

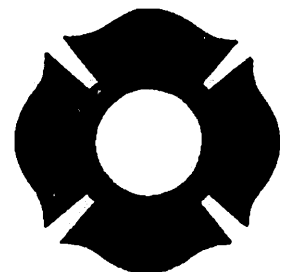
LEGISLATIVE ASSEMBLY OF THE
NORTHWEST TERRITORIES
8TH ASSEMBLY, 65TH SESSION

TABLED DOCUMENT NO. 6-65

TABLED ON May 8, 1978



ANNUAL REPORT 1977 SAFETY DIVISION



Department of Public Services
Government of the Northwest Territories



ANNUAL REPORT
OF THE
FIRE MARSHAL
GOVERNMENT
NORTHWEST TERRITORIES

1977

TABLE OF CONTENTS

Safety.....	Page	1 - 2
Section I		
Fire Chiefs.....	Page	4 - 7
Section III		
Causes of Fires.....	Page	20 - 27
Section IV		
Occupancy Group Classification.....	Page	28 - 31
Section V		
Large Loss Fires.....	Page	32 - 35
Section VI		
Fire Deaths and Injuries.....	Page	36 - 37
Section VII		
Arson Investigation and Allied Crimes.....	Page	38 - 39
Section VIII		
Inspections.....	Page	40 - 42
Section IX		
Plan Review.....	Page	43 - 44
Section X		
Training Programs.....	Page	45 - 48
Section XI		
Industrial Safety.....	Page	49 - 51
Section XII		
Film Library.....	Page	52 - 57
Section XIII		
Mechanical - Electrical & Elevators.....	Page	58 - 63

ANNUAL REPORT OF THE SAFETY DIVISION

The Division is divided into 3 sections. The Fire Safety section administers the Fire Prevention Ordinance and regulations and the Petroleum products Ordinance and its regulations. The Industrial Safety section administers the Industrial Safety Ordinances and its regulations. These regulations came into force on July 1, 1977 and therefore only partial statistics are available. The Mechanical section administers the Boilers and pressure vessels Ordinances and its regulations, the Electrical Protection Ordinance and regulations and the Elevator regulations.

The Division continues to support safety programs sponsored by organizations and communities.

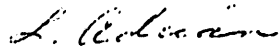
I regret that I have to include in the report that 6 deaths and 14 injuries occurred as a result of fires. Consumption of Alcohol and smoking were major factors in the causing of these deaths and injuries.

I am however pleased to report that the incidents of fires are the lowest they have been in 5 years. The inflationary factors in computing fire losses are significant and are taken into consideration when tabulating the fire losses

