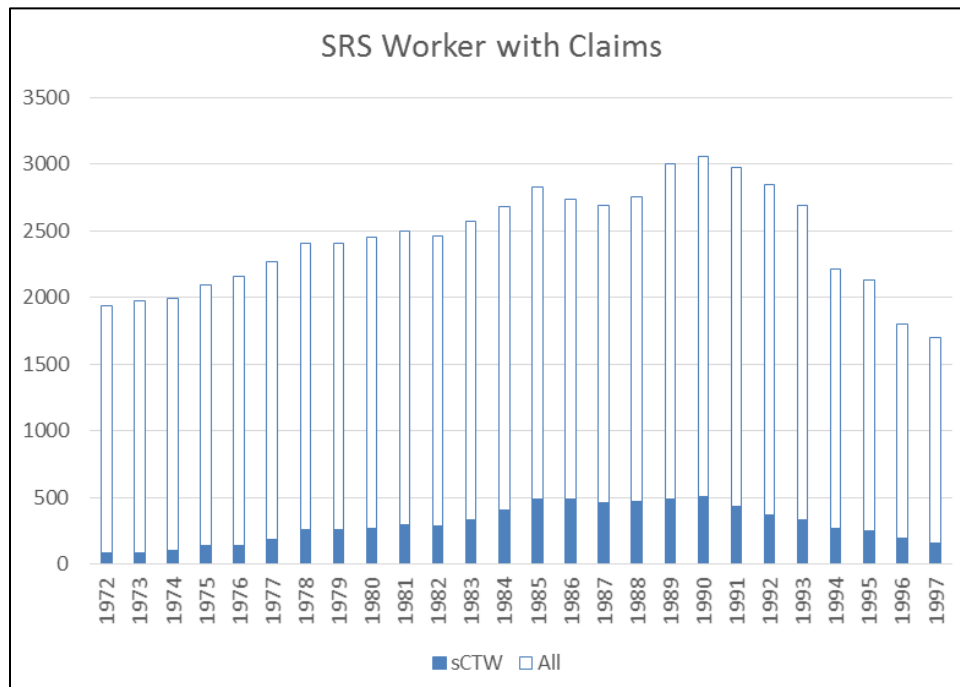


Figure 5-1. All SRS workers and sCTW with claims employed by year as of August 2018.

calculate the fraction of sCTWs with external monitoring records in 1972, the number found with external monitoring records, 68, was divided by the number employed, 83, to obtain the fraction 82% for the 1972 Fraction with External Records result in Table 5-2.

Table 5-2. Fractions of all SRS workers with claims that are sCTW and fractions of sCTW with monitoring records.

Year	sCTW fraction of all claims	Fraction of sCTW with external records	Fraction of sCTW with internal records	Fraction of sCTW with both
1972	4%	82%	66%	59%
1973	4%	81%	77%	67%
1974	5%	76%	42%	36%
1975	7%	73%	45%	42%
1976	6%	79%	44%	40%
1977	8%	64%	25%	24%
1978	11%	65%	20%	19%
1979	11%	68%	26%	23%
1980	11%	75%	61%	54%
1981	12%	82%	67%	59%
1982	12%	69%	66%	53%
1983	13%	71%	61%	54%
1984	15%	62%	49%	42%
1985	17%	63%	49%	40%
1986	18%	73%	54%	47%
1987	17%	73%	68%	57%
1988	17%	75%	77%	59%
1989	16%	85%	73%	63%
1990	17%	94%	89%	85%
1991	15%	96%	91%	89%
1992	13%	94%	94%	90%
1993	12%	83%	93%	81%
1994	12%	67%	83%	63%
1995	12%	64%	82%	59%
1996	11%	73%	79%	65%
1997	9%	78%	71%	64%

5.3 INTERNAL AND EXTERNAL MONITORING

Not all sCTWs were found to have had external monitoring records. The fractions of those with records in each year are listed in Table 5-2 and plotted in Figure 5-2. The fraction with external monitoring ranged between 62% in 1984 and 96% in 1991.

SRS practices required external dosimetry for workers entering areas controlled for exposure to radiation (ORAUT 2005). It is assumed that the population without any external monitoring were unlikely to have worked in areas that would have provided significant internal exposures. Note that external monitoring requirements were applied before work activities by issuing a TLD badge, and internal monitoring requirements were applied afterwards in the form of a urine bioassay sample or a WBC. Fractions of sCTW with monitoring records are calculated for all sCTW, listed in Table 5-2, and for only those sCTW with external monitoring records, listed in Table 5-3.

Figure 5-3 shows the fractions of sCTW claimants with internal monitoring records.

Requirements for routine bioassay were based on the areas and buildings the worker had entered. The requirements for special bioassay remained constant during the 1970s through the 1990s; special bioassay sampling was required for events suspected to have provided an increased risk of internal

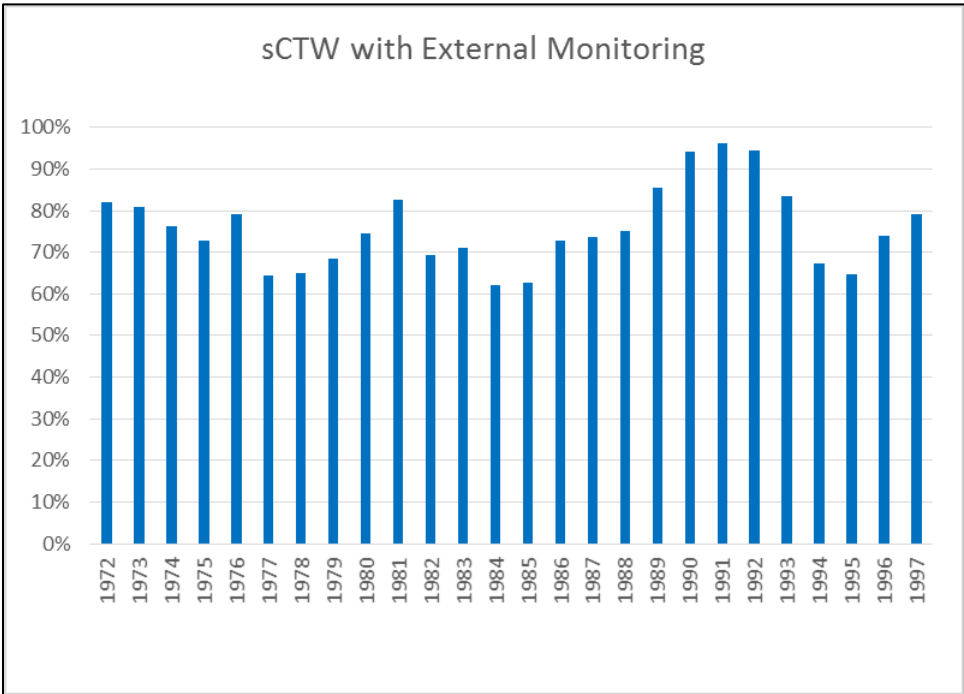


Figure 5-2. Fractions of sCTW with monitoring records calculated for all sCTW.

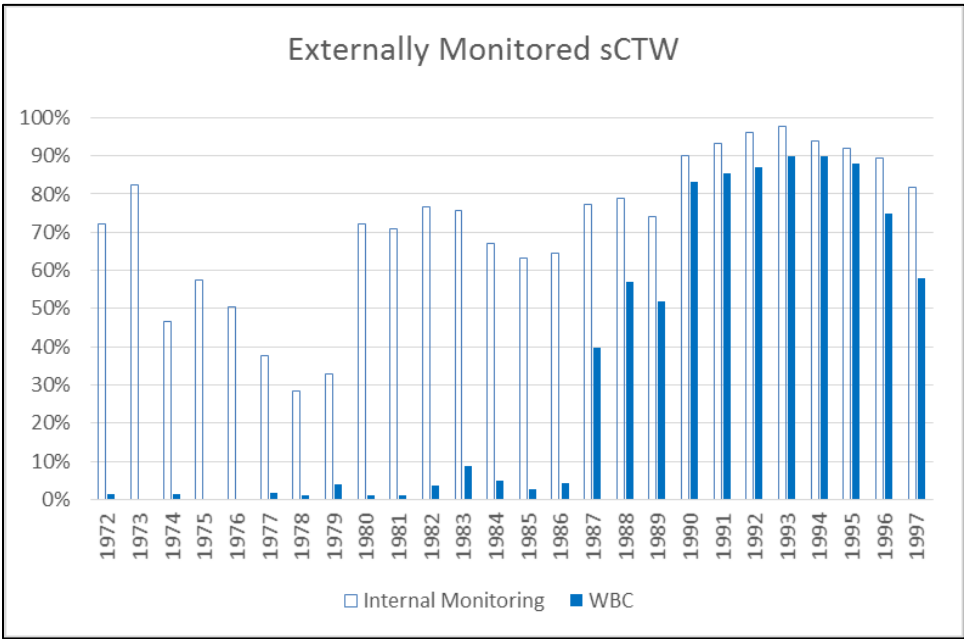


Figure 5-3. Externally monitored sCTWs with internal monitoring records and with WBC records.

exposure, such as a contamination event or a failure of protective measures. A discussion of the distinction between routine and special bioassay for sCTW at SRS between 1989 and 1998 can be found in NIOSH (2018).

SRS policies required the assignment of external dosimeters for all workers before entry of radiologically controlled areas (ORAUT 2005). Workers who would have been expected to work with materials with a potential for internal exposure would have already been issued TLDS.

Table 5-3. Fractions of externally monitored sCTWs with WBC urine bioassay for tritium and urine bioassay for non-tritium nuclides.

Year	Externally monitored	With internal	With WBC	With tritium bioassay	With non-H3 bioassay
1972	68	49 (72%)	1 (1%)	26 (38%)	40 (59%)
1973	68	56 (82%)	0 (0%)	21 (31%)	51 (75%)
1974	77	36 (47%)	1 (1%)	17 (22%)	23 (30%)
1975	101	58 (57%)	0 (0%)	25 (25%)	41 (41%)
1976	111	56 (50%)	0 (0%)	31 (28%)	38 (34%)
1977	117	44 (38%)	2 (2%)	41 (35%)	5 (4%)
1978	165	47 (28%)	2 (1%)	41 (25%)	8 (5%)
1979	179	59 (33%)	7 (4%)	44 (25%)	15 (8%)
1980	203	146 (72%)	2 (1%)	53 (26%)	121 (60%)
1981	244	175 (72%)	3 (1%)	109 (45%)	148 (61%)
1982	198	152 (77%)	7 (4%)	100 (51%)	116 (59%)
1983	237	179 (76%)	21 (9%)	119 (50%)	129 (54%)
1984	250	168 (67%)	12 (5%)	105 (42%)	126 (50%)
1985	304	192 (63%)	8 (3%)	89 (29%)	156 (51%)
1986	354	228 (64%)	15 (4%)	90 (25%)	196 (55%)
1987	341	264 (77%)	136 (40%)	87 (26%)	188 (55%)
1988	351	278 (79%)	201 (57%)	84 (24%)	141 (40%)
1989	412	306 (74%)	214 (52%)	153 (37%)	118 (29%)
1990	478	431 (90%)	399 (83%)	244 (51%)	145 (30%)
1991	416	388 (93%)	355 (85%)	218 (52%)	271 (65%)
1992	348	334 (96%)	303 (87%)	169 (49%)	264 (76%)
1993	279	273 (98%)	251 (90%)	136 (49%)	162 (58%)
1994	179	168 (94%)	161 (90%)	44 (25%)	109 (61%)
1995	160	147 (92%)	141 (88%)	38 (24%)	84 (53%)
1996	140	125 (89%)	105 (75%)	36 (26%)	72 (51%)
1997	126	103 (82%)	73 (58%)	37 (29%)	71 (56%)

Assuming that some sCTWs were not issued TLDs because their work did not require entry into radiologically controlled areas, the fractions with internal monitoring records were calculated for only those sCTW with external monitoring records within that year. These fractions, listed in Table 5-3, ranged from 28% in 1978 to 98% in 1993.

The fractions of externally monitored sCTWs with internal monitoring in Table 5-3 are higher than the fractions of all sCTWs with internal monitoring records in Table 5-2. These results provide better estimates of the potentially exposed sCTWs that were monitored.

5.4 WHOLE-BODY COUNTS, TRITIUM BIOASSAY, AND NON-TRITIUM BIOASSAY

The internal monitoring records were divided into three categories: WBCs, urine bioassay for tritium, and all other urine bioassay. Where the records included chest counts, for all cases reviewed they were concurrent with a WBC.

Calculating these fractions for only those workers with external monitoring records resulted in higher fractions for most years (Table 5-3). However, the changes were smaller than the overall trends and did not change these trends substantially.

At SRS, areas where tritium provided more than 10% of an expected exposure were limited to the reactors and tritium processing areas (Farrell and Findley 1999). WBC and chest counts do not detect tritium and are used to monitor intake of actinides, fission products, and activation products.

Grouping WBC and non-tritium bioassay data to estimate the fraction monitored is appropriate because workers in areas with non-tritium radionuclides may have been monitored by either method.

The fractions of sCTWs with either non-tritium or WBC within three years of the year employed divided by the numbers of sCTW with external monitoring within the year employed are presented in Table 5-4 and plotted in Figure 5-4. These fractions are significantly higher than those fractions of sCTWs with WBC or non-tritium bioassay within the same year. These fractions exceed 70% for 1979 through 1995 and exceed 90% for 1987 through 1995.

Table 5-4. Externally monitored sCTWs with WBC or non-tritium bioassay.

Year	WBC or non-tritium bioassay	WBC or non-tritium within 3 years
1972	40 (59%)	61 (90%)
1973	51 (75%)	59 (87%)
1974	23 (30%)	58 (75%)
1975	41 (41%)	60 (59%)
1976	38 (34%)	42 (38%)
1977	6 (5%)	15 (13%)
1978	9 (5%)	97 (59%)
1979	20 (11%)	145 (81%)
1980	122 (60%)	175 (86%)
1981	148 (61%)	195 (80%)
1982	120 (61%)	166 (84%)
1983	146 (62%)	200 (84%)
1984	130 (52%)	196 (78%)
1985	160 (53%)	249 (82%)
1986	201 (57%)	301 (85%)
1987	253 (74%)	316 (93%)
1988	259 (74%)	335 (95%)
1989	267 (65%)	399 (97%)
1990	417 (87%)	459 (96%)
1991	383 (92%)	405 (97%)
1992	330 (95%)	338 (97%)
1993	268 (96%)	273 (98%)
1994	166 (93%)	174 (97%)
1995	145 (91%)	153 (96%)
1996	124 (89%)	NA
1997	96 (76%)	NA

6.0 CONCLUSIONS

External monitoring records showed that the sCTW had been issued TLDs, a requirement prior to work in radiologically controlled areas. Although not all sCTW were found to have internal monitoring records for each year of employment at SRS, for the years after 1979, 63% or more of externally monitored sCTW had internal monitoring records. The lowest fraction of externally monitored sCTW with internal records was 28% in 1978. For the subset of internal monitoring records related to other radionuclides with longer biological residence times and longer monitoring periods than tritium, the fractions of externally monitored sCTW with either WBC or non-Tritium records are 52% or greater for the years after 1979 with the lowest fraction of 5% in 1977 and 1978.

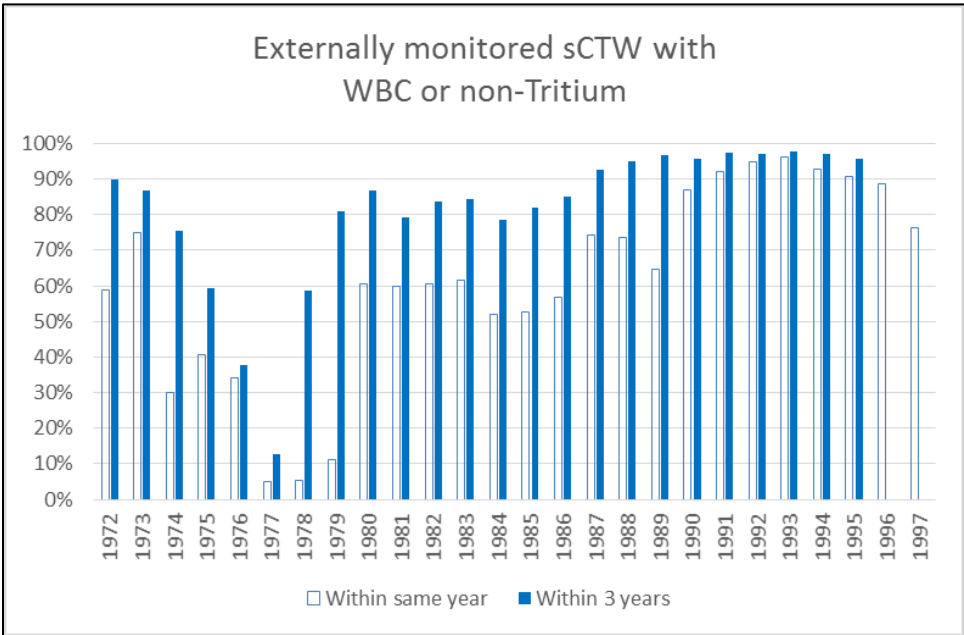


Figure 5-4. Externally monitored sCTWs, fractions monitored by WBC or nontritium bioassay.

All calculations were based on the numbers of workers with monitoring records in NOCTS. NOCTS records do not indicate which workers entered into radiologically controlled areas or had the potential for internal exposure.