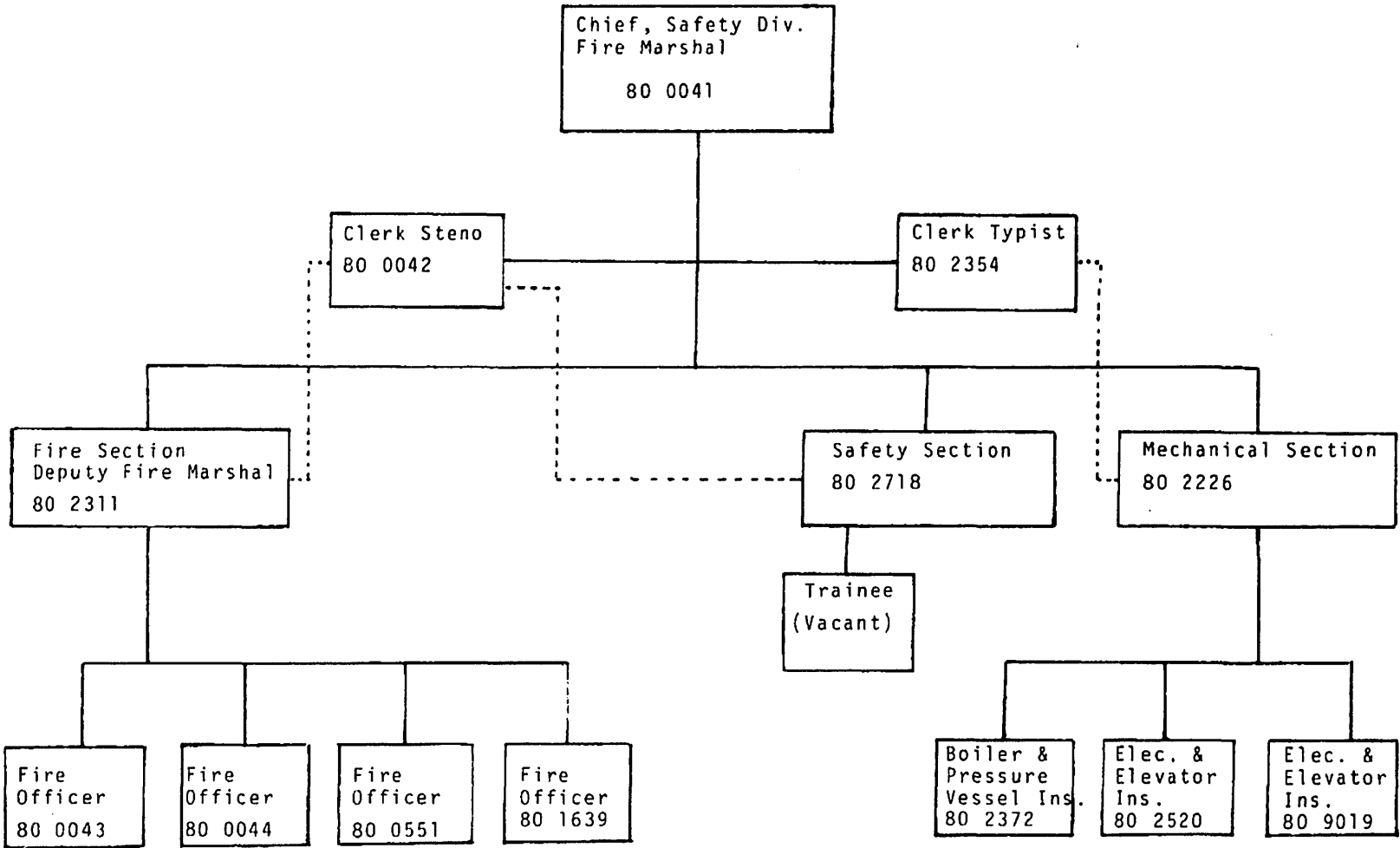
The accurate recording and investigation of industrial accidents will help us to present more realistic safety programs.

Public education in all areas of safety is continuing and is well received by the residents of the Northwest Territories.

The report contains 5 years of comparative statistics.



L. Adrian,
Chief Safety Division,
and
Fire Marshal, N.W.T.



FIRE CHIEFS

Aklavik	Danny Gordon
Arctic Bay	Tommy Tatatuapik
Arctic Red River	
Baker Lake	
Broughton Island	Mark Audlakiak
Cambridge Bay	R. Blair
Cape Dorset	Ping Attokie
Chesterfield Inlet	T. Kadluk
Clyde River	J. Enuaraq
Coppermine	
Coral Harbour	Alogut Kidlapik
Edzo	Guy Chamberlin
Eskimo Point	T. Taleriktok
Fort Franklin	Eugene Wasserman
Frobisher Bay	
Gjoa Haven	M. Augotitaoyok
Fort Good Hope	Alfred Masuzumi
Grise Fiord	Josephie Kiguktak
Hall Beach	Saul Gibbons
Hay River	Al Gagnon
Holman Island	Noah Akhiatak
Igloolik	T. Qamukak

FIRE CHIEFS

Inuvik	Bob Galloway
Lake Harbour	B. Joanasie
Liard	Charlie Hope
Fort McPherson	
Fort Norman	J. Neyelle
Norman Wells	Bill Ponzini
Pangnirtung	M. Quappik
Paulatuk	Dave Ruben
Pelly Bay	Raymond Kayasark
Pine Point	Mel Logan
Pond Inlet	A. Maktar
Port Burwell	P. Thomasie
Fort Providence	Francis Jenkins
Rae	Tim Jewett
Rankin Inlet	P. Noolook
Repulse Bay	J. Anawak
Resolute Bay	Walter Audia
Fort Resolution	Cecil Lafferty
Sachs Harbour	Sam Lennie
Sanikiluaq	C. Tooktoo
Fort Simpson	Gerry McGowan
Fort Smith	Howard Brazeau

FIRE CHIEFS

Spence Bay	D. Igutsaq
Nanisiuik	Horst Wist
Tuktoyaktuk	
Tungsten	G. Conners
Whale Cove	P. Kaludjak
Wrigley	G. Dimsdale
Yellowknife	Bob Oscroft
Pine Point Mine	Dave Calder
Giant - Yellowknife Mine	Ed Castillo
Imperial Oil - Norman Wells	Bill Wilson
Transport Canada - Inuvik	Cliff Jones
Norman Wells	J.G. Rodrigue
Yellowknife	C. Davign
Hay River	Earnest Imboe
Fort Smith	Earl Holley
Fort Simpson	Barry Ledoux

FIRE LOSSES

Five year comparison for each settlement.

We are currently in our sixth year of a computer print-out which provides us with much more relevant data such as time of the fire, day of the week, month, etc.. A very interesting statistic has been researched. The information obtained was applied to our public hazard awareness program.

Many of our fires start between the hours of 12:00 noon to 2:00 p.m. and 3:30 to 6:00 p.m.. Many of the fires started during that time were caused by children playing with matches. The basic reason is unsupervised children.

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Aklavik	1973	3	-	18,500.00	18,500.00
	1974	3	55,000.00	2,000.00	57,000.00
	1975	2	-	25,300.00	25,300.00
	1976	2	22,700.00	11,000.00	33,700.00
	1977	1	-	28,500.00	28,500.00
Arctic Bay	1973	-	-	-	-
	1974	2	-	50.00	50.00
	1975	1	-	7,400.00	7,400.00
	1976	1	30,000.00	12,000.00	42,000.00
	1977	2	-	400.00	400.00
Arctic Red River	1973	1	-	2,000.00	2,000.00
	1974	-	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
	1977	-	-	-	-
Baker Lake	1973	1	-	20,000.00	20,000.00
	1974	2	-	-	-
	1975	3	50,000.00	90,000.00	140,000.00
	1976	1	-	1,000.00	1,000.00
	1977	2	50,000.00	50,955.00	100,950.00
Broughton Island	1973	2	-	-	-
	1974	-	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
	1977	-	-	-	-

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Cambridge Bay	1973	7	707,000.00	377,050.00	1,084,050.00
	1974	1	-	150,000.00	150,000.00
	1975	7	1,200.00	25,250.00	26,450.00
	1976	3	-	16,350.00	16,350.00
	1977	1	-	11,000.00	11,000.00
Cape Dorset	1973	1	-	50.00	50.00
	1974	1	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
	1977	1	-	70,000.00	70,000.00
Chesterfield Inlet	1973	-	-	-	-
	1974	1	-	35,400.00	35,400.00
	1975	1	-	100.00	100.00
	1976	-	-	-	-
	1977	-	-	-	-
Clyde River	1973	1	-	13,000.00	13,000.00
	1974	-	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
	1977	-	-	-	-
Coppermine	1973	3	-	31,000.00	31,000.00
	1974	1	-	35,000.00	35,000.00
	1975	-	-	-	-
	1976	-	-	-	-
	1977	1	-	800.00	800.00

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Coral Harbour	1973	2	-	150.00	150.00
	1974	-	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
	1977	1	-	60.00	60.00
Edzo	1973	-	-	-	-
	1974	-	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
	1977	-	-	-	-
Enterprise	1973	-	-	-	-
	1974	1	500.00	-	500.00
	1975	-	-	-	-
	1976	-	-	-	-
	1977	-	-	-	-
Eskimo Point	1973	-	-	-	-
	1974	-	-	-	-
	1975	2	-	70,000.00	70,000.00
	1976	-	-	-	-
	1977	1	-	1,000.00	1,000.00
Fort Franklin	1973	-	-	-	-
	1974	-	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
	1977	2	-	70,150.00	70,150.00