An upper estimate of the sCTW who had the potential for internal exposure may be based on those sCTW with external monitoring records.

A review of the monitoring records from SRS for all sCTW claimants identified to have worked at the site between the years 1972 and 1997 found that the number of employed sCTWs increased and decreased similarly to the overall number of SRS workers.

These fractions are conservative estimates of the fractions of exposed workers that were monitored as not all sCTWs worked with radioactive materials, not all sCTWs who worked in radiologically controlled areas were internally exposed, and routine bioassay for non-tritium nuclides was not required within the same year as the exposure.

6.1 IMPACT TO DOSE RECONSTRUCTION

Dose is reconstructed for SRS workers by using either the monitoring results provided SRS or by using the coworker model based on those results. The monitoring results include those from special bioassay sampling which occurred whenever there was any suspected intake of radionuclides and from the routine bioassay sampling which was in place to confirm controls were working to prevent intakes. The greatest number of results were obtained from routine samples from the bulk of the SRS worker population. Dose reconstruction based on SRS monitoring records includes all monitoring data, including records of monitoring beyond employment dates.

Extended gaps in bioassay monitoring that precede bioassay results do not significantly affect the ability to perform dose reconstruction for certain SRS radionuclides, such as plutonium, due to the long biological retention times. Urine bioassay results obtained years after a plutonium uptake can be used to provide useful dose estimates. Using a three year span between the time of potential exposure and the time of the bioassay for non-tritium radionuclides significantly increases the fraction

of monitored sCTW, as shown in Figure 5-4. The fraction of monitored sCTW would increase for each year the span between employment and bioassay was increased.

6.2 DATA TRENDS

There are several clear trends in the data.

- Most sCTW had external monitoring records. Between 62% and 96% of the sCTW were found to have external monitoring records within the same year as employment.
- For externally monitored sCTW, a requirement prior to entry in radiologically controlled areas, the annual fractions of those with internal monitoring records ranged between 28% and 98%. The lowest fractions were in the latter 1970's and generally increased over time. Between 1972 and 1979 the average of the fractions is 51%, for the 1980's it is 72%, and for 1990 through 1997 it is 92%.
- The fraction of sCTWs who were monitored by WBC increased significantly in 1987 and remained at or above 70% for most of the 1990s.
- The fraction of sCTWs who were monitored by urine bioassay for tritium neither increased or decreased significantly, generally about 20% with the exceptions of the periods 1981 to 1984 when it approached 40% and 1990 to 1993 when it remained between 40% and 50%.
- For 1977, 1978, and 1979 the fractions of sCTW with external monitoring and with monitoring for non-tritium urine bioassay were significantly smaller, 4%, 5%, and 8%, respectively, than in the previous and following years. For the years between 1980 and 1997, the fractions did not significantly increase or decrease with smaller fractions in 1989 to 1990 and higher fractions in 1991 to 1992.
- Many sCTW did not have monitoring records during their first year of employment. One hundred and fifty seven sCTW began their employment before 1972. Of the 729 sCTW who started employment between 1972 and 1997, 450 or 62% did not have internal monitoring records and 376 or 52% did not have external monitoring records during their first year. For all sCTW, 87% had internal monitoring records and 88% had external monitoring records. Note that baseline internal monitoring for new employees was included in these data.
- Only 67 were found to have no internal or external records during their employment between 1972 and 1997. The remaining 819 of the total 886 sCTW or 92% had external or internal monitoring records during their employment.

The overall trend observed in these data is that the subcontractor construction trade workers who were monitored were represented as least as well as other SRS workers. The completeness of the data is more than adequate for dose reconstruction and for the basis of the SRS coworker model.

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**ATTACHMENT A
EXAMPLE FORMS IN RESPONSE DOCUMENTS**

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**ATTACHMENT A
EXAMPLE FORMS IN RESPONSE DOCUMENTS (continued)**

The following forms are from SNRS (2010).

Energy Employee Verified Employment History: (List all breaks in employment at the DOE or AWE Facility):	
a. Employer / Facility Name	M.K. Ferguson, Bechtel, and Savannah River Nuclear Solutions, at the Savannah River Site, Aiken, SC
b. Start Date	01/01/1988
c. End Date	11/20/2009 (Present)
d. Employment Badge Number	
e. Dosimetry Badge No.	
f. Job Title	Pipefitter / Welder

Figure A-1. DOL initial record.


Historical HPRED Mounted on SLHP3				
John Doe		123456789		
Year = 1991 (continued)				
<u>Dosimeter ID</u>	<u>Area</u>	<u>Cycle</u>	<u>Deep (mrem)</u>	<u>Shallow (mrem)</u>
21002573	J06	01	0	0
21006441	J06	02	0	0
21002573	J06	03	0	0
21006441	J06	04	0	0
21002573	J06	05	0	0
21006441	J06	06	10	10
21062633	K01	07	0	30
21002573	J06	07	0	0
21006441	J06	08	0	0
21002573	J06	09	0	0
21006441	J06	10	0	0
21002573	J06	11	0	0
21006441	J06	12	0	0
total =			10	40
Year = 1992				
<u>Sample date</u>	<u>Area</u>	<u>Result (µCi/L)</u>		
06-jan-1992	C	< 0.100		
<u>Dosimeter ID</u>	<u>Area</u>	<u>Cycle</u>	<u>Deep (mrem)</u>	<u>Shallow (mrem)</u>
21002573	J06	01	0	0
21073017	H05	10	15	15
21035256	H05	11	0	0
21069234	H05	12	0	0
total =			15	15
Year = 1993				
<u>Dosimeter ID</u>	<u>Area</u>	<u>Cycle</u>	<u>Deep (mrem)</u>	<u>Shallow (mrem)</u>
21040825	H05	01	0	0
21044766	H05	02	0	0
21041414	H05	03	0	0
21031977	H05	04	0	0
21062973	H05	05	0	0
21016511	H05	06	0	0
21038569	H05	07	0	0
21041309	H05	08	0	0
21016595	H05	09	0	0
total =			0	0

Figure A-2. HPAREH database output with both TLD and tritium results. Arrow indicates tritium results that were included on external dosimetry records.

ATTACHMENT A EXAMPLE FORMS IN RESPONSE DOCUMENTS (continued)

Individual Cycle History								Date: 01/04/10 Time: 4:03:54 PM			
** OFFICIAL USE ONLY **											
QUERY: ADM Individual External Monitoring History											
Note: 1973-1988 monthly results may include multiple dosimeter assignments 1973-1981 monthly whole body dose results include neutron results				** All results in mrems **							
Name SSN	User ID	Monitoring Year	Monitoring Cycle	Facility	Whole Body Dose	Skin Dose	Eye Dose	Neutron Dose			
123456789	Z1234	1990	4	J18	0	0					
			5	J18	0	0					
			6	H02	5	5					
			6	J18	5	5					
			7	J18	0	0					
			8	J18	0	0					
			9	J18	0	0					
			10	8M	0	0					
			11	J18	0	0					
			12	J18	0	0					
			Annual Total					10	30		0
			123456789	Z1234	1991	1	J18	0	0		
2	J18	0				0					
3	J18	0				0					
4	J18	5				5					
5	J18	0				0					
6	J18	5				20					
7	J18	20				20					
8	J18	20				20					
9	J18	0				0					
10	J18	0				0					
11	J18	0				0					
12	J18	0				0					
Annual Total					50	65					
123456789	Z1234	1992	1	J18	0	0					
			2	J18	0	0					
			4	J18	0	0					
			5	J18	0	20					

Figure A-3. External dose summary database output.

JUL 28 72 JOB# T41-10HEALTH PHYSICS DEPARTMENT QUARTERLY FILM BADGE PAGE NO: D193																
C	BADGE L	R FIX	PRE NUMBER	EMPLOYEE NUMBER	HPA DATE	CYCLE DATE	HPD DATE	EMPLOYEE NAME	CYCLE		QUARTER		YEAR		PLANT	
									DM	S	DM	S	DM	S	DM	S
				12345	000	0000	0672	000	185	185	405	405	405	405	415	405
					000	0000	0672	000			2175	395	2175	395	2,185	395
					000	0000	0672	000							10	
					000	0000	0672	000							10	
					01Z	0000	0672	000	10	10	320	320	530	530	9,220	5,495
					000	0000	0672	000	30	30	415	415	415	415	8,555	4,850
					05A	0000	0672	000	35	35	200	200	495	495	11,695	8,055
					000	0000	0672	000	150	150	365	335	365	335	3,330	2,130
					05A	0000	0172	000			70	70	70	70	70	70
					000	0000	0672	000							195	50
					12E	0000	0672	000	10		25		620	595	4,980	3,335
					09A	0000	0672	000							115	50
					02A	0000	0672	000			310	155	375	220	7,080	4,290
					05A	0000	0672	000	70	70	340	340	860	635	17,790	10,455
					02A	0000	0672	000	25	20	135	130	395	310	31,090	12,405
					000	0000	0672	000							7,390	5,605
					02A	0000	0672	000	95	95	505	500	930	920	17,195	10,790
					000	0000	0672	000			280	280	280	280	9,915	6,805
					01Z	0000	0672	P5W			10		120	10	14,520	8,015
					01Z	0000	0672	000	60	60	235	225	465	305	13,885	7,720
					000	0000	0672	000			105	25	155	70	11,925	6,105
					02A	0000	0672	000	60	50	2875	570	2945	600	26,015	14,600
					000	0000	0672	000	50	50	605	520	905	820	1,980	1,365
					01A	0000	0672	000	40	40	85	85	360	360	12,648	8,815
					05A	0000	0672	000							480	260
					02A	0000	0672	000	35	35	250	245	360	355	16,600	10,835
					01Z	0000	0672	000	70	60	365	355	460	450	24,100	9,370

Figure A-4. Quarterly dosimetry summary, 1972.

ATTACHMENT A EXAMPLE FORMS IN RESPONSE DOCUMENTS (continued)

96030 EXPOSURE SUMMARY REPORT BY ROLL & NAME THRU CYCLE 4, 1990										3-MAY-90 07:32:16				PAGE 295					
R L	PR FX	SS NO.	AR EA	DE PT	NAME	CYCLE				QUARTER		YEAR-TO-DATE				PLANT		(BTNT S TFFRM)	
						OM	S	NEUT	TRIT	OM	S	OM	S	NEUT	TRIT	OM	S	T	F
6	70	123456789	5M	40	J Doe	5	5	0	0	5	5	5	5	0	0	905	780	1Y	K
6	70		2M	40		0	0	0	0	0	0	20	5	0	0	25	10	N	
6	70		1A	40		0	0	0	0	0	0	10	10	0	0	300	115	1Y	X
6	70		7A	40		0	0	0	0	0	0	20	20	0	0	105	95	N	X
6	70		7A	40		0	0	0	0	0	0	0	0	0	0	1180	1060	1Y	
6	5		2M	40		20	10	0	0	20	10	110	95	0	0	110	95	1Y	X
6	70		1L	40		0	0	0	0	0	0	75	75	0	0	75	75	N	X
6	5		3F	40		0	0	0	0	0	0	0	0	0	0	0	0	N	XX
6	70		1L	40		15	15	0	0	15	15	95	95	0	0	1090	915	1Y	X
6	70		1M	40		0	0	0	0	0	0	0	0	0	0	1775	1260	1Y	
6	70		1L	40		0	0	0	0	0	0	5	5	0	0	760	725	1Y	X
6	70		1F	40		0	0	0	0	0	0	0	0	0	0	3245	2310	1Y	
6	70		7A	40		0	0	0	0	0	0	0	0	0	0	680	565	1Y	
6	70		1M	40		0	0	0	0	0	0	0	0	0	0	0	0	1Y	
6	70		3F	40		0	0	0	0	0	0	0	0	0	0	20	10	1Y	
6	70		1M	40		25	10	0	0	25	10	25	10	0	0	690	360	1Y	X
6	70		2M	40		0	0	0	0	0	0	5	5	0	0	270	200	N	X
6	70		1M	40		0	0	0	0	0	0	380	380	0	0	660	640	1Y	
6	70		2M	40		0	0	0	0	0	0	0	0	0	0	10	0	N	X
6	70		3F	40		0	0	0	0	0	0	0	0	0	0	25	0	1Y	
6	70		1M	40		0	0	0	0	0	0	0	0	0	0	6675	4540	1N	X
6	5		2M	40		20	5	0	0	20	5	60	45	0	10	390	300	Y	X
6	5		2M	40		0	0	0	0	0	0	0	0	0	0	0	0	Y	
6	70		2M	40		20	0	0	0	20	0	30	10	0	0	255	125	Y	
6	70		6M	40		0	0	0	0	0	0	0	0	0	0	80	50	1Y	
6	70		1K	40		175	175	0	15	175	175	665	650	0	45	1645	1600	1Y	X
6	70		2M	40		10	10	0	0	10	10	10	10	0	0	105	65	Y	
6	70		2M	40		0	0	0	0	0	0	30	30	0	0	315	150	1Y	X
6	5		2M	40		10	10	0	0	10	10	105	95	40	0	2655	1740	1Y	X
6	70		7A	40		0	0	0	0	0	0	0	0	0	0	470	460	1Y	
6	70		2M	40		0	0	0	0	0	0	0	0	0	0	0	0	Y	9
6	70		5F	40		0	0	0	0	0	0	0	0	0	0	715	390	1Y	
6	70		7A	40		0	0	0	0	0	0	0	0	0	0	660	560	1Y	
6	5		3F	40		0	0	0	0	0	0	0	0	0	0	0	0	1Y	
6	70		3F	40		0	0	0	0	0	0	0	0	0	0	205	135	1Y	
6	70		5F	40		0	0	0	0	0	0	20	20	0	0	430	220	1Y	X
6	5		7A	40		0	0	0	0	0	0	0	0	0	0	10	10	N	
6	5		3F	40		0	0	0	0	0	0	20	20	0	0	5215	4625	1Y	
6	5		2M	40		0	0	0	0	0	0	0	0	0	0	0	0	N	XX
6	70		2M	40		0	0	0	0	0	0	5	5	0	0	3695	1920	N	XX
6	5		7A	40		0	0	0	0	0	0	20	0	0	0	2835	2485	Y	
6	5		1C	40		0	0	0	0	0	0	0	0	0	0	15	15	1Y	X
6	70		2M	40		30	30	0	5	30	30	100	100	0	20	110	110	1Y	X
6	70		7A	40		5	5	0	0	5	5	5	5	0	0	200	170	1Y	
6	5		1A	40		0	0	0	0	0	0	0	0	0	0	2180	2120	1Y	
6	70		2M	40		0	0	0	0	0	0	0	0	0	0	0	0	N	XX
6	70		2M	40		0	0	0	0	0	0	0	0	0	0	5	5	Y	X
6	70		7A	40		0	0	0	0	0	0	0	0	0	0	45	10	1Y	
6	70		2M	40		0	0	0	0	0	0	0	0	0	0	205	155	1Y	
6	70		7A	40		0	0	0	0	0	0	25	10	0	0	950	935	Y	X
6	5		1C	40		0	0	0	0	0	0	0	0	0	0	60	10	1Y	
6	5		1K	40		10	10	0	0	10	10	20	20	0	0	145	90	1Y	X
6	70		1K	40		295	110	0	20	295	110	685	500	0	55	1320	1010	1Y	X
6	70		3F	40		0	0	0	0	0	0	0	0	0	0	25	10	1Y	

Figure A-9. External dose form, 1990.

ATTACHMENT A EXAMPLE FORMS IN RESPONSE DOCUMENTS (continued)

**** OFFICIAL USE ONLY

Page 1 Non-Tritium Bioassay Sample Results 26-jun-2002

Results For: **John Doe 123456789**

Dept	Bottle	Date	Rec Date	Type	Batch ID	Isotope	Result	Vol
E5229	01/09/1992	01/17/1992	01/17/1992	Routine	03-92-145	Sr 90 <	0.010 nCi/L	911
E5229	01/09/1992	01/17/1992	01/17/1992	Routine	03-92-145	Pu 238 <	0.030 dpm/L	911
E5229	01/09/1992	01/17/1992	01/17/1992	Routine	03-92-145	Pu 239 <	0.030 dpm/L	911
E5229	07/21/1992	07/28/1992	07/28/1992	Routine	08-92-083	Sr 90 <	0.010 nCi/L	1014
E5229	07/21/1992	07/28/1992	07/28/1992	Routine	08-92-084	EU <	0.910 dpm/L	1014
E5229	11/08/1992	11/12/1992	11/12/1992	Routine	11-92-101	Sr 90 <	0.010 nCi/L	1017
E5229	11/08/1992	11/12/1992	11/12/1992	Routine	11-92-102	EU <	0.900 dpm/L	1017
E5229	01/19/1993	01/27/1993	01/27/1993	Routine	03-93-019	Pu 238 <	0.020 dpm/L	1040
E5229	01/19/1993	01/27/1993	01/27/1993	Routine	03-93-019	Pu 239 <	0.020 dpm/L	1040
E52640	NBD	01/14/1994	01/14/1994	Routine	01-94-114	Pu 238 <	0.030 dpm/L	1029
E52640	NBD	01/14/1994	01/14/1994	Routine	01-94-114	Pu 239 <	0.024 dpm/L	1029
E52EX0	01/14/1995	01/23/1995	01/23/1995	Routine	01-95-402	Sr 90 <	1.646 pCi/L	816
E52EX0	01/14/1995	01/23/1995	01/23/1995	Routine	01-95-401	Pu 238 <	0.043 dpm/L	816
E52EX0	01/14/1995	01/23/1995	01/23/1995	Routine	01-95-401	Pu 239 <	0.035 dpm/L	816
E52CF0	NBD	07/17/1995	07/17/1995	Routine	07-95-396	Pu 238 <	0.043 dpm/L	1032
E52CF0	NBD	07/17/1995	07/17/1995	Routine	07-95-396	Pu 239 <	0.032 dpm/L	1032
E52CF0	NBD	01/23/1996	01/23/1996	Routine	01-96-465	Sr 90 <	1.174 pCi/L	846
E52CF0	NBD	01/23/1996	01/23/1996	Routine	01-96-464	Pu 238 <	0.067 dpm/L	846
E52CF0	NBD	01/23/1996	01/23/1996	Routine	01-96-464	Pu 239 <	0.047 dpm/L	846
E52CF0	07/08/1996	07/10/1996	07/10/1996	Routine	07-96-351	Pu 238 <	0.044 dpm/L	882
E52CF0	07/08/1996	07/10/1996	07/10/1996	Routine	07-96-351	Pu 239 <	0.026 dpm/L	882
E52CF0	12/10/1996	12/30/1996	12/30/1996	Other	01-97-331	Sr 90 <	2.944 pCi/L	715
E52CF0	12/10/1996	12/30/1996	12/30/1996	Other	01-97-330	Pu 238 <	0.057 dpm/L	715
E52CF0	12/10/1996	12/30/1996	12/30/1996	Other	01-97-330	Pu 239 <	0.054 dpm/L	715
E52CF0	12/10/1996	12/30/1996	12/30/1996	Other	01-97-327	Am 241 <	0.048 dpm/L	715
E52CF0	12/10/1996	12/30/1996	12/30/1996	Other	01-97-327	Cf 252 <	0.017 dpm/L	715

Figure A-10. Non-tritium urine bioassay results, 1972 to 1997.

EMPLOYEE BIOASSAY CARD

DATE	ELEMENT	RESULT	LOCATION	DATE	ELEMENT	RESULT	LOCATION
1-14-83	T	LO	P	3-13-84	Pu	<0.1	F
1-15-84	F	LO	R	6-12-86	T	0.4	P
1-16-84	T	LO	R	6-12-86	T	0.7	P
2-3-84	T	LO	R	6-15-86	T	1.0	P
2-14-84	T	LO	R	5-27-86	Pu	<0.1	F
3-23-84	T	LO	K	6-17-86	T	0.7	P
3-27-84	F	LO	K	6-23-86	T	0.2	P
3-28-84	F	LO	K	6-23-86	T	1.0	P
4-17-84	T	LO	K	7-13-86	T	0.2	P
6-26-84	T	LO	K	7-13-86	T	0.2	P
7-24-84	T	LO	G	9-8-86	T	LO	P
12-9-84	FP	<0.1	K	8-10-86	T	LO	P
12-9-84	238	<0.1	K	8-13-86	Pu 238	<0.1	F
14-3-84	239	0.09	K	8-13-86	Pu 239	<0.1	F
10-29-84	T	LO	K	1-22-87	Pu	<0.1	F
11-24-85	T	LO	K	1-25-87	FP	<0.1	F
12-10-85	Pu 239	2.14	C	1-25-87	Pu 238/239	LO	F
12-10-85	Pu 238	2.04	C	2-3-88	FP	<0.1	F
12-10-85	FP	<1	C	2-3-88	Pu 238	<0.1	F
2-4-86	FP	<1	C	2-3-88	Pu 239	<0.1	F

COMMENTS: #12, 13 data received
#17-19 batch dates

John Doe 6-12345

Figure A-11. Bioassay card.

ATTACHMENT A EXAMPLE FORMS IN RESPONSE DOCUMENTS (continued)

LAST NAME & INITIALS:		SS NO.:		3-FEB-92		ROLL: 4						
HPA: 175		DATE RECORD CREATED:		3-FEB-92								
PRIOR YEAR SAMPLE DATE: 12/ 5/90		CONCENTRATION: 0.1		MREM: 0								
TRITIUM URINE CONCENTRATIONS & AREAS WHERE SAMPLES WERE SUBMITTED												
DAY	CYC 1	2	3	4	5	6	7	8	9	10	11	12
1					91							
2												
3												
4					0.1 K							
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
CAUTION: THE TLD FLUO IS DOWN !												
EMPLOYEE SUBMITTED MORE THAN ONE SAMPLE ON THE SAME DAY AS FOLLOWS:												
DATE FACTOR CONC. AREA												

Figure A-12. Bioassay summary report, tritium concentration by location, 1986 to 1992.

Individual In Vitro Monitoring

QUERY: ADM Individual In Vitro Monitoring History

Name SSN	User ID	Sample ID	Sample Void Date	Sample Receive Date	Facil	Isotope	LLD Ind	Result	Result Units	Re- Run Result	Activity	Detect Level	Error	Sample Type	
John Doe 123456789	Z1234	07/22/1991			P	H3		0.100		0.000				R	
		07/26/1991			L	H3	<	0.100		0.000				R	
		08/02/1991			P	H3		0.300		0.200				R	
		08/06/1991			L	H3	<	0.100		0.000				R	
		08/14/1991			P	H3		0.200		0.000				R	
		08/16/1991			P	H3		0.100		0.000				R	
		08/17/1991			P	H3		0.200		0.000				R	
		08/28/1991			K	H3		0.100		0.000				R	
		09/10/1991			P	H3		0.100		0.000				R	
		09/10/1991			K	H3	<	0.100		0.000				R	
		09/21/1991			P	H3		0.200		0.000				R	
		12/09/1991		12/12/1991		K	Pu-238		-0.040	dpm/L					ROUTINE
		12/09/1991		12/12/1991		K	Pu-239		-0.030	dpm/L					ROUTINE
		12/09/1991		12/12/1991		K	Sr-90		-0.010	nCi/L					ROUTINE
		12/26/1991				P	H3		0.200		0.000				R
		01/10/1992				C	H3	<	0.100		0.000				R

Figure A-13. Individual in vitro summary form.

**ATTACHMENT A
EXAMPLE FORMS IN RESPONSE DOCUMENTS (continued)**

DATE 12/20/78 *BNM*
 TIME 1650

NAME
 PR#

LOCN 221F
 DEPT CONST.
 AGE 50
 SEX MALE
 REQU ~~ROUTINE~~ *Special*

HT 69.5
 WT 209
 C THKS 2.6

CH#	6-10	7-14	15-22	23-29	30-40	45-55	60-70
GROS +	3165	+14447	+18959	+16119	+12217	+13802	+ 9490
BKGD +		+13394	+17315	+14841	+11928	+13830	+ 8625
NET +	3165	+ 1052	+ 1645	+ 1278	+ 289	- 26	+ 805
CALC +		+ 1182	+ 1843	+ 1427	+ 810	+ 712	+ 458
DIFF +		- 130	- 198	- 149	- 521	- 739	+ 406

CH#	71-80	81-91	92-102	103-117	118-129	130-154	155-175	176-199
GROS +	4394	+ 4386	+ 3547	+ 3812	+ 2607	+ 5417	+ 2102	+ 1427
BKGD +	4141	+ 4130	+ 3328	+ 3856	+ 2213	+ 4455	+ 2293	+ 1405
NET +	251	+ 256	+ 217	- 43	+ 393	+ 963	- 131	+ 21
CALC +	244	+ 243	+ 244	+ 332	+ 164			
DIFF +	7	+ 12	- 26	- 376	+ 229			

CH#	29-45	46-96	97-133	134-180	181-256
GROS +	389	+ 1484	+ 1495	+ 1886	+ 1987
BKGD +	187	+ 356	+ 390	+ 530	+ 504
NET +	201	+ 1128	+ 1105	+ 1355	+ 1482
CALC +	159	+ 1056	+ 1019	+ 1298	
DIFF +	42	+ 71	+ 85	+ 56	

GM K + 96
 NCI C5-137 + 1.69

Figure A-14. WBC report, 1978.

**ATTACHMENT A
EXAMPLE FORMS IN RESPONSE DOCUMENTS (continued)**

```

SAVANNAH RIVER PLANT
IN VIVO COUNT RESULTS

NAME      REPT.  CORST  HEIGHT  68.00  SSN
PR#       LOCATION  772-F  HEIGHT  197.0
DATE 26-JUL-88  AGE  30  CHEST WALL (CM)  3.4 CALC.
TIME 15:34  SEX  M  CT TIME (SEC)  1800
SPECIAL COUNT  CALIBRATION - HPR-80-215, HPR-80-216

WHOLE BODY COUNT (NAI)                                MDA @95%CL

NUCLIDE  ENERGY(MEV)  GROSS  BKGD  NET  CALC  DIFF  COUNTS  NCI
CE-144  0.104 - 0.143  8218.  7046.  1172.  1214.  -42.  426.  18.
CR-51   0.290 - 0.349  9140.  8161.  979.  640.  339.  439.  14.
I-131  0.334 - 0.400  7795.  6894.  901.  534.  367.  404.  20.
RU-106  0.449 - 0.539  7147.  6788.  359.  408.  -129.  400.  11.
CS-137  0.625 - 0.704  4661.  4361.  300.  349.  96.  387.  9.
ZRNB-95 0.710 - 0.800  3894.  3489.  405.  313.  82.  258.  5.
ZN-65   1.050 - 1.160  3090.  2695.  395.  380.  79.  276.  2.
CO-60   1.105 - 1.250  3522.  3063.  459.  339.  -135.  244.  3.
CO-60   1.250 - 1.375  2543.  2339.  204.  339.  -135.  244.  3.
K-40    1.344 - 1.534  4801.  3447.  1354.

      NCI K-40 = 133.      NCI CS-137 = 0.17

CHEST COUNT (NAI/CSI)

EMISSION  ENERGY  GROSS  BKGD  NET  CALC  DIFF  DL
L X RAY  0.014 - 0.022  266.  119.  147.  161.  -14.  39.
          0.022 - 0.047  1228.  404.  824.  929.  -105.  86.
AM-241  0.048 - 0.066  1436.  434.  1002.  1017.  -15.  89.
          0.066 - 0.089  1700.  590.  1110.  1206.  -96.  99.
K SCATTER 0.090 - 0.127  2104.  711.  1393.

NUCLIDE  MDA @95% CL (NCI)
AM-241  0.21
PU-239  79.
PU-238  40.
CM-244  50.
    
```

Figure A-15. WBC report, 1988.

ATTACHMENT A EXAMPLE FORMS IN RESPONSE DOCUMENTS (continued)

CANNBERRA/RMC ABACOS-II		Routine Count Report		printed: 30-APR-90 10:42:56	
name last:		first:		middle:	
payroll number: 0000		operator: [300,001] R. A. LOFER		file number: 37397. input: 1	
social security / ID:		age (yrs.):		CENTRAL SHOPS	
counted: 30-APR-90 10:37:40		weight (lbs.):		showered before count: N	
department: OC		height: ins.		wore special clothing for count: N	
location: F		sex:			
comments: BECHTEL				(S&P CUSTOM)	
Final Whole Body Count Results (Nuclide Analysis)					
nuclide	activity (nCi)	% error (2.0 SD)	burden (%)	critical organ	comments
K-40	124.1	16.7	0.0	TBODY	
totals 124.1 0.0					
total % burden lung: 0.0 G.I.: 0.0 total body: 0.0 thyroid: 0.0 other: 0.0					

Figure A-16. WBC report, 1990. Arrow indicates the employer.

**ATTACHMENT A
EXAMPLE FORMS IN RESPONSE DOCUMENTS (continued)**

ABACOS-Plus		Printed: 8-OCT-1997 13:26:49. Page: 1						
Subject name: Work Location: F-SEP Counter Location: 735-4B Reason: Routine Count type: Individual Height: 68.000 Sex: Male CWT: 3.3639 Comment: ROUTINE CHEST COUNT		Identification #: Count Started: 8-OCT-1997 13:24:43. Intake Date: 8-OCT-1997 13:24:43. Frequency: Operator: KWILLIAMS <i>KW</i> Weight: 185.00 Date of Birth: 24-JAN-1958						
Counter: FASTSCAN COUNTER Arrangement/Geometry: STD/FSSUM Detector: WHOLE BODY Analysis limits: 27 to 510		Facility: WESTINGHOUSE SAVANNAH RIVER CO. Elapsed Live Time: 0 00:02:00.00 Elapsed Real Time: 0 00:02:00.09 Count Rate: 80.05 93.61 0.00 0.00 0.00 0.00 0.00 0.00						
Peak Search Results for STD/FSSUM								
Nuclide	Energy (keV)	Activity (nCi)	%Error (2 SD)	%Gain	Fit	Area	Centroid (ch)	Comments
unknown?	510.96		143.4		0.70	53	134.01	
unknown?	511.85		133.3		0.71	56	134.24	
K-40	1460.96	108.	20.2	0.01	0.51	307	371.19	
Nuclide Results for STD/FSSUM								
Nuclide	Activity (nCi)	%Error (2 SD)	Comments					
K-40	108.	22.5						
totals:	108.							
Energy Calibration Performed: 28-SEP-1997 17:52:33 STD/FSSUM Efficiency Calibration Performed: 29-SEP-1997 05:09:30 Libraries Used: ND_WBC_LIB:INHALATION.WLB,ND_WBC_LIB:INHALATION.WLB,ND_WBC_LIB:INHALATION.WLB Background started: 30-SEP-1997 16:15:56 Analyses By: GAMMAM V1.2,PEAKEFF V2.2,ENBACK V1.5,NID V3.2,WMEAN V1.8,MINACT V2.5								
Reviewed by: <i>[Signature]</i>				Date: 10-8-97				

Figure A-17. WBC report, 1997.

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS**

Legend

Cell contains	Records found for that year
N	Non-tritium urine bioassay
W	WBC
T	Tritium urine bioassay
E	External Monitoring
nei	No External or Internal Monitoring
nd	No data

The following table includes a row for each sCTW with cells shaded for each year the worker was employed with one or more of the above indicators when monitoring records were found. The letter indicators and shaded cells describe all of the data found in the NOCTS records review and used for the tables and graphs in this report.

For example, if only tritium records were found, the indicator is T. But, if both tritium and non-tritium records were found for the sCTW worker in the same year, the indicator is NT. If external monitoring records, non-tritium records, and whole body count records were found, the indicator is ENW. If neither external monitoring records nor internal monitoring records were found in a year the worker was employed, the cell is shaded and contains no letter indicators. For some workers, monitoring data was found beyond the dates of employment. These are shown in the table in non-shaded cells.

The table also includes a column "Internal Monitoring Evaluation" with a statement of whether the worker was monitored internally by urine bioassay or WBC during their last year of external monitoring. The choices in this column are "NA - Employment after 1997," "NA - No External Monitoring," "No - External after Last Internal Monitoring," "No - External but No Internal Monitoring," "Yes - Internal after Last External Monitoring," or "Yes - Internal in Last Year of External Monitoring." There are a total of 612 sCTW with "Yes", 138 with "No", and 274 with "NA".

ATTACHMENT B SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)

Table B-1. sCTW claimants.