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Frobisher Bay	1973	36	108,000.00	16,082.00	124,082.00
	1974	50	-	164,688.00	164,688.00
	1975	39	-	29,060.00	29,060.00
	1976	19	-	38,855.00	38,855.00
	1977	13	29,000.00	8,915.00	37,915.00
Gjoa Haven	1973	1	-	1,005.00	1,005.00
	1974	-	-	-	-
	1975	-	-	-	-
	1976	1	35,815.00	-	35,815.00
	1977	2	-	5,100.00	5,100.00
Fort Good Hope	1973	2	-	450.00	450.00
	1974	1	-	6,000.00	6,000.00
	1975	1	-	13,600.00	13,600.00
	1976	2	-	250.00	250.00
	1977	-	-	-	-
Hall Beach	1973	1	-	24,000.00	24,000.00
	1974	-	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
	1977	1	-	200.00	200.00
Hay River	1973	62	33,757.00	58,370.00	92,127.00
	1974	34	24,000.00	82,775.00	114,475.00
	1975	23	8,500.00	23,360.00	31,860.00
	1976	21	568,600.00	20,235.00	588,835.00
	1977	15	-	234,240.00	234,240.00

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Igloolik	1973	-	-	-	-
	1974	-	-	-	-
	1975	1	-	100,000.00	100,000.00
	1976	-	-	-	-
	1977	-	-	-	-
Holman Island	1973	-	-	-	-
	1974	-	-	-	-
	1975	-	-	-	-
	1976	1	-	100.00	100.00
	1977	-	-	-	-
Inuvik	1973	24	374,928.00	55,480.00	430,408.00
	1974	49	84,475.00	133,555.00	218,030.00
	1975	31	352,050.00	38,675.00	390,725.00
	1976	19	231,570.00	26,275.00	257,845.00
	1977	14	44,250.00	50,490.00	94,740.00
Lake Harbour	1973	-	-	-	-
	1974	-	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
	1977	-	-	-	-
Lac La Martre	1973	-	-	-	-
	1974	-	-	-	-
	1975	-	-	-	-
	1976	1	-	500.00	500.00
	1977	-	-	-	-

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Fort Liard	1973	-	-	-	-
	1974	4	1,100.00	1,030.00	2,130.00
	1975	2	-	7,900.00	7,900.00
	1976	2	15,000.00	500.00	15,500.00
	1977	1	-	1,900.00	1,900.00
Fort McPherson	1973	3	-	1,570.00	1,570.00
	1974	4	-	44,000.00	44,000.00
	1975	3	-	3,175.00	3,175.00
	1976	5	-	68,040.00	68,040.00
	1977	1	-	200.00	200.00
Norman Wells	1973	2	-	1,200.00	1,200.00
	1974	2	12,000.00	18,500.00	30,500.00
	1975	2	30,000.00	38,075.00	68,075.00
	1976	4	1,500.00	19,500.00	21,000.00
	1977	3	6,500.00	11,000.00	17,500.00
Fort Norman	1973	5	-	6,850.00	6,850.00
	1974	2	-	75.00	75.00
	1975	3	-	1,850.00	1,850.00
	1976	-	-	-	-
	1977	1	55,000.00	20,000.00	75,000.00
Pangnirtung	1973	-	-	-	-
	1974	4	100.00	35,800.00	35,900.00
	1975	-	-	-	-
	1976	4	-	480.00	480.00
	1977	-	-	-	-

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Pelly Bay	1973	-	-	-	-
	1974	2	-	35,200.00	35,200.00
	1975	1	-	9,000.00	9,000.00
	1976	2	-	50,100.00	50,100.00
	1977	-	-	-	-
Paulatuk	1973	-	-	-	-
	1974	-	-	-	-
	1975	1	-	800.00	800.00
	1976	-	-	-	-
	1977	-	-	-	-
Pine Point	1973	13	5,050.00	150.00	5,200.00
	1974	16	965.00	6,995.00	7,959.00
	1975	9	51,460.00	200.00	51,660.00
	1976	11	14,680.00	5,150.00	19,830.00
	1977	12	88,250.00	100.00	88,350.00
Pond Inlet	1973	1	-	1,350.00	1,350.00
	1974	-	-	-	-
	1975	-	-	-	-
	1976	1	-	67,000.00	67,000.00
	1977	2	125.00	400.00	525.00
Fort Providence	1973	1	-	400.00	400.00
	1974	-	-	-	-
	1975	-	-	-	-
	1976	1	-	31,000.00	31,000.00
	1977	1	-	300.00	300.00