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Boilermaker	No - External but No Internal Monitoring	E	E	E	E	E	E	E	E	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Boilermaker	Yes - Internal after Last External Monitoring	E	nd	nd	nd	E	nei	nei	nei	nei	nei	N	nei	E	N	nei	E	EW	E	EW	nei	EW	ENWT	ENWT	EWT	N	nei
Carpenter	Yes - Internal after Last External Monitoring	nei	EN	EN	E	EN	ET	E	ET	EN	ENT	ENT	ENT	ET	ENT	N	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Carpenter	Yes - Internal in Last Year of External Monitoring	E	EN	E	EN	E	E	E	E	EN	EN	E	EN	E	EN	EN	W	ENWT	ET	ENWT	nd	nd	nd	nd	nd	nd	
Carpenter	Yes - Internal in Last Year of External Monitoring	ENT	ET	EN	EN	EN	ET	ET	E	ENT	E	ET	ENT	ENT	EN	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Carpenter	Yes - Internal after Last External Monitoring	E	E	E	E	E	E	E	E	E	E	ENT	E	ENT	ENT	EN	EN	ENW	E	EW	EW	ENW	W	nd	nd	nd	
Carpenter	Yes - Internal in Last Year of External Monitoring	nei	nei	nei	nei	nei	E	E	E	E	E	E	E	E	E	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Carpenter	Yes - Internal in Last Year of External Monitoring	E	EN	E	ENT	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Carpenter	Yes - Internal in Last Year of External Monitoring	EN	E	EN	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Carpenter	NA - Employment after 1997	ET	EN	E	EN	ET	ET	ET	ET	EN	ENT	E	EN	NT	ENT	ET	E	EW	EN	EW	EWT	ENW	ENWT	ENWT	ENW	ENW	
Concrete	No - External after Last Internal Monitoring	EN	E	E	ET	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Construction Worker	No - External after Last Internal Monitoring	EN	EN	E	E	E	E	E	E	EN	EN	ENW	EN	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Driver	Yes - Internal after Last External Monitoring	EN	EN	E	EN	E	E	E	E	ENT	N	N	N	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Electrician	Yes - Internal in Last Year of External Monitoring	nei	nei	nei	nei	nei	nei	E	T	ENT	ENT	ET	nei	nei	nei	EN	ENT	EW	EN	EW	ENW	ENT	nd	nd	nd	nd	
Electrician	No - External after Last Internal Monitoring	E	ENT	E	ET	EN	E	E	E	EN	EN	ENT	ENT	ET	EN	ENT	ENW	E	nd	nd	nd	nd	nd	nd	nd	nd	
Electrician	No - External after Last Internal Monitoring	EN	EN	E	EN	ET	E	E	ET	N	EN	EN	EN	E	E	EN	ENW	ENW	E	E	nd	nd	nd	nd	nd	nd	
Electrician	No - External after Last Internal Monitoring	EN	EN	E	E	EN	E	E	E	NT	EN	N	nei	N	E	E	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Electrician	Yes - Internal in Last Year of External Monitoring	N	EN	EN	E	EN	E	E	nei	N	nei	N	nei	N	EN	EN	NW	ENW	EW	EW	nd	nd	nd	nd	nd	nd	
Electrician	NA - Employment after 1997	E	ENT	ET	EN	ENT	ET	ET	ET	E	E	ENT	nd	nei	nd	nd	nd	nd	EW	EWT	ENWT	EWT	E	EW	W	EW	
Electrician	Yes - Internal in Last Year of External Monitoring	ENT	ENT	ENT	ENT	ENT	ET	ET	ET	ENT	EN	EN	N	nei	N	N	N	EN	EW	nd	nd	nd	nd	nd	nd	nd	
Electrician	No - External after Last Internal Monitoring	E	EN	E	E	ENT	ET	E	E	EN	ENT	ENT	ENT	ENT	E	E	E	ENWT	E	E	E	nd	nd	nd	nd	nd	
Electrician	Yes - Internal in Last Year of External Monitoring	EN	EN	E	EN	EN	ET	E	E	EN	N	ENT	ENT	NT	ENT	E	EW	EW	E	ENWT	nd	nd	nd	nd	nd	nd	
Electrician	NA - Employment after 1997	ENT	ENT	E	ENT	nd	E	E	ET	ENT	ET	ENT	ENT	ENT	ENT	ENT	ENT	ET	ENWT	EWT	ENWT	EN	ENW	ENW	nd	nd	
Electrician	NA - Employment after 1997	ENT	ENT	ET	ENT	ET	ET	ET	ET	ET	ENT	ET	ENT	ENT	ENT	ENT	ENT	ET	E	nei	nei	nei	nei	nei	nei	nei	
Electrician	NA - Employment after 1997	E	ET	E	EN	ET	ET	ET	ET	EN	ENT	ENT	nei	nei	nei	ENW	EN	ENT	ENWT	ENWT	ENW	EW	ENWT	ENW	W	ENW	
Electrician	Yes - Internal in Last Year of External Monitoring	ENT	ENT	ET	ET	ENT	ET	E	E	EN	nd	nd	nd	nd	nd	nd	nd	nd	EW	EW	EWT	nd	nd	nd	nd	nd	
Electrician	Yes - Internal after Last External Monitoring	ET	EN	ENT	ET	ET	ET	E	ET	ET	ENT	ET	ENT	ENT	ET	ET	EW	ET	ET	EWT	ENWT	ENW	N	NW	nd	nd	
Heavy Equipment Operator	No - External after Last Internal Monitoring	EN	EN	E	E	E	E	E	E	EN	EN	EN	E	ET	EN	EN	EN	EW	ET	EW	ENWT	ENWT	ENWT	ENW	E	nd	

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Heavy Equipment Operator	No - External after Last Internal Monitoring	EN	EN	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Heavy Equipment Operator	NA - Employment after 1997	E	N	nd	nd	nd	E	E	E	E	ENT	E	E	E	E	nei	nd	EW	EW	EWT	ENW	ENWT	EWT	EW	ENW	ENT	ENWT
Heavy Equipment Operator	No - External after Last Internal Monitoring	EN	EN	EN	E	EN	E	E	E	E	nei	E	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Insulator	Yes - Internal in Last Year of External Monitoring	EN	EN	E	EN	ENT	ET	nei	nei	nei	E	N	N	N	N	E	N	EN	E	E	ENW	nd	nd	nd	nd	nd	
Insulator	Yes - Internal after Last External Monitoring	EN	EN	E	EN	E	E	E	E	N	nei	N	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Insulator	Yes - Internal in Last Year of External Monitoring	E	EN	E	EN	E	E	E	E	EN	EN	EN	ENT	ENT	EN	EN	ENW	ENW	E	EW	nd	nd	nd	nd	nd	nd	
Iron Worker	Yes - Internal in Last Year of External Monitoring	E	EN	nei	nei	nd	nd	nd	nd	nd	E	nd	nei	E	EN	E	E	N	EW	E	nd	nd	ENWT	nd	nd	nd	
Iron Worker	No - External after Last Internal Monitoring	EN	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Iron Worker	No - External but No Internal Monitoring	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Iron Worker	No - External after Last Internal Monitoring	nei	N	nei	nei	E	nei	E	E	N	E	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Laborer	Yes - Internal in Last Year of External Monitoring	EN	EN	E	nei	E	E	E	ET	ET	ENT	EWT	ENT	ENT	ENT	EWT	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Laborer	Yes - Internal in Last Year of External Monitoring	EN	EN	E	EN	E	ET	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Laborer	No - External after Last Internal Monitoring	EN	EN	E	E	E	E	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Laborer	Yes - Internal in Last Year of External Monitoring	N	N	N	nei	EN	nei	nei	nei	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Laborer	No - External after Last Internal Monitoring	N	EN	E	EN	EN	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Laborer/Pipefitter	Yes - Internal in Last Year of External Monitoring	ENT	ENT	ET	ET	ET	ET	E	E	ENT	EN	EN	E	ENT	E	EN	ENW	ENW	ENW	ENW	ENWT	ET	ENW	ENW	nd	nd	
Millwright	Yes - Internal after Last External Monitoring	EN	E	E	E	ET	ET	E	E	nei	N	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Millwright	No - External after Last Internal Monitoring	E	ET	ENT	E	E	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Millwright	NA - Employment after 1997	EN	nd	nd	ET	nd	nd	nd	ET	nei	ET	EN	ENT	EN	ET	ET	ENT	ENWT	E	ENW	ENWT	EN	N	N	N	N	
Painter	No - External after Last Internal Monitoring	EN	EN	E	EN	EN	E	ET	ET	ENT	ET	ENT	ENT	ENT	NT	ENT	ENT	nd	nd	ENWT	E	nd	nd	nd	nd	nd	
Painter	NA - Employment after 1997	E	nd	nd	nd	E	nd	nd	nd	nd	E	nd	nei	E	nei	nei	W	NW	nei	EW	ENW	ENW	EW	nd	nd	nd	
Painter	Yes - Internal in Last Year of External Monitoring	ENT	EN	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Painter	Yes - Internal after Last External Monitoring	EN	EN	ENT	E	E	E	E	ET	EN	ENT	EN	EW	ET	T	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Painter	NA - No External Monitoring	N	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	No - External after Last Internal Monitoring	nei	nei	nei	nei	nei	nd	nei	nei	nd	nd	nd	nd	nd	EW	E	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	No - External after Last Internal Monitoring	ET	ENT	E	E	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	Yes - Internal in Last Year of External Monitoring	nei	nei	nei	nei	E	nei	ET	ET	nei	ET	nd	nd	nd	nd	nd	W	nei	N	W	ENWT	nd	nd	nd	nd	nd	
Pipefitter	NA - No External Monitoring	N	N	N	N	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
Pipefitter	Yes - Internal in Last Year of External Monitoring	ET	ENT	ET	ENT	ENT	E	E	E	EN	EN	N	N	N	EN	ENT	EWT	EWT	ENWT	EWT	ENW	nd	nd	nd	nd	nd	nd	
Pipefitter	Yes - Internal in Last Year of External Monitoring	ET	ENT	ET	ET	ENT	ET	E	E	ENT	ENT	ENT	ENT	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	Yes - Internal after Last External Monitoring	ET	EN	E	E	EN	E	ET	ET	EN	E	N	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	No - External but No Internal Monitoring	nei	nei	nei	nei	E	nei	nei	nei	nei	E	nei	nei	nei	nei	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	Yes - Internal in Last Year of External Monitoring	ENT	EN	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	No - External after Last Internal Monitoring	ENWT	EN	EN	EN	E	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	No - External after Last Internal Monitoring	ENT	EN	EN	E	EN	nei	ET	nei	N	N	ET	ENT	ENT	N	EN	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	No - External after Last Internal Monitoring	ENT	ET	E	nei	EN	nei	E	E	EN	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	NA - Employment after 1997	nei	EN	nei	nei	nei	nei	nei	EN	EN	ET	nei	nei	nei	nei	nei	EW	EN	E	EWT	EWT	EWT	EWT	nei	nei	nei	nei	
Pipefitter	Yes - Internal after Last External Monitoring	EN	ENT	ET	ET	E	E	E	E	EN	E	EN	N	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	Yes - Internal after Last External Monitoring	ET	ENT	ET	ENT	nd	nei	E	E	EN	ENT	ENT	ENT	NT	EN	EN	E	ENW	EW	ENW	ENW	ENWT	EWT	W	nd	nd	nd	
Pipefitter	Yes - Internal in Last Year of External Monitoring	ENT	ENT	ET	ENT	ET	E	E	E	EN	EN	EN	nei	nei	nei	N	ENW	nei	EW	EW	ENWT	nd	nd	nd	nd	nd	nd	
Pipefitter	NA - Employment after 1997	E	N	nei	ET	nei	nei	nei	EW	EN	ENT	ET	ENT	EN	ENT	ENT	ENT	EWT	EWT	EWT	EWT	ENWT	EWT	EWT	EW	EW	EW	
Pipefitter	Yes - Internal after Last External Monitoring	ENT	ENT	ET	EN	ET	ET	ET	ET	ENT	T	NT	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	Yes - Internal in Last Year of External Monitoring	ET	ET	nd	ET	nd	nd	nei	nei	EN	E	EN	E	ENT	ET	EN	ENT	E	ENWT	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	Yes - Internal after Last External Monitoring	ET	N	nei	nd	nd	E	nd	E	ET	ENT	ENT	ENT	ENT	EN	EN	EN	EW	EW	ENWT	EWT	nd	nd	W	W	nd	nd	
Sheetmetal Worker	Yes - Internal in Last Year of External Monitoring	EN	E	EN	E	EN	E	E	E	ENT	ENT	EN	ENW	ET	EN	EN	EN	EWT	E	EW	EW	E	ENW	ENWT	ENWT	ENT	nd	
Sheetmetal Worker	No - External after Last Internal Monitoring	EN	E	EN	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Sheetmetal Worker	Yes - Internal in Last Year of External Monitoring	ENT	ENT	E	E	EN	E	ET	T	ENT	EN	N	nei	nei	N	EN	ENWT	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Sheetmetal Worker	No - External after Last Internal Monitoring	E	N	nei	nei	E	nd	nd	nd	nd	nd	nd	E	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Sheetmetal Worker	Yes - Internal in Last Year of External Monitoring	ENT	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Sheetmetal Worker	Yes - Internal after Last External Monitoring	ENT	E	EN	E	EN	ET	E	nei	EN	ENT	EN	EW	nei	N	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Truck Driver	Yes - Internal in Last Year of External Monitoring	E	N	E	EN	EN	E	nei	nei	E	EN	EN	N	nei	EN	N	ENW	ENT	EW	ENW	EW	ENW	ENT	nd	nd	nd	nd	
Welder	Yes - Internal in Last Year of External Monitoring	ENT	E	ET	E	E	nei	nei	EW	ET	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Welder	Yes - Internal in Last Year of External Monitoring	N	EN	N	N	E	nei	nei	ET	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Welder	Yes - Internal after Last External Monitoring	nei	EN	nei	E	EN	nei	nei	E	N	E	N	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Welder and Pipefitter	Yes - Internal after Last External Monitoring	E	EN	E	E	E	E	E	E	EN	E	EN	E	EN	E	EN	EN	ENWT	E	ENW	ENW	ENW	ENW	ENW	ENW	EN	N	nei
Carpenter	Yes - Internal after Last External Monitoring	nd	E	EN	E	ENT	E	E	E	E	ENT	ENT	ENT	ET	ET	N	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Carpenter	Yes - Internal in Last Year of External Monitoring	nd	nei	E	EN	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Heavy Equipment Operator	NA - Employment after 1997	nd	N	E	E	E	E	E	E	E	ENT	ENT	EN	T	NT	EN	EN	ET	E	EW	EW	ENW	ENW	ENW	ENW	ENW	
Iron Worker	NA - No External Monitoring	nd	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Laborer	Yes - Internal in Last Year of External Monitoring	nd	EN	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Millwright	Yes - Internal in Last Year of External Monitoring	nd	E	E	nd	nd	nd	nd	nd	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENWT	nei	EWT	EW	nd	nd	nd	
Pipe Fitter	NA - Employment after 1997	nd	ENT	ENW	ET	ENT	E	EN	ET	EN	E	ENT	EWT	EN	E	E	EN	EW	EWT	EWT	EWT	ENWT	ENW	ENW	ENW	EWT	
Pipefitter	Yes - Internal after Last External Monitoring	nd	nei	ET	ET	ENT	nei	ET	ET	EN	EN	EN	ET	ENT	ENT	nei	nei	nei	nei	nei	nd	nd	nd	W	nd	nd	
Carpenter	NA - Employment after 1997	nd	nd	T	E	nei	nd	nd	nd	ET	E	E	EW	E	nei	nei	EW	EWT	ENWT	ENWT	ENWT	ENW	ENWT	ENW	ENW	EN	
Carpenter	Yes - Internal in Last Year of External Monitoring	nd	nd	EN	E	E	ET	ET	E	EN	ENT	E	ET	nd	nd	nd	nd	EW	EWT	ENT	ENWT	nd	nd	nd	nd	nd	
Driver	NA - Employment after 1997	nd	nd	EN	nei	E	E	E	nei	EN	EN	nei	E	nei	EN	E	E	EN	E	EWT	EW	ENW	EW	E	EW	EW	
Electrician	No - External after Last Internal Monitoring	nd	nd	nei	E	E	E	E	E	EN	EN	EN	EN	EN	E	E	EN	E	nd	nd	nd	nd	nd	nd	nd	nd	
Heavy Equipment Operator	Yes - Internal in Last Year of External Monitoring	nd	nd	E	E	E	E	nd	nd	nd	nd	nd	nei	nei	nei	E	E	W	EW	nei	nd	nd	nd	nd	nd	nd	
Heavy Equipment Operator	NA - Employment after 1997	nd	nd	E	EN	E	E	E	E	E	E	nei	nei	E	E	ENWT	EN	E	ENW	E	EW	EW	EW	EW	nei	nei	
Iron Worker	Yes - Internal in Last Year of External Monitoring	nd	nd	N	nei	nd	nd	nd	nd	nd	nd	nd	nei	nei	E	nei	nei	W	E	EWT	ENW	ENWT	EWT	ENW	nd	nd	
Iron Worker	NA - Employment after 1997	nd	nd	N	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nd	nd	
Laborer	NA - Employment after 1997	nd	nd	E	E	ET	ET	ET	ET	ET	ENT	ENT	EN	EN	EN	E	EN	ET	EWT	ENT	EWT	ENWT	EWT	W	W	EW	
Laborer	No - External after Last Internal Monitoring	nd	nd	E	EN	EN	E	E	E	E	EN	EN	E	E	E	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Painter	NA - Employment after 1997	nd	nd	EN	EN	nd	nd	nd	nd	nd	nd	nd	ET	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Painter	Yes - Internal in Last Year of External Monitoring	nd	nd	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Painter	No - External after Last Internal Monitoring	nd	nd	E	EN	ENT	E	EN	ET	E	EN	ET	ET	ET	ET	ENT	EWT	EW	EW	EWT	EWT	ENWT	ENWT	E	nd	nd	
Pipefitter	No - External after Last Internal Monitoring	nd	nd	nei	ET	nd	E	EN	E	E	E	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	NA - Employment after 1997	nd	nd	nei	E	EN	EN	E	E	ENT	ENT	ENT	E	EN	EN	EN	EN	EW	E	ENW	ENW	ENW	ENW	EW	ENW	ENW	
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	EN	EN	ENT	E	ET	ET	EN	ET	E	ET	ENT	ET	ET	E	EW	E	EW	ENW	EN	EW	EW	EW	nd	
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	ET	E	E	E	E	E	ENT	EN	nd	nd	nd	nd	nd	nd	nd	nei	EW	ENWT	ENWT	nd	nd	nd	nd	
Sheetmetal Worker	No - External after Last Internal Monitoring	nd	nd	E	EN	N	nd	nd	nd	nd	NT	ET	ET	E	EN	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Welder	NA - No External Monitoring	nd	nd	nei	nei	nei	nei	nei	nei	nei	nei	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Welder	NA - No External Monitoring	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Boilermaker	Yes - Internal after Last External Monitoring	nd	nd	nd	ET	E	E	nei	nei	ET	ENT	ENT	ET	ET	ENT	ET	ENW	ET	ENT	EWT	EWT	ENW	ENWT	ENW	EW	nd	
Boilermaker	No - External after Last Internal Monitoring	nd	nd	nd	nei	ET	ET	ENT	ET	ET	ENT	ET	EN	ENT	ET	ET	E	E	E	EW	EW	E	nd	nd	nd	nd	

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Boilermaker/Welder	NA - Employment after 1997	nd	nd	nd	E	ET	ET	E	E	ET	ENT	ET	ENT	ENWT	ET	EN	ENW	E	EN	EW	EWT	EWT	ENW	ENWT	EWT	W	EW
Carpenter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nei	E	nd	nd	nd	nd	E	nd	E	EN	EN	EN	ENWT	ET	ENW	EW	ENW	EN	ENWT	ENWT	N	ENWT	nd
Carpenter	NA - Employment after 1997	nd	nd	nd	N	EN	nei	E	nei	nei	nei	nei	E	nei	nei	nei	E	EW	ENW	ET	EWT	ENWT	ENWT	ENW	ENW	E	E
Driver	No - External after Last Internal Monitoring	nd	nd	nd	N	nd	nei	nei	nd	EN	EN	E	N	EN	EN	ENW	ENW	EW	ENW	E	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - Employment after 1997	nd	nd	nd	E	nei	nei	nei	nei	nei	ET	nei	E	N	E	EN	EWT	EN	E	ENW	ENW	ENWT	EW	EW	E	EW	E
Electrician	NA - No External Monitoring	nd	nd	nd	N	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	EN	nd	nd	E	ET	ENT	ENT	ET	nd	nd	nd	nd	nd	nd	ENW	EW	EWT	EN	ENWT	ENWT	nd	nd	nd
Electrician	No - External after Last Internal Monitoring	nd	nd	nd	EN	nd	nd	E	E	EN	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	No - External after Last Internal Monitoring	nd	nd	nd	EN	N	nd	E	nei	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	E	ET	ET	ET	ET	ENT	ET	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	EN	E	ET	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	W	EWT	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	ENT	ET	EN	ET	ET	ET	ENT	ENT	ENT	ET	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - Employment after 1997	nd	nd	nd	EN	EN	nei	nei	nd	nd	nd	nd	nd	nd	nei	E	E	nei	W	nei	nei	E	nei	NW	EW	EW	ENW
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	E	nd	nd	nd	nd	nd	E	nei	nd	nei	nei	nei	nd	nd	W	EW	EW	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal after Last External Monitoring	nd	nd	nd	nei	nei	nd	E	nd	nd	nd	nd	EW	nd	nd	nd	nd	nd	W	EWT	EWT	W	W	nd	nd	nd	nd
Heavy Equipment Operator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	EN	E	E	E	nei	EN	EN	EN	EN	E	N	EN	EN	EW	EW	ENWT	nd	nd	nd	nd	nd	nd	nd
Heavy Equipment Operator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nei	nd	nd	EN	E	EN	ET	ENT	ET	EN	E	EN	EN	NW	ENWT	nd	nd	nd	nd	nd	nd	nd	nd
Insulator	Yes - Internal after Last External Monitoring	nd	nd	nd	EN	nd	ET	nd	E	E	nd	nd	E	EN	E	E	EW	ENW	E	E	EW	ENWT	W	nei	nd	nd	nd
Insulator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nei	nd	nd	nd	nei	E	nd	EN	EN	nei	E	ENT	ET	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Insulator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nei	E	nd	nd	nd	nd	ENT	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Insulator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	E	E	ET	E	nei	E	nei	nei	EW	EN	EN	EN	ENW	EN	E	ENW	nd	nd	nd	nd	nd	nd	nd
Iron Worker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nei	N	nei	nei	E	EN	nei	N	nei	EN	N	EN	W	EWT	E	EWT	ENWT	nd	nd	nd	nd	nd	nd
Millwright	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	E	E	ET	ET	E	EN	EN	EN	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Painter	Yes - Internal after Last External Monitoring	nd	nd	nd	nei	nei	nd	nd	nd	nd	ET	ENT	ENT	ENT	ET	ENT	W	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Painter	NA - Employment after 1997	nd	nd	nd	nei	ET	ENT	E	ENT	E	ENT	ET	ET	ET	ET	ENW	EWT	ENWT	EW	E	W	nei	W	W	nei	nei	
Painter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	W	EW	ENWT	nd	nd	nd	nd	nd	nd	nd
Painter	No - External after Last Internal Monitoring	nd	nd	nd	nei	EN	EN	EN	ENWT	nd	ENT	ET	ENT	ENT	ENT	ENT	ET	EW	ENWT	EW	ENW	EW	EW	E	E	nd	nd
Painter	Yes - Internal after Last External Monitoring	nd	nd	nd	nei	E	nei	E	EN	E	E	ENT	ENT	ENT	ENT	ENT	ENT	EWT	ENWT	EWT	ENWT	ENWT	ENWT	NW	EW	W	nd

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
Painter	No - External after Last Internal Monitoring	nd	nd	nd	E	EN	nd	nd	nd	nd	N	nei	nei	nei	nei	nei	E	W	EW	E	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	No - External but No Internal Monitoring	nd	nd	nd	nei	nd	nd	nd	E	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	No - External after Last Internal Monitoring	nd	nd	nd	EN	nei	nd	T	nd	nd	nd	nd	nd	nd	N	EN	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	NA - Employment after 1997	nd	nd	nd	ET	nd	ET	E	E	E	EN	nd	nd	nd	nd	nd	W	W	ENT	E	E	E	E	E	E	E	W	nei
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	E	E	nei	nei	E	EN	EN	ENT	ET	ENT	ENT	ENT	ENT	EW	ENW	ENWT	ENW	ENW	ENWT	ENW	ENW	ENWT	ENWT	
Pipefitter	No - External after Last Internal Monitoring	nd	nd	nd	nei	nei	nei	nei	nei	nei	nei	nei	nei	nei	W	nei	NW	W	EN	EW	E	nei	nd	nd	nd	nd	nd	
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nei	nd	nd	nei	W	nd	nd	nd	nd	nd	nd	nd	nd	EW	W	ENWT	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	NA - Employment after 1997	nd	nd	nd	ET	nd	nd	nei	E	nei	EN	nd	nd	nd	nd	nd	nd	W	nei	nei	ENW	ENW	ENW	ENW	ENW	EWT	ENW	
Pipefitter	No - External after Last Internal Monitoring	nd	nd	nd	E	nd	nd	nd	E	ENW	ET	E	EN	ENT	T	ENT	ENW	E	E	E	E	nd	nd	nd	nd	nd	nd	
Pipefitter	Yes - Internal after Last External Monitoring	nd	nd	nd	nei	nei	nd	ET	ET	E	nd	nd	nd	nd	nd	nd	nd	W	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	NA - Employment after 1997	nd	nd	nd	E	E	E	E	ET	ET	ENT	ENT	ET	ET	ET	ENT	ENT	ET	EW	ENT	ENWT	ENWT	ENWT	ENW	EW	EW	ENW	
Pipefitter/Welder	NA - Employment after 1997	nd	nd	nd	E	E	nei	T	ET	ENT	ENT	nd	nd	nd	nd	nd	E	nd	W	W	nd	nd	nd	nd	nd	nd	nd	
Sheetmetal Worker	Yes - Internal after Last External Monitoring	nd	nd	nd	EN	E	E	E	E	ENT	EN	E	EW	E	E	E	ENW	E	WT	nd	nd	nd	nd	nd	nd	nd	nd	
Truck Driver	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nei	nei	nd	nd	nd	nd	nd	nd	nd	nei	E	EN	E	EN	E	EW	ENWT	ENWT	nd	nd	nd	nd	nd	
Welder	No - External after Last Internal Monitoring	nd	nd	nd	nei	E	E	ET	E	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Welder	No - External after Last Internal Monitoring	nd	nd	nd	ET	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	nd	nd	nd	nd	nd	nei	nei	nd	nd	nd	nd	
Asbestos Worker	NA - Employment after 1997	nd	nd	nd	nd	nei	nd	nd	E	EN	N	E	EN	N	EN	EN	ENW	ENW	E	EW	ENW	ENWT	EW	NW	ENW	ENW	ENW	
Boilermaker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nei	nd	nd	nei	nd	nd	nd	EW	nd	nd	nd	nd	nd	nd	nd	
Boilermaker	NA - Employment after 1997	nd	nd	nd	nd	EN	EWT	E	E	ENT	ENT	ENT	EN	E	ENT	E	EN	EN	EWT	ET	EWT	EWT	EWT	EW	EW	EW	E	
Boilermaker	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	W	E	ENWT	W	nd	nd	nd	nd	nd	nd	
Boilermaker	No - External but No Internal Monitoring	nd	nd	nd	nd	nei	nd	nei	nd	nd	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Carpenter	NA - Employment after 1997	nd	nd	nd	nd	ET	E	E	ET	EN	ENT	ET	ENT	ENT	ENT	EN	EN	EW	ET	E	EW	ENWT	ENWT	EWT	ENWT	ENT	ENT	
Concrete	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	N	nd	E	E	EN	ENT	ENT	ENT	ET	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Driver	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nei	nei	E	E	EN	EN	EN	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Driver	NA - Employment after 1997	nd	nd	nd	nd	E	E	ET	E	ENT	ENT	ENT	ENT	E	EN	NT	ENT	EN	E	ENT	EN	ENT	EWT	ET	EWT	EWT	ET	
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nei	T	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ET	ENT	ENW	ENWT	ENWT	nei	nei	nei	EW	
Heavy Equipment Operator	NA - Employment after 1997	nd	nd	nd	nd	E	E	E	E	E	E	E	E	E	E	E	E	EW	E	E	E	EN	EN	EN	EN	EN	EN	

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Heavy Equipment Operator	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nei	E	E	E	E	E	nei	E	E	E	E	E	E	E	E	E	EN	N	N	N	N	N
Insulator	NA - Employment after 1997	nd	nd	nd	nd	nei	nei	nd	nd	E	N	E	E	N	N	EN	ENW	ENW	ENW	EW	EW	ENWT	ENWT	ENWT	ENWT	ENWT	ENT
Insulator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nei	nd	nei	E	EN	ET	ENT	ENT	NT	ET	ENT	ENW	EW	EW	ENW	ENW	EN	ENW	ENW	ENW	EN	EN
Insulator	NA - Employment after 1997	nd	nd	nd	nd	nei	nei	E	E	ENT	ENT	E	ET	ENT	EN	EN	EN	ENW	ENWT	EWT	ENWT	ENW	EW	ENW	ENW	EN	ENWT
Iron Worker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	ET	ET	E	E	EN	EN	ENT	ET	E	E	EN	EW	EN	EW	ENW	ENW	ENW	W	nei	EW	nd	nd
Laborer	NA - Employment after 1997	nd	nd	nd	nd	E	E	E	E	E	ENT	NT	T	ET	ENT	ENT	ENWT	ENWT	ENWT	EWT	EWT	ENWT	ENWT	W	EWT	ET	ET
Laborer	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	E	ET	EWT	ET	ENT	ET	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Painter	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	ENT	ET	ENWT	ENT	E	ENT	ENT	ENT	ENT	ET	ENT	ENT	ENWT	ET	EWT	ENWT	ENWT	W	nd	nd	nd	nd
Pipefitter	No - External after Last Internal Monitoring	nd	nd	nd	nd	W	nei	nei	nei	nei	nei	nei	nd	nd	ENW	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nei	E	ET	ET	EN	EN	ET	ENT	ET	ENT	ENT	ENWT	E	E	ENW	ENW	EWT	EWT	EWT	EWT	ENT	ENT
Pipefitter	No - External after Last Internal Monitoring	nd	nd	nd	nd	nei	E	ET	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	No - External after Last Internal Monitoring	nd	nd	nd	nd	E	ET	ET	ET	ET	ENT	ENT	E	EN	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	No - External but No Internal Monitoring	nd	nd	nd	nd	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	ET	ET	E	E	EN	EN	ENT	ENT	ENT	ENT	ENT	ET	ENWT	ENT	EWT	EWT	ENWT	ENW	ENW	ENW	EN	ENW
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	E	ET	ET	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter/Welder	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	E	E	ET	E	ENT	ET	ENT	ET	ENT	ENT	ET	ENT	E	E	ENWT	ENW	ENW	ENW	nd	nd	nd	nd
Sheetmetal Worker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nei	nei	nei	nei	N	N	N	nei	E	nei	E	EW	EN	E	EW	nd	nd	nd	nd	nd	nd	nd
Truck Driver	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nei	E	E	E	E	EN	NT	N	nei	EN	E	E	EW	nd	nd	nd	nd	nd	nd	nd	nd	nd
Welder	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	E	E	E	E	ET	E	nei	W	nei	EW	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Welder	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nei	ET	ET	ET	ET	ENT	ENT	ET	ENT	ENT	ET	ENT	EN	EWT	EWT	ENWT	nd	nd	nd	nd	nd	nd
Boilermaker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	ENWT	ET	E	E	ENT	ENWT	ENT	ET	ET	EN	EN	EN	E	ENW	EW	W	W	W	EWT	EWT	nd
Carpenter	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	E	E	E	nei	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Carpenter	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nei	E	EN	E	ENT	EN	E	E	EN	E	ENT	EN	EN	EWT	ENWT	ENW	N	nd	nd	nd	nd
Carpenter	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nei	E	EN	EN	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Carpenter	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nei	ET	N	NT	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Carpenter	NA - Employment after 1997	nd	nd	nd	nd	nd	nei	E	N	EN	ET	ENT	nd	nd	nd	nd	nd	nd	ENWT	EWT	EWT	ENWT	W	nd	nd	E	nd
Carpenter	NA - Employment after 1997	nd	nd	nd	nd	nd	E	E	nei	ET	ENT	E	EN	ENW	ET	EN	ENW	ENW	E	EW	ENW	ENW	ET	nei	nei	nei	nei
Carpenter	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	E	E	E	EN	ENT	ENT	ET	ENT	ENT	ENT	ENT	EWT	EWT	EWT	EWT	ENWT	ENW	ENW	W	N	nd
Carpenter	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	E	E	EN	EN	E	EN	E	EN	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
Concrete	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nei	ET	E	EN	ENT	nd	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Driver	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nei	nei	nei	nei	N	ENT	NT	nei	N	EN	ENW	ENWT	ET	EWT	ENWT	ENWT	nd	nd	nd	nd	nd	
Driver	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	E	E	E	EN	N	nei	E	EN	EN	EN	EN	EW	ENW	ENWT	nd	nd	nd	nd	nd	nd	nd	
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nei	nei	E	E	E	E	E	E	E	E	E	EW	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	N	E	ENT	EN	EN	EN	ENW	EW	ENW	ENW	ENW	EWT	nd	nd	nd	nd	
Electrician	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nd	nei	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	W	ET	EW	ENWT	EW	W	EW	nei	nei	
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nei	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nd	nei	nd	nd	nd	ENT	nd	nd	nd	nd	nd	nd	nd	NW	nei	EWT	ENWT	nd	nd	W	E	W	
Heavy Equipment	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nei	E	nd	nd	nd	nd	nd	nd	nei	nei	nd	nd	nd	nd	nei	nei	nei	nei	nd	nd	nd	nd
Heavy Equipment Operator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nei	E	E	EN	E	EW	ENT	EN	ENT	E	EWT	ENWT	EWT	nd	nd	nd	nd	nd	nd	nd	nd	
Insulator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nei	E	EW	EN	ENW	nei	EN	ET	EN	EN	E	NW	ENW	EW	ENWT	ENWT	ENWT	nd	nd	nd	nd	
Iron Worker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	E	E	nei	nd	nd	nd	E	E	nei	nd	nd	W	nd	ENWT	nd	nd	nd	nd	nd	nd	nd	
Iron Worker	NA - Employment after 1997	nd	nd	nd	nd	nd	nei	E	nei	nd	nd	nd	nd	nd	nd	nd	nd	E	EW	EN	EWT	ENW	EWT	EW	E	EW	W	
Iron Worker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nei	E	E	nei	EN	nei	ENT	ET	N	EN	EN	ENW	E	EWT	EWT	EWT	nd	nd	nd	nd	nd	
Laborer	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	E	E	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Laborer	NA - Employment after 1997	nd	nd	nd	nd	nd	nei	E	E	N	E	NT	ENT	ENT	ET	ET	ENWT	EWT	EWT	ENWT	ENWT	ENWT	EWT	EW	ENWT	ENWT	ENW	
Laborer	NA - Employment after 1997	nd	nd	nd	nd	nd	E	E	nei	EN	ET	ENT	ENT	ENT	EN	EN	ENW	EN	ENW	EW	ENW	EN	EN	ENW	ENW	ENW	EN	
Laborer	NA - Employment after 1997	nd	nd	nd	nd	nd	nei	E	nd	nd	ENWT	ET	EN	E	E	E	ENW	EW	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Laborer	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	E	nei	E	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Laborer (Construction)	NA - Employment after 1997	nd	nd	nd	nd	nd	nei	E	E	E	E	E	E	E	E	E	E	E	E	EWT	EW	ENW	ENW	ENW	ENW	ENW	ENW	
Mechanic	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nei	nei	nei	nei	nei	nei	E	N	N	nd	EW	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Painter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	ET	ET	E	ET	EN	nei	ENT	ENT	ENT	ET	ENWT	ENT	EWT	ET	EN	ENW	EN	nei	nd	nd	nd	
Painter	NA - Employment after 1997	nd	nd	nd	nd	nd	E	E	ET	EN	ENT	ENWT	ENT	ET	EN	ENWT	ENT	ENWT	ET	ENW	ENWT	ENWT	ENT	EWT	EWT	ENWT	ET	
Painter	NA - Employment after 1997	nd	nd	nd	nd	nd	ET	ET	E	E	E	ET	ET	ENT	ENT	ENT	ENT	ENWT	EWT	EWT	ENWT	ENWT	ENW	ENWT	ENWT	ENWT	ENWT	
Painter	NA - No External Monitoring	nd	nd	nd	nd	nd	nei	nei	nd	nei	nei	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Painter/Laborer	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nei	E	E	EN	ENT	nd	nd	nd	nd	nd	nd	W	EWT	ENWT	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nei	nei	nei	nei	EN	N	nei	N	N	N	W	E	EN	E	ENWT	nei	nd	nd	nd	nd	nd	
Pipefitter	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nei	nei	nei	nei	E	E	nei	nd	nd	E	EN	EN	E	ENW	ENWT	EWT	EWT	EWT	EW	W	nd	