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Rae	1973	4	-	37,595.00	37,595.00
	1974	3	300.00	-	300.00
	1975	4	-	12,105.00	12,105.00
	1976	3	-	6,100.00	6,100.00
	1977	2	-	8,300.00	8,300.00
Rankin Inlet	1973	2	1,000.00	100.00	1,100.00
	1974	4	-	13,750.00	13,750.00
	1975	4	7,000.00	275,000.00	282,000.00
	1976	-	-	-	-
	1977	1	-	36,000.00	36,000.00
Resolute Bay	1973	2	22,500.00	5,500.00	28,000.00
	1974	1	-	15,000.00	15,000.00
	1975	1	-	27,000.00	27,000.00
	1976	1	-	14,000.00	14,000.00
	1977	2	1,800.00	150.00	1,950.00
Fort Resolution	1973	1	-	13,000.00	13,000.00
	1974	2	-	-	-
	1975	-	-	-	-
	1976	8	31,050.00	71,770.00	102,820.00
	1977	-	-	-	-
Sachs Harbour	1973	-	-	-	-
	1974	2	-	1,550.00	1,550.00
	1975	-	-	-	-
	1976	1	300.00	-	300.00
	1977	-	-	-	-

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Sanikiluaq	1973	-	-	-	-
	1974	-	-	-	-
	1975	1	-	45,000.00	45,000.00
	1976	-	-	-	-
	1977	1	-	550.00	550.00
Fort Simpson	1973	18	50,875.00	51,900.00	106,775.00
	1974	27	29,487.00	23,450.00	68,934.00
	1975	9	20,800.00	107,250.00	128,050.00
	1976	8	18,250.00	53,525.00	71,775.00
	1977	2	-	21,700.00	21,700.00
Fort Smith	1973	6	10.00	23,800.00	23,810.00
	1974	12	12,175.00	516,600.00	528,775.00
	1975	7	31,000.00	4,325.00	35,325.00
	1976	2	-	1,600.00	1,600.00
	1977	2	-	7,100.00	7,100.00
Snowdrift	1973	1	-	19,000.00	19,000.00
	1974	1	-	5,500.00	5,500.00
	1975	-	-	-	-
	1976	1	-	2,300.00	2,300.00
	1977	-	-	-	-
Spence Bay	1973	-	-	-	-
	1974	2	25,360.00	37,000.00	62,360.00
	1975	-	-	-	-
	1976	-	-	-	-
	1977	1	-	100.00	100.00

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Trout Lake	1973	1	-	6,000.00	6,000.00
	1974	-	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
	1977	-	-	-	-
Tuktoyaktuk	1973	2	-	3,610.00	3,610.00
	1974	5	750,000.00	37,150.00	787,150.00
	1975	-	-	-	-
	1976	2	-	12,500.00	12,500.00
	1977	4	-	155,000.00	155,000.00
Unsettled	1973	14	372,868.00	26,550.00	399,418.00
	1974	7	439,862.00	20,500.00	460,362.00
	1975	20	535,300.00	95,000.00	630,300.00
	1976	12	164,000.00	70,860.00	334,860.00
	1977	17	37,625.00	109,710.00	147,335.00
Whale Cove	1973	-	-	-	-
	1974	-	-	-	-
	1975	1	-	45,000.00	45,000.00
	1976	1	-	30.00	30.00
	1977	-	-	-	-
Wrigley	1973	-	-	-	-
	1974	1	-	1,000.00	1,000.00
	1975	-	-	-	-
	1976	-	-	-	-
	1977	-	-	-	-

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Yellowknife	1973	194	178,278.00	64,895.00	239,173.00
	1974	140	59,455.00	12,810.00	72,265.00
	1975	68	122,918.00	48,711.00	171,629.00
	1976	46	310,900.00	41,115.00	352,015.00
	1977	61	293,802.00	27,455.00	321,257.00