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nei	nei	ET	ET	ENT	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	NA - No External Monitoring	nd	nd	nd	nd	nd	nei	nei	N	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	ET	N	nei	E	ET	ENT	ENT	ET	ENT	ENT	EWT	ENT	EWT	EWT	ENWT	ENWT	ENWT	ENW	ENW	ENW	E
Pipefitter	NA - No External Monitoring	nd	nd	nd	nd	nd	nei	nei	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	NA - No External Monitoring	nd	nd	nd	nd	nd	nei	nei	nei	N	nei	nei	nei	nei	nei	nei	nei	W	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nei	nei	nei	N	NT	nei	nei	nei	nei	EN	EW	EW	E	E	E	ENWT	nd	nd	nei	nei	nd
Pipefitter	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nei	W	E	N	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	E	ET	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nei	ET	E	EN	ENT	ENT	ENT	E	EN	E	E	E	E	E	nd	nd	nd	nd	nd	nd	nd
Pipefitter	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nei	E	E	E	E	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nei	nei	E	EN	EN	EN	ENT	N	nei	N	ENW	EWT	EWT	EWT	ENW	ENWT	nei	W	W	EW	nei
Sheetmetal Worker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nei	E	ET	EN	EN	ENT	ENT	ENT	EN	EN	EN	ENT	EWT	EN	ENWT	ENWT	ENWT	ENW	ENW	nd	nd
Truck Driver	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	E	E	E	EN	ENT	ENT	ENT	NT	nei	nei	E	EW	nd	nd	nd	nd	nd	nd	nd	nd	
Welder	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	E	E	E	E	ENWT	ENT	ENT	EN	E	EN	ENW	E	E	ENW	ENWT	nd	nd	nd	nd	nd	
Welder	NA - Employment after 1997	nd	nd	nd	nd	nd	nei	nei	nei	nei	ENT	ENT	ENT	ENT	ENT	ENT	ENT	ENT	EWT	EWT	ENWT	ENWT	EWT	EWT	ENWT	ENWT	ET
Boilermaker	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	nei	E	ET	ET	E	ET	EN	ET	ENWT	EWT	nei	ENWT	W	nd	nd	
Boilermaker	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	WT	nd	nd	nd	nd	nd	
Boilermaker	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	E	nd	nd	nd	nd	nd	E	E	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Boilermaker/Welder	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	E	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	EWT	ENW	ENWT	ENWT	nd	nd	W
Carpenter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nei	N	ENT	ENT	nd	T	nd	nd	nd	nd	E	EWT	EW	EW	ENW	ENW	ENWT	nd	nd	
Carpenter	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Carpenter	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Carpenter	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Carpenter	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	E	E	NT	ENT	E	E	N	ENT	EN	ENWT	E	ENT	EWT	ENWT	ENWT	ENWT	ENWT	ENWT	E	nd
Carpenter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nei	N	EN	EN	E	E	E	EN	EN	ENW	EWT	ET	EWT	E	ENW	ENWT	nd	nd	nd	
Driver	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nei	E	E	N	E	EN	E	nei	nei	nei	NW	E	EW	EN	ENWT	E	nd	nd	nd	
Driver	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nei	nei	EN	E	EN	N	EN	E	EN	EN	EW	EW	EW	ENT	ENW	EW	nei	nei	nd	
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nei	E	E	EN	nei	nei	E	nei	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nei	nei	nd	nd	nd	nd	nd	nd	nei	W	nd	EW	EN	EW	ENWT	nd	nd	nd	nd	

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nei	E	nd	nd	nd	nd	nd	T	ENT	ENT	ENT	EWT	EWT	ENWT	ENWT	ENWT	nd	nd	nd	nd	
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nei	E	E	E	nei	nei	nei	EN	EN	EN	EN	E	EN	E	ENW	nd	nd	nd	nd	nd	
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	E	nei	ENT	T	EN	N	N	EN	EN	ENW	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Electrician	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	E	nei	EW	nd	E	EW	E	nei	E	nd	NWT	nei	E	W	EWT	EWT	EW	W	W	nd	
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nei	nei	EN	EN	EN	EN	nei	nei	nei	E	NW	E	EW	ENW	ENW	ENWT	nd	nd	nd	nd	
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	E	E	E	E	EN	EN	EN	EN	E	EN	ENW	ET	ENWT	EWT	EW	W	E	nei	EW	ENW	
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nei	E	E	EN	nd	nd	nd	nd	nd	nd	W	E	N	EW	nei	nei	nd	nd	nd	nd	
Insulator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nei	E	EN	ENT	E	ENT	ENT	E	EN	ENWT	ENT	EW	EW	ENWT	ENWT	ENWT	ENWT	nd	nd	nd	
Insulator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	E	ENT	ET	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Insulator	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nei	E	EN	ET	ENT	ENT	N	EN	N	NW	W	EN	EW	EW	EW	EW	EW	EW	EW	EW	
Insulator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	E	E	E	E	nd	EW	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Insulator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	E	E	ET	EN	EN	ENWT	ENT	EN	E	E	nd	EW	ENW	EW	ENW	EW	EW	EW	EW	nd	
Iron Worker	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Iron Worker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nei	nei	EN	E	EN	ENT	EN	E	E	EW	EW	EN	EW	ENWT	ENWT	ENW	nd	nd	nd	nd	
Iron Worker	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nei	nei	EN	EN	EN	EN	E	EN	EN	EN	EW	E	EWT	EW	EW	EW	E	EWT	E	nd	
Iron Worker	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	E	nd	nd	nd	nd	EW	ENT	E	EN	E	ENW	E	EW	ENW	ENW	ENW	ENW	ENW	ENW	ENWT	
Laborer	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nei	nei	EN	E	EN	EN	E	E	EN	E	EN	EN	EWT	EN	ENW	EWT	EW	EW	EW	EN	
Laborer	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nei	E	nei	ENT	ENT	ENT	ENT	E	ET	EW	EW	EWT	nd	nd	nd	nd	nd	nd	nd	nd	
Laborer	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	E	E	E	EN	EN	ENT	EN	EN	EN	EW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	
Laborer	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nei	E	EN	EN	ET	ENT	E	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Laborer	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nei	nd	nd	ENT	ENT	ENT	EN	EN	E	ENT	ENT	EWT	EWT	ENWT	ENWT	ENWT	ENW	ENW	NW	E	
Millwright	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nei	nei	E	E	ET	E	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Painter	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	E	EN	ET	ENT	ENT	ENT	ET	ENT	ET	ET	ET	E	ENW	ENWT	E	W	nd	nd	nd	nd	
Painter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	EN	EN	E	ENT	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Painter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	ET	E	EN	ENT	EN	ET	ENT	ET	ENT	ENW	EW	EWT	EWT	ENT	ENWT	nd	nd	nd	nd	nd	
Painter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	ET	ET	ENT	ENT	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nei	E	EN	EN	EN	EN	EN	EN	EN	EN	EW	ENW	EW	ENW	ENWT	EWT	W	nd	nd	nd	
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nei	nei	EN	E	EN	ENWT	EN	EN	EN	EN	EW	ENWT	EWT	EWT	EWT	EWT	EWT	EW	EW	ENW	nei
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nei	EN	nd	nd	nei	nei	nd	E	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
Pipefitter	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nei	nei	E	E	E	E	E	E	E	EW	nei	E	EW	EW	EW	nei	W	W	nd	nd			
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	E	T	ENT	ENT	ENT	ET	nei	E	E	E	E	E	EWT	EW	nd	nd	nd	nd	nd	nd			
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nei	E	EN	ENT	EN	ET	ENT	ENT	ET	E	EW	ET	EW	ENWT	nd	nd	nd	nd	nd	nd			
Pipefitter	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	E	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd			
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nei	E	E	EN	EN	EN	EN	EN	EN	ENW	E	EN	EW	ENWT	nd	nd	nd	nd	nd	nd			
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	E	E	nei	EN	ENT	ET	nd	nd	nd	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd			
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nei	nei	nei	E	ET	ENT	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd			
Pipefitter	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	E	E	E	ENT	EWT	ENT	ENT	ENT	EN	EN	EN	E	E	ENW	ENW	ENT	N	NW	nei	nd			
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	E	nei	nd	nd	nd	nd	nd	nd	nd	nd	WT	W	EW	nd	nd	nd	nd	nd	nd	nd			
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nei	E	EN	EN	nd	nd	nd	nd	nd	nd	nei	nei	NW	W	EN	ENW	EW	ENW	ENWT	nei	W	EW	ENWT
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nei	E	ENT	ET	nd	nd	nd	nd	nd	nd	nd	nei	nei	nd	nd	nd	nd	W	nd	nd	nd	nd	
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nei	E	EN	ET	nei	nd	nd	nd	nd	ENWT	ENWT	ENW	E	EWT	ENWT	ENWT	ENWT	ENW	EW	EN	ENWT		
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nei	nei	EN	T	nd	nd	nd	nd	nd	nd	W	nei	nei	ENW	EW	EW	EW	EW	EW	EW	EW		
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	E	ET	ENT	EN	EN	ENWT	ET	EN	E	EWT	E	E	ENW	EN	ENW	ENW	E	nei	W	nei	nd		
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nei	nei	EN	E	ENT	EN	ENT	ENT	EN	E	ENW	ENW	EW	ENW	ENW	ENW	ENW	ENWT	EWT	EWT	ENT		
Pipefitter	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	E	E	nd	nd	nd	nei	E	E	E	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd		
Pipefitter	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd		
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	E	ENW	nei	ET	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd		
Pipefitter	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	E	nei	nei	nei	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd		
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	E	E	EN	ENT	nd	nd	nd	nd	nd	nei	N	nei	nei	N	EW	ENW	ENW	NW	NW	ENW	EW	nei	
Sheetmetal Worker	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nei	nei	E	E	nei	nei	E	E	E	E	E	ET	ET	E	EN	ENT	nei	E	E	E	E		
Sheetmetal Worker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nei	nei	nei	nei	W	W	EW	nd	nd	nd	nd	nd	nd	nd	nd		
Sheetmetal Worker	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd		
Sheetmetal Worker	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nei	nei	N	nd	nei	nei	ENW	E	N	EW	E	ENW	EW	E	EN	N	NW	ENW	EN	NW			
Sheetmetal Worker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nei	E	nd	E	ENT	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd		
Sheetmetal Worker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nei	nei	N	N	N	N	EN	EN	EN	ENW	EW	ENT	EWT	ENT	ENW	ENW	ENW	ENW	ENW	ENW	ET		
Welder	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	E	E	nd	E	E	nd	E	EN	EN	ENW	EN	E	ENWT	ENWT	ENW	EW	W	W	nd	nd			
Boilermaker	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd		
Carpenter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	E	EN	EN	EN	EN	EN	EN	EN	ENW	ENW	EN	EN	ENW	ENW	ENWT	nd	nd	nd	nd	nd		

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Construction Worker	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	E	EN	ENT	ET	ET	ENT	ENT	ENT	ENT	ENWT	ET	EWT	EWT	ENW	ENW	ENW	E	N	nd
Driver	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	N	EN	nei	N	E	EN	EN	E	EN	ENW	E	EW	EW	ENW	EW	nei	W	nei	nei
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	W	EN	ENWT	EWT	ENWT	nd	nd	nd	nd	nd	nd	nd
Electrician	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nei	nei	E	E	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	E	nei	nei	nei	nei	nei	nei	nei	EW	E	EW	E	ENWT	nd	nd	nd	nd	nd	nd
Insulator	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	E	E	E	E	E	E	E	E	EW	E	EW	EW	ENW	ENW	EW	EW	EW	E	EW
Insulator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nei	nei	E	nd	nd	nd	nd	nd	nd	nd	nd	NW	EWT	EWT	nd	nd	nd	nd	nd
Insulator	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nei	nd	ENT	nei	E	ENT	E	EN	EW	EN	ENW	EWT	ENWT	ENW	ENT	ENW	ENW	ENWT	EWT
Millwright	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	EW	EN	nd	nd	nd	nd	nei	nei	nei	EW	E	NW	ENWT	ENWT	EWT	nd	nd	E	nd
Millwright	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	E	EN	EN	EN	ENT	ET	E	ET	ENWT	ET	ET	EWT	EWT	ENWT	ENWT	ENW	EN	EN	EN
Millwright	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nei	EN	EN	ENT	ENT	E	E	EN	EN	EW	E	E	ENWT	EW	ENWT	nd	nd	nd	nd
Painter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	ENT	E	ET	ENT	ENT	ENT	ENT	ENT	EWT	EW	EWT	ENWT	nd	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	EW	ENT	EN	nd	nd	nd	nd	nd	nd	nd	W	W	EW	ENW	EWT	nd	nd	nd	nd
Pipefitter	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nei	EN	ENT	nei	nei	nei	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	nei	nei	nei	nei	W	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nei	EN	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	nei	nei	nei	nei	nei	nei	nei	nd	nei	nd	nd	W	ENW	ENW	ENW
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nei	nei	EN	nd	nd	nd	nd	nd	nei	nei	EWT	ENWT	ENWT	EWT	ENWT	W	W	nd	nd
Boilermaker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	E	ENT	ET	EN	EN	EW	E	ENT	ENW	EW	ENWT	ENT	ENWT	nd	nd	nd
Carpenter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	E	ENT	ENT	ENT	ENT	ENT	ENT	EN	ENWT	ET	ENWT	EW	ENW	ENW	ENW	ENW	ENT	ENWT
Carpenter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	ET	ENT	N	E	ET	EN	EN	EN	ENWT	ENWT	EWT	nd	nd	nd	nd	nd	nd	nd
Carpenter	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	EN	EN	N	EN	EN	N	N	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Carpenter	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nei	EN	nd	nd	nd	nd	E	nd	nd	nd	nei	nei	nei	nei	nei	nei	nei	nd
Electrician	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	ENT	ENT	ENT	EN	ENT	ET	ENT	EW	E	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nei	EN	nd	ET	NT	T	NT	N	ENWT	EWT	EWT	EWT	W	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	ET	ENT	ENT	ET	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nei	nd	nd	W	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	ENT	E	E	ET	ET	EN	E	ENW	EW	ENW	EW	ENW	ENWT	ENW	EW	EW	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENWT	EW	ENWT	nd	nd	nd	nd	nd

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	N	ET	N	nd	nei	nd	nd	nd	EW	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	EN	EN	EN	EN	E	E	N	EN	ET	EWT	EWT	EWT	EWT	EWT	EWT	E	ENW	ENW	
Electrician	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	N	EN	E	N	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	nei	nei	nei	EW	nei	W	EWT	nd	nd	nd	nd	nd	nd	nd	
Insulator	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	nei	nei	nei	nei	nei	nei	nei	nei	nei	nei	nei	W	ENW	ENWT	
Insulator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	E	ENT	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Ironworker	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Laborer	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	EN	N	N	EN	EN	EN	E	EN	E	EWT	EWT	ENWT	ENWT	nd	nd	nd	nd	nd	
Laborer	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	N	N	nei	N	EN	E	N	ENW	EW	E	EW	E	ENW	W	nei	W	nd	nd	
Laborer	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	EN	EN	ET	EN	EN	EN	EN	ENT	ENW	EWT	EWT	EWT	EWT	ENT	EWT	nei	W	EW	EN
Painter	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	EN	ENT	ENT	ENT	ENT	ET	ENT	ET	ENW	EWT	EWT	E	W	nei	W	W	nei	nd	
Painter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	E	E	nd	nd	nd	nd	nd	EW	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nei	ET	T	ET	nei	nei	nei	nei	NW	EW	EW	EW	EWT	EW	E	EW	EW	E	
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	ET	ET	ET	ET	ET	ENW	EN	EW	E	ENWT	ENWT	ENWT	ENW	ENW	ENT	nd	
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nei	EN	nd	E	nei	nei	nei	nd	W	EW	nei	nd	nd	nd	nd	W	W	nd	
Sheetmetal Worker	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	N	E	E	E	E	E	E	E	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Sheetmetal Worker	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nei	N	nei	N	nei	N	EN	ENW	N	ENW	E	E	nei	E	nei	nd	nd	nd	
Sheetmetal Worker	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	E	nd	nd	nei	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Truck Driver	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	E	ENT	EN	EN	EN	EN	ENT	EN	ET	EW	EW	ENW	ENW	EW	EW	EW	EW	EW	
Welder	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	E	T	nd	nd	nd	nei	nei	ENW	EN	E	EW	ENW	EN	ENW	ENW	NW	N	N	
Carpenter	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Carpenter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EWT	EWT	EWT	ENW	ENW	ENW	
Driver	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	EN	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Driver	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	N	EN	EN	EN	EN	EN	EN	EN	EW	EN	EW	EW	ENWT	ENW	ENWT	ENWT	ENW	EN	
Driver	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	N	nd	nd	nei	E	EN	EN	EN	EN	E	E	nd	nd	nd	nd	nd	nd	nd	
Driver	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	EN	E	ENT	N	EN	EN	ENWT	EW	E	EW	ENW	ENW	EW	EW	E	W	nei	nd	
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	E	N	N	E	N	nd	nd	nd	nd	E	EW	ENW	ENWT	ENW	ENW	ENW	EW	E	
Electrician	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	ENT	ENT	ENT	ENT	ENT	ENT	ENT	ENT	ET	EWT	ENWT	ENWT	nd	nd	nd	nd	nd	nd	

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Electrician	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	T	ET	ENT	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	NW	NW	nei	E	N	N	nei	nei	EW	E	EW	nei	nei	W	W	EWT
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	ET	nei	E	E	nd	nd	W	nei	EWT	nd	nd	nd	nd	nd	nd	nd
Heavy Equipment Operator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	T	ENT	E	E	EN	ENW	EW	EN	ENWT	nd	nd	nd	nd	nd	nd	nd
Iron Worker	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	E	nei	E	EW	E	E	E	EN	ENW	W	nei	W	nd	nd
Iron Worker	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Iron Worker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	E	EN	EN	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Iron Worker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	ET	ENT	ET	ENT	ET	EN	ENW	nd	nd	nd	nd	nd	nd	nd	nd	nd
Iron Worker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	EN	E	E	nei	E	E	ENW	W	EW	ENW	ENW	ENW	ENWT	ENW	ENW	ENW
Laborer	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	E	E	E	nd	nd	nd	nd	nd	W	nd	nd	nd	nd	nd	nd
Millwright	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	N	ENT	ENT	ENT	ET	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Painter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENT	E	ENT	ET	ENT	ENT	ENW	EN	EWT	EWT	ENW	ENW	EN	EW	EW	ENW	ENT
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	ET	EN	ENT	ENT	ENT	ENT	ENT	ET	ENWT	EWT	ENT	ENWT	ENWT	ENW	ENW	ENWT	ET
Pipefitter	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENT	ENT	EN	ET	EN	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	EN	EN	EN	EN	EN	EN	E	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	ET	nd	nd	E	EN	ENT	W	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	ENT	ENT	ENW	EN	E	ET	ENW	nei	EWT	EWT	EWT	EWT	ENW	EW	nd	nd
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	ET	ET	nd	nd	nd	nd	W	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	ENT	ENT	ENT	ENT	nd	nd	EW	ENW	nei	EW	EW	nei	W	EW	nd
Sheetmetal Worker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nei	E	nd	nd	nd	NW	ET	ET	ENWT	nd	nd	nd	nd	nd	nd
Sheetmetal Worker	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	EN	EN	EN	ENT	EN	E	EN	ET	ENWT	ENW	ENW	ENW	ENW	ENWT	EWT	EWT
Truck Driver	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	NT	nd	nei	nei	nei	E	E	E	E	nd	nd	nd	nd	nd	nd	nd	nd
Welder	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	nd	nd	nei	nei	nd	nd	W	nd	nd	nd	nd	nd	nd	nd	nd	nd
Welder	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	nd	nd	E	EN	E	nd	nd	W	ENWT	ENW	ENWT	ENW	nei	nei	nei	EW
Boilermaker	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENT	ENT	ENT	ENT	EN	ENW	E	EN	E	EW	ENW	ENW	W	nd	nd	nd
Construction Worker	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	nei	nei	W	ET	EWT	ENT	ENW	NW	ENW	ENW	nd	nd
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	W	N	nd	NW	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	T	ENT	ENT	ET	ENT	ENT	EWT	ENT	EWT	ENWT	ENWT	ENWT	nd	nd	nd	nd
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	EN	ET	ENT	ENT	EWT	ENWT	ET	EWT	ENWT	ENWT	EWT	nd	nd	nd	nd
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	ET	EN	NW	W	nei	nei	N	EW	E	EW	EW	EW	E	nei	EW
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	ENT	EN	EN	ENT	ENT	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	EN	E	E	ENW	EW	EWT	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	ENT	ENT	ENT	ET	ENWT	ET	EWT	EWT	EWT	nd	nd	nd	nd	nd	nd
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ET	ET	nd	EN	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	ENT	ENT	ENT	ENT	ET	ENT	ENWT	EWT	ENWT	ENWT	ENWT	nd	nd	W	nd
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	E	E	E	EN	EW	EN	ENWT	EWT	W	W	nd	W	ENW	EW
Laborer	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENT	E	N	EN	EN	EN	ENT	ENT	EWT	EWT	ENW	NW	nei	W	nd	nd
Millwright	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	T	T	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Painter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ET	ET	ET	ET	nd	nd	EWT	ET	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	EN	EN	ENW	EN	EN	ENW	ENWT	EWT	ENWT	ENWT	EWT	EW	ENWT	ENT	ENT
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	ENW	E	EN	EN	nei	nei	nei	nei	nei	nei	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	N	ENT	EN	EN	EN	ENWT	E	EWT	EWT	EWT	EWT	ENWT	nei	nei	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ET	ENT	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	T	ET	E	ENW	ET	EW	EW	E	EW	E	EN	EW	W	EW	E	E
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	N	nei	ET	ENT	ET	ENT	E	nei	EWT	EW	EWT	ET	nei	nei	nei	nei
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ET	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	T	ENT	ENT	ENT	ENT	ENT	EW	ET	ENW	ENWT	nd	EW	W	nei	EWT	N
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	nei	W	nei	NWT	EW	ENWT	EWT	EWT	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	EN	ENT	NT	ENT	ENT	nd	nd	EW	ENW	ENW	ENW	W	EW	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	EN	E	E	EN	ENW	EW	EW	EW	E	ENWT	ENWT	ENW	ENW	ENWT	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	nd	nd	E	EW	E	EW	nei	EWT	nd	nd	nd	nd	nd	nd
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	ENT	ET	EN	EN	ENW	EN	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ET	ET	ENT	ENT	ENT	ENWT	ENW	E	EW	EWT	nd	nd	nd	nd	EW	EW
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	E	E	E	EW	EN	EW	E	ENWT	ENW	W	nei	W	W	EW

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	W	W	E	ENWT	EW	W	W	W	E	nd
Truck Driver	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	T	nei	EN	nei	E	EN	EW	EW	EWT	ENT	ENWT	EWT	EWT	EW	EW	EW
Carpenter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	nei	N	E	EWT	ENWT	EW	ENWT	nd	nd	nd	nd
Carpenter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	ET	ENT	ENT	E	ENWT	EWT	ENWT	EW	ENWT	ENW	ENW	ENW	ENW
Carpenter	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nd	nd	EW	E	ENT	ENWT	ENWT	EWT	ENWT	W	nd	nd
Driver	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	ENT	EN	EN	EN	ENW	E	E	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	ET	EWT	EWT	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nd	nei	W	W	nd	EWT	EWT	nd	nd	nd	nd	nd	nd
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	nei	N	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	N	NT	EN	nei	W	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EWT	ET	ENT	ENT	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	E	E	ENT	EW	EWT	EWT	EW	ENW	ENW	ENW	ENW	ENW	ENW
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENT	ET	ET	ENT	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	ET	ENT	EN	EN	E	EWT	EWT	ENW	EW	ENW	ENW	ENW	ENW	ENW
Heavy Equipment Operator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Heavy Equipment Operator	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	EN	nei	nei	nei	nd	EW	ENWT	EW	ENWT	EWT	W	nd	nd	nd
Heavy Equipment Operator	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	EN	E	ENW	ENW	E	EW	ENW	ENW	EW	EW	E	nd	nd
Iron Worker	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	E	E	ENW	ENW	EW	E	EW	ENT	W	nd	nd	nd	nd	nd
Iron Worker	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	EN	E	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Iron Worker	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	E	W	ENW	EW	ENW	ENW	ENW	ENWT	W	nd	nd	NW
Iron Worker	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	E	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Iron Worker	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Iron Worker	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	EN	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Iron Worker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	T	ET	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Iron Worker	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	E	E	E	EN	nei	W	nd	nd	nd	nd	nd	EW	E

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
Laborer	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	ET	EN	ENW	EN	ENW	EW	E	nd	nd	nd	nd	nd	nd	nd	
Laborer	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	E	E	E	EW	ENWT	ENWT	ENWT	ENWT	ENT	ENWT	EW	nd	
Laborer	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	nd	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Millwright	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	nd	nd	W	nd	N	N	nd	ENWT	EWT	EW	nd	nd	nd	nd	
Millwright	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENT	N	NW	EN	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Painter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ET	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Painter	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	EN	EN	EN	ENT	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	N	N	nd	nd	E	nd	W	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	E	E	E	E	E	E	E	EN	EN	EN	ENT	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	ENT	E	EN	ENT	ENW	ET	ENWT	ENW	EN	ENWT	nd	nd	nd	nd	
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	N	ET	ET	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	EN	E	EW	E	EN	ENW	ENWT	nd	nd	nd	nd	nd	nd	
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	N	nei	EN	E	ET	EWT	EWT	ENWT	ENWT	ENW	ENW	ENW	ENW	ENWT	
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	ENT	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Sheet Metal	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	EN	EN	nd	WT	ENW	E	ENW	ENW	EN	ENW	ENW	EW	nd	nd	
Sheetmetal Worker	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nd	nei	nei	nei	nd	nd	nd	nd	nd	nd	nei	nei	nei
Truck Driver	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Welder	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Boilermaker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENW	ENT	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Boilermaker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	E	E	E	E	E	E	ENT	ENT	ET	nd	nd	nd	nd	
Carpenter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	N	ET	ENW	EW	nd	EW	ENW	ENWT	ENWT	nd	nd	nd	nd	nd	
Carpenter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	E	E	EN	E	NW	EWT	ENWT	nd	nd	nd	nd	nd	nd	
Carpenter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	E	EWT	EWT	ENWT	ENWT	EW	nei	nei	nd	nd		
Carpenter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	E	nd	nd	E	EWT	ENWT	ENW	EW	nd	nd	nd	nd	nd	
Carpenter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	E	E	nei	EWT	ENT	ET	ENWT	EWT	ENW	EWT	ENW	EW	EW	
Concrete	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	EWT	ENWT	ENWT	ENWT	EW	nei	nei	nei	nd	
Construction Worker	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	E	E	EW	EWT	EWT	EW	ENWT	ET	EW	W	nd	nd	

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Driver	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	E	EN	E	ENW	E	ENW	ENWT	ENW	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENW	ET	ENT	ENWT	EWT	ET	EWT	ENWT	ENWT	ENWT	ENWT	nd	nd	nd
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	W	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	ET	E	E	nd	nd	nd	nd	nd
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	EN	E	EN	EW	EW	E	nei	nei	nei	nd	nd	nd	nd
Electrician	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	E	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	NW	NW	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	EN	ENT	ENT	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	E	nd	nd	ENW	ENW	EW	ENW	ENW	ENW	ENW	ENW	EWT	EWT
Electrician	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	E	E	NT	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	ENW	EN	EW	EN	EW	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	EWT	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	E	EN	E	E	E	ENWT	ENWT	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	nei	nei	EN	EWT	EWT	EWT	ENWT	ENWT	EWT	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	E	E	E	ET	ET	ET	ET	ENT	nd	nd	nd	nd
Heavy Equipment Operator	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	E	EW	EN	E	EWT	ENWT	ENWT	EWT	EW	ENWT	ENWT	nd
Heavy Equipment Operator	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	nei	E	ENWT	EWT	ENWT	EN	NW	NW	W	nei
Heavy Equipment Mechanic	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENW	EN	E	E	EN	EW	ENW	ENW	ENW	EW	ET	nd	nd	nd
Heavy Equipment Operator	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	EN	EN	EN	E	ENW	EW	ENW	ENWT	ENW	ENW	ET	ENWT	ENT
Heavy Equipment Operator	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	EN	EW	E	EN	EW	ENW	ENW	ENW	EW	EW	E	E
Heavy Equipment Operator	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	N	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Heavy Equipment Operator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	EN	E	EN	EW	EW	ENW	ENW	ENWT	ENW	ENW	ENW	nd	nd

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Heavy Equipment Operator	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	nei	E	E	EW	EN	EWT	ENWT	EW	EW	W	nd	nd	nd
Heavy Equipment Operator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	ENT	ENT	EN	EN	EW	EWT	EWT	nd	nd	nd	nd	nd	nd
Heavy Equipment Operator	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	N	N	E	EW	ET	E	EW	EN	W	nei	W	ET	nei	nei
Heavy Equipment Operator	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	W	W	nd	nd	nd	nd	nd	nd	nd	nd	nd
Insulator	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	EN	EN	EN	ENW	EW	EW	ENW	ENT	ENT	nei	E	E	nd
Insulator	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	nd	nd	E	W	nd	nd	nd	nd	nd	nd	nd	nd
Insulator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	NW	nei	nd	nd	W	ENWT	nei	nd	nd	nd	nd	nd	nd
Iron Worker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	EN	NT	nd	W	E	EW	ENWT	ENWT	EW	nd	nd	nd	nd
Iron Worker	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	E	NW	E	EWT	EWT	EWT	EW	EW	EW	EWT	EWT	ET
Iron Worker	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Iron Worker	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	E	E	E	EW	E	EW	nei	EW	nei	W	nd	nd
Iron Worker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	E	nd	EWT	E	ENWT	nd	nd	nd	nd	nd	nd	nd
Iron Worker	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Iron Worker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	E	E	E	E	EWT	ENWT	EWT	nd	nd	nd	nd	nd
Ironworker	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	W	nd	nd	nd	nd	nd	nd	nd	nd	nd
Ironworker	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Laborer	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Laborer	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Laborer	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	E	EN	E	EN	EW	ENW	ENWT	ENWT	ENW	ENW	EN	ENW
Laborer	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	T	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Laborer	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	nei	EW	EW	ENWT	ENWT	nd	nd	nd	nd	nd
Laborer	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	E	ENW	nei	nei	nei	nei	nei	nei	nei	nei	nei
Laborer	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	E	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Mason	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Millwright	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	ET	ENT	W	W	E	ENWT	nd	nd	nd	nd	nd	nd
Pipefitter	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	EN	nei	W	NW	nei	EWT	E	E	E	nd	EW	nd	E
Pipefitter	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

ATTACHMENT B SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Pipefitter	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	ENT	W	NW	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	N	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENT	EN	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	NW	E	EW	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	ENT	N	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	N	N	NW	EN	E	ENW	EW	ENW	W	nei	W	nei	E
Pipefitter	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	EN	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nd	W	nei	nd	nd	nd	nd	nd	W	nd	nd	nd
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EWT	EN	ENT	ET	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipe worker/ Welder	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	EN	EN	ENWT	E	E	ENWT	ENWT	ENWT	EWT	ENWT	nd	nd	nd
Sheetmetal Worker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	NW	ENWT	EWT	ENWT	EW	ENW	ENW	ENW	nd	nd
Sheetmetal Worker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	ENT	ENWT	E	ENT	EWT	ENWT	EN	ENWT	ENW	EWT	nd	nd
Transportation	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	N	EN	EN	E	EW	E	ENW	ENW	ENW	ENWT	ENW	ENW	EW	E
Truck Driver	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	EW	ENW	EWT	ENWT	ENW	EW	nd	nd	nd	nd
Truck Driver	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	EW	ENW	EW	EW	EN	ENWT	nd	nd	nd	nd	nd
Truck Driver	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	EN	EN	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Truck Driver	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	EN	N	EW	ENW	EW	ENWT	ENW	ENW	ENWT	nd	nd	nd
Welder	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Boilermaker	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Boilermaker	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Boilermaker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENT	EN	W	EW	EN	EWT	ENWT	EWT	nd	nd	nd	nd	nd	nd
Carpenter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	EW	W	ENWT	nd	nei	nei	nd	nd	nd	nd	nd

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Carpenter	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Carpenter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	W	EWT	EWT	ENWT	ENWT	EW	nd	nd	nd
Carpenter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	nd	nd	nd	W	EWT	nd	nd	nd	nd	nd	nd	nd
Concrete	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Driver	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	N	E	E	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	EW
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	ET	ET	EW	ENW	ENWT	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	NW	N	N	EW	EWT	EWT	ENW	ENW	EW	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	EN	EW	EW	ENWT	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ET	ENT	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	W	nd	E	EWT	E	nei	nei	nei	nd	nd	nd	nd
Electrician	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	EW	EWT	EWT	ENWT	ENWT	ENWT	nd	W	nd	
Electrician	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	EN	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	EN	EWT	E	ENWT	EWT	ENWT	ENWT	EWT	ENW	NW	NW	EWT
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	nei	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	W	ET	EWT	EWT	ENWT	ENW	nd	nd	nd	nd
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	E	W	nd	EWT	ENWT	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	ENWT	EW	ET	nd	nd	nd	nd	nd	nd
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	N	ENWT	ET	ENWT	EWT	ENWT	ENT	EWT	EW	nd	nd	nd
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	nd	nd	nd	W	nd	nd	W	EW	nd	W	nd	nd
Electrician	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nd	EW	E	EWT	nd	nd	nd	nd	nd	nd	nd
Electrician/Welder	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	EN	ENW	EW	EN	EW	EW	ENW	ENW	nd	nd	nd	nd
Heavy Equipment Operator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	N	W	EW	E	ENW	ENW	ENW	ENW	nd	nd	nd	nd
Heavy Equipment Operator	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	N	E	E	E	EW	EWT	ET	EW	EW	W	nd	nd	nd
Heavy Equipment Operator	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	ENW	EW	EW	ENW	ENWT	EW	W	nei	nei	nei
Heavy Equipment Operator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	EW	ENWT	nd	nd	nd	nd	nd	nd	nd	nd	nd
Insulator	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	nd	W	EW	EN	EW	E	ENW	N	W	nd	nd	nd
Insulator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	T	N	EW	EN	ET	EWT	nd	nd	nd	nd	nd	nd	nd
Insulator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	ENT	ENW	ENW	nd	nd	nd	nd	nd	nd	nd	nd
Insulator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	ET	ENT	E	EN	nd	nd	nd	nd	nd	nd	nd	nd
Iron Worker	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nei	W	nd	nd	nd	nd	nd	nd	nd	nd	nd
Iron Worker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	E	E	ENW	EW	EW	ENW	ENW	nd	nd	nd	nd
Iron Worker	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Ironworker	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Ironworker	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	nd	EW	EN	ENW	EW	nd	W	nd	nd
Laborer	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	N	nei	EW	EW	ENWT	nd	nd	nd	nd	nd
Laborer	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	nei	nei	nei	nei	nei	nei	nei	nei	nei
Laborer	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	nei	ENWT	EWT	EWT	W	W	W	nd	nd
Laborer	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	EN	E	nei	E	EW	EW	EW	EW	nei	nd	nd	nd

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Laborer	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	E	W	nd	nd	nd	nd	nd	nd	nd	nd	nd
Laborer	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	EW	ENWT	nd	nd	nd	nd	nd	nd	nd
Laborer	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	EN	ENW	ENWT	EW	ENWT	ENWT	EW	EWT	EW	nd	nd
Laborer	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	EW	ET	ENW	EW	E	nd	nd	nd	nd	nd	nd
Laborer	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	EW	E	EW	nd	nd	nd	nd	nd	nd	nd	nd
Laborer	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	E	EW	E	nei	EW	W	nd	nd	nd	nd	nd
Painter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	nei	ENWT	EWT	EWT	EWT	ENWT	ENW	ENWT	ENW	ENWT	nei	nei
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENT	EN	EN	ENW	ENW	ENW	ENWT	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	EWT	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENW	EN	EN	ENW	EW	ENW	ENWT	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENT	ENT	ENT	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	N	E	EN	ENW	EW	ENWT	EWT	nd	nd	nd	nd	nd	nd
Pipefitter	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	WT	ENT	ENW	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	ENW	EW	ENW	ENWT	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	EN	ENWT	EWT	ENT	EWT	ENWT	W	EN	nd	nd	nd	nd
Pipefitter	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	ENT	EN	ENW	EN	EN	ENW	ENW	ENW	ENW	NW	ENWT	EW
Sheetmetal Worker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nd	ENWT	nd	nd	nd	nd	nd	nd	nd	nd
Sheetmetal Worker	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Sheetmetal Worker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Sheetmetal Worker	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	EN	N	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Truck Driver	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	nei	E	W	EW	EW	ENW	ENW	ENW	EW	EW	nd	nd
Truck Driver	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	EN	EN	ENWT	E	EW	ENW	ENW	ENWT	E	nei	nd	nd

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
Truck Driver	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	E	EW	EW	nd	nd	nd	nd	nd	nd	nd	nd	
Welder	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Welder	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Welder	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	nd	nd	nd	nd	EW	ENWT	ENW	ENWT	nd	nd	nd	nd	
Welder	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	N	EWT	ENW	ENWT	ENW	nei	nei	ENW	ENW	
Welder	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	EN	EN	EN	E	EW	ENWT	nd	nd	nd	nd	nd	nd	
Welder	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ET	ET	E	EN	EW	NW	nd	nd	nd	nd	nd	nd	nd	
Welder	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	EW	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Carpenter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	W	EW	E	ENWT	EWT	EW	nd	nd	nd	nd	
Carpenter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	EN	N	ENWT	EWT	ENWT	ENWT	EWT	EW	nd	nd	nd	
Carpenter	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	nei	nd	nd	nd	nd	nd	nd	nd	
Carpenter	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	W	nei	EW	ENW	EW	W	nd	nd	nd	nd	
Concrete	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	EW	EN	EW	W	nd	nd	nd	nd	nd	nd	nd	
Driver	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	N	W	EWT	EW	ENT	ENW	EN	ENW	ENW	EW	E	nd	
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	ENW	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Electrician	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	N	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENWT	EWT	nd	nd	ENWT	nd	nd	nd	nd	nd	nd	nd	
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	nd	nd	E	EW	nd	nd	nd	nd	nd	nd	nd	
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	nei	EN	ENWT	EWT	nd	nd	nd	nd	nd	nd	nd	
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	NW	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Electrician	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	N	N	nei	EW	E	nd	nd	nd	nd	nd	nd	nd	
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	EN	ENW	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	W	EWT	ET	EWT	E	nei	EW	W	nei	nei	
Electrician	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	nd	EW	EN	EW	E	nd	nd	nd	nei	nei	nei
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	NW	ENW	ET	EWT	ENWT	ENWT	ENWT	ENW	ENW	nd	nd	
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	NW	nd	W	N	ENWT	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENW	NW	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	NW	W	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	NW	EW	E	ENWT	ENWT	ENW	ENWT	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	ENT	ENT	EWT	EWT	ENW	ENW	ENWT	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	EN	W	nd	nei	EWT	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	EW	E	E	EN	ENWT	EWT	nd	nd	nd	nd	nd
Electrician	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	N	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	ENW	E	ENWT	ENWT	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	EN	EN	ET	EWT	E	ENW	EN	W	nd	nd	nd
Electrician	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	nei	nei	EW	ENW	ENWT	EWT	EWT	EWT	EWT	EWT	EW
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	EN	nd	EWT	EWT	ENWT	EWT	nd	nd	nd	nd	ENW
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	EN	EWT	EWT	ENWT	EWT	ENWT	EWT	EW	EW	ENWT	ENWT
Heavy Equipment Operator	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	E	EW	EWT	EWT	EWT	EWT	EW	ENW	EN	ENW
Heavy Equipment Operator	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd
Iron Worker	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Iron Worker	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nd	nd	EW	EW	ENWT	EW	nei	W	nei	E
Iron Worker	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	nei	W	ENWT	E	nd	nd	nd	nd	nd	nd
Laborer	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nd	EW	E	ENW	ENWT	EW	EW	EW	nei	nei
Laborer	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	E	EW	E	nei	nd	nd	nd	nd
Millwright	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ET	EWT	EW	ENT	EWT	ENW	ENWT	ENWT	ENW	ENW	nd	nd
Pipefitter	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	EN	ENWT	EWT	ENWT	ENW	ENWT	EW	EW	EW	EW	E
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENW	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	EW	E	E	ENW	ENW	ENW	ENW	ENW	ENW	EN	ENW
Pipefitter	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	E	N	EW	ENWT	nd	nd	nd	nd	nd	nd
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	E	E	ENWT	EWT	ENWT	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	nd	W	nei	nei	nei	EW	EW	W	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	E	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	nd	nd	W	EWT	nd	W	EWT	nd	W	EW	nd
Welder	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	EWT	nd	nd	nd	nd	nd	nd	nd
Boilermaker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENW	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Boilermaker	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	E	E	E	ENT	ENT	nei	nd	nd	nd	nd
Boilermaker	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	EWT	EN	EW	ENW	ENWT	ENWT	ENWT	ENWT	EW	W
Carpenter	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Carpenter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EWT	ENW	EN	ENWT	ENWT	EWT	nd	nd	nd	nd	nd
Carpenter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	W	EWT	ENW	E	ENW	NW	W	ENWT	EW	EW
Electrician	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENW	ENW	T	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	EWT	ENT	ENWT	ENW	W	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	EW	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	EW	ENWT	EWT	ENW	ENWT	nd	nd	nd	nd	nd
Electrician	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	EW	EW	W	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	ENW	ENW	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	ENWT	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	E	EW	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	ENW	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	EN	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	W	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENW	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	E	EN	ENW	ENWT	NWT	W	nei	nei	nei	nd

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Electrician	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	EWT	ENWT	E	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	E	ENWT	EWT	ENW	EW	ENW	ENW	ENW	EN	ENW
Heavy Equipment Operator	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	NW	EW	EW	E	ENW	ENW	ENW	ENW	ENW	EN
Iron Worker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	ET	ET	ENWT	ENWT	ENWT	ENWT	ENW	EWT	EWT	ENW
Laborer	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	E	ET	EW	EW	ET	W	W	nei	nei	nd
Laborer	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENW	ENW	ET	EWT	ENWT	ENWT	EWT	ENWT	ENWT	EWT	ENWT
Millwright	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	N	ENT	ET	EWT	ENWT	ENWT	ENWT	ENWT	ENWT	W	nd
Painter	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nd	nd	nd	nd	nd	nd	nd	nd
Painter	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	W	nd	nd	nd	nd	nd	nd	nd	nd	nd
Painter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	E	EW	EWT	ENWT	ENW	ENWT	ENW	ENW	EN	ENW
Painter	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	nei	ENWT	nd	nd	nd	nd	nei	nei	nd	E
Painter	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENW	EWT	ET	EWT	ENW	ENW	W	W	nd	nd	nd
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENT	ENWT	ET	EWT	ENW	ENW	ENW	ENW	N	ENW	E
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EWT	ENWT	EN	ENW	ENW	ENWT	ENW	N	NW	EW	nei
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	N	W	ENWT	EWT	ENWT	nd	nd	nd	nd	nd	nd
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	nei	nei	nei	nd	nd	nd	nd
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENW	E	ENT	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENW	E	ENW	EW	EN	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	EN	EN	EW	ENWT	ENW	ENWT	nd	nd	nd	nd
Roofer	No - External but No Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	nd	nd	nd	nd	nei	nd	nei	nei	nei	nd
Sheetmetal Worker	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	EW	EN	nei	EW	EW	W	EW	EW	nd	nd
Welder	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nd	W	W	EW	nd	nd	nd	nd	nd
Welder	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	EW	nd	nd	nd	nd	nd	nd	nd	nd	nd
Boilermaker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENW	E	EW	ENW	ENW	EW	nd	nei	nei	nd
Carpenter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	EN	ENW	ENW	ENW	EN	ENW	ENW	ENW	EN
Concrete	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	W	EWT	ENWT	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	E	EW	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	EN	EWT	ENT	ENWT	W	nd	nd	nd	nd

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	E	ENWT	nd	nd	nd	nd	nd	nd	nd
Electrician	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	ET	EWT	EWT	E	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	N	EWT	ENWT	ENWT	ENWT	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENWT	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	EN	ET	EWT	E	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	W	EWT	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	nei	EWT	ENWT	ENWT	ENWT	ENWT	nd	nd	nd
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	nei	nei	nei	E	EWT	E	EW	E	EN
Electrician	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	EN	EWT	EWT	E	nd	nd	nd	nd	nd
Insulator	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	EW	E	nd	nd	nd	nd	nd	nd	nd
Laborer	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	E	EN	EW	ENW	W	nd	nd	nd	nd
Laborer	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	ET	EW	EW	EW	W	W	W	nd	nd
Laborer	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	ENWT	EWT	EWT	ENWT	EW	nd	nd	nd	nd
Laborer	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	NWT	nd	nd	nd	nd	nd	nd	nd	nd	nd
Laborer	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	EW	ET	ENW	ENW	ENWT	ENW	ENWT	nd	nd
Laborer	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	ENT	ENWT	nd	nd	nd	nd	nd	nd	nd
Laborer	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	ENWT	ENWT	ENWT	ENWT	EWT	EWT	EWT	EWT	EN
Painter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENWT	EW	ENWT	nd	nd	nd	nd	nd	nd	nd
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	E	EW	ENWT	EWT	ENWT	W	nei	W	ENW
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	E	E	ENWT	EN	ENW	ENW	EW	EW	ENW
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	NWT	EWT	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	N	EWT	EWT	nd	nd	nd	nd	nd	nd
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	NW	nei	E	ENW	ENW	ENWT	ENWT	ENWT	EWT	EWT
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	nei	nei	ENWT	ENW	nd	nd	nd	nd	nd
Welder	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	EWT	nd	nd	nd	nd	nd	nd	nd	nd
Welder	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	ENT	ENW	ENW	ENW	ENWT	ENW	ENW	ENW	nd
Carpenter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EWT	EWT	nd	nd	nd	nd	nd	nd	nd
Carpenter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EWT	ENWT	nd	nd	nd	nd	nd	nd	nd

ATTACHMENT B SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Carpenter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ET	ENW	EN	ENWT	ENW	EN	ENW	EW	nd
Carpenter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EWT	ENWT	nd	nd	nd	nd	nd	nd	nd
Concrete	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	ET	ENT	ET	E	ENT	nd	nd	nd
Concrete Worker	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nei	nei	EW	E	nei	nei	E
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	ENWT	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENW	ENWT	EWT	EW	W	nd	EW	nei	nei
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	ENW	ENWT	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	EWT	ENWT	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EWT	EWT	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	EWT	EWT	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	nei	nei	ENWT	nei	W	W	nd	nd
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENT
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	WT	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	W	ENWT	nd	nd	nd	nd	nd	nd
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	ENW	EN	ENW	ENW	ENW	ENW	ENW	EN
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	E	W	ENWT	EWT	ENW	ENW	ENW	ENWT
Electrician/ Mechanic	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	ET	EWT	EWT	EW	EW	EW	EW	EW
Heavy Equipment Operator	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	EW	ENWT	ENWT	ENWT	ENW	W	nd	nd
Heavy Equipment Operator	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	EW	ENW	ENW	W	nei	W	EW	W
Iron Worker	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	EW	ENW	ENW	EW	EWT	NW	nd	nd
Iron Worker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENW	ENW	ENW	ENW	ENWT	ENWT	nei	nei	nd
Laborer	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	EW	ENW	ENW	ENW	ENW	ENWT	nd	nd
Laborer	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	EW	ENWT	ENWT	ENWT	EW	EW	W	nd
Laborer	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EN	EW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Laborer	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	EW	ENW	ENWT	nd	nd	nd	nd	nd
Laborer	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EWT	EWT	ENWT	ENWT	nd	W	nd	nd	nd
Laborer	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EWT	EWT	ET	nei	W	nd	nd	nd	nd

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Laborer, Driver	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	ENWT	EWT	ENT	ENW	EW	nei	nd	nd
Sheetmetal Worker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	ET	ENW	ENWT	ENWT	nd	nd	nd	nd
Sheetmetal Worker	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	EW	EN	ENW	nei	EW	nd	nd	nei
Truck Driver	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	E	EW	EW	EW	W	nd	nd	nd
Welder	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EWT	EWT	ENW	EWT	EWT	nei	W	W	nd
Boilermaker	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENT	nd	nd	nd	nd	nd	nd	nd
Boilermaker	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EWT	ENT	EWT	EW	nei	W	nd	EW
Carpenter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENWT	nd	nd	nd	nd	nd	nd	nd
Carpenter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EWT	ENWT	nd	nd	nd	nd	nd	nd
Carpenter	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENWT	nei	nd	nd	W	nd	nd	nd
Carpenter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENWT	nd	nd	nd	nd	nd	nd	nd
Concrete	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EWT	ENWT	ENWT	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	EWT	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EWT	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EWT	EWT	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENWT	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENWT	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EWT	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENWT	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EWT	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENWT	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	NW	W	EW	EWT	ENW	EW	EW	EW
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	ENWT	nd	nd	nd	nd	nd	nd
Electrician1	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENWT	ENWT	EW	EW	EW	EW	EW	nd
Heavy Equipment Operator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENWT	ENW	ENW	ENW	ENW	ENW	ENW	nd
Heavy Equipment Operator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENWT	nd	nd	nd	nd	nd	nd	nd
Insulator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENWT	ENW	EN	ENW	ENWT	EWT	EW	nd

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Insulator	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Ironworker	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	ENWT	nd	nd	nd	nd	nd	nd
Laborer	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	ENWT	nd	nd	nd	nd	nd	nd
Laborer	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENWT	ENWT	ENWT	nd	nd	nd	nd	nd
Laborer	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENW	ENW	ENWT	ENW	ENW	ENW	nd	nd
Laborer	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	EW	nd	nd	nd	nd	nd	nd
Laborer	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	EW	EW	W	nd	nd	nd	nd
Laborer	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	ENWT	nd	nd	nd	nd	nd	nd
Laborer	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Operating Engineers; Crane Operator	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	ENWT	ET	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	ENW	ENW	ENWT	nd	nd	nd	nd
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EWT	EW	EW	EW	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	nd	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	nd	nd	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	EWT	nd	nd	nd	nd	nd	nd
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Truck Driver	Yes - Internal after Last External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENW	EW	ENWT	ENW	EW	W	nd	nd
Truck Driver	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	E	ENW	EW	EW	EW	EW	E	nd
Welder	No - External after Last Internal Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EWT	ENWT	ENWT	ENWT	nd	W	EW	E
Welder	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	ENWT	nd	nd	nd	nd	nd	nd
Truck Driver	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENWT	nd	nd	nd	nd	nd
Pipefitter	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	ENW	EW	nd	nd	nd	nd
Electrician, Power Lineman	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pipefitter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	ENW	ENW	ENW
Sheet Metal	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	W	EW	ENW	ENWT
Carpenter	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Electrician	NA - Employment after 1997	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	ENW	ENW

**ATTACHMENT B
SUBCONTRACTED CONSTRUCTION TRADE WORKER CLAIMANTS (continued)**

Craft	Internal Monitoring Evaluation	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Electrician	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nd	nd
Pipefitter	NA - No External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nei	nei	nd
Welder	Yes - Internal in Last Year of External Monitoring	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	EW	nd