TOTALS

1973	517	1,850,266.00	884,607.00	2,734,873.00
1974	377	2,877,719.00	1,324,727.00	4,202,456.00
1975	246	1,098,661.00	1,098,661.00	2,308,889.00
1976	185	1,444,365.00	738,135.00	2,182,500.00
1977	171	645,602.00	833,570.00	1,479,172.00

PER CAPITA LOSS

1973	71.18	
1974	113.58	
1975	62.40	
1976	57.43	
1977	39.47	*Not a final adjusted figure

Listing as to cause of fires:

1. Heating

1 Stoves, Furnaces and Boilers

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1973	70	400,267.00
1974	55	227,712.00
1975	38	673,625.00
1976	8	48,550.00
1977	25	184,400.00

a. Solid Fuel

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1973	7	49,250.00
1974	4	14,000.00
1975	5	13,980.00
1976	5	33,450.00
1977	4	84,950.00

b. Oil Fired

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1973	41	305,815.00
1974	45	113,112.00
1975	27	241,435.00
1976	7	18,200.00
1977	9	108,500.00

c. Gas Fired

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1973	12	40,202.00
1974	6	90,600.00
1975	5	418,210.00
1976	4	100,330.00
1977	1	250.00

11 Defective and Overheated Chimneys and Flues

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1973	5	2,350.00
1974	6	11,246.00
1975	4	175,550.00
1976	5	3,700.00
1977	2	7,100.00

111 Hot Ashes, Coals, Open Fires

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1973	19	1,017,210.00
1974	13	51,465.00
1975	13	40,850.00
1976	4	2,515.00
1977	3	850.00

2. Electrical Wiring and Appliances

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1973	24	294,170.00
1974	59	1,138,733.00
1975	40	177,765.00
1976	32	222,350.00
1977	34	408,332.00

3. Smoking

1 Matches

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1973	32	141,285.00
1974	60	34,490.00
1975	27	99,695.00
1976	19	200,530.00
1977	21	115,850.00

11 Smokers' Carelessness

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1973	39	219,607.00
1974	55	274,715.00
1975	40	210,388.00
1976	22	271,650.00
1977	19	116,865.00

4. Petroleum and Its Products

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1973	11	12,080.00
1974	20	1,584,200.00
1975	21	46,625.00
1976	19	211,390.00
1977	15	202,900.00

5. Exposure

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1973	9	14,390.00
1974	5	1,150.00
1975	6	75,300.00
1976	1	21,000.00
1977	3	32,150.00

6. Incendiarism

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1973	10	48,858.00
1974	10	46,500.00
1975	3	2,400.00
1976	7	37,370.00
1977	9	24,050.00

7. Miscellaneous

I Lightning

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1973	-	-
1974	-	-
1975	-	-
1976	-	-
1977	-	-

II Lights, Other than Electrical

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1973	-	-
1974	-	-
1975	1	300.00
1976	1	500.00
1977	1	750,000.00

III Sparks on Roofs

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1973	3	1,000.00
1974	-	-
1975	-	-
1976	-	-
1977	-	-

IV Spontaneous Ignition

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1973	1	-
1974	2	5,590.00
1975	-	-
1976	4	35,850.00
1977	1	6,500.00

V Miscellaneous

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1973	34	96,063.00
1974	19	28,494.00
1975	29	475,516.00
1976	17	153,910.00
1977	6	41,050.00

8. Unknown

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1973	24	487,593.00
1974	72	298,150.00
1975	23	330,875.00
1976	20	337,390.00
1977	12	77,445.00

SECTION IV

OCCUPANCY GROUP CLASSIFICATION

1 Residential Properties

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1973	517	1,216,418.00
1974	203	1,134,906.00
1975	139	896,279.00
1976	93	610,020.00
1977	74	580,015.00

2 Institutional Buildings

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1973	3	4,070.00
1974	5	150,000.00
1975	2	350.00
1976	4	502,520.00
1977	5	245,000.00

3 Assembly Buildings

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1973	9	817,555.00
1974	23	584,160.00
1975	3	5,575.00
1976	6	73,350.00
1977	3	240,000.00

4 Farm Properties

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1973	-	-
1974	-	-
1975	-	-
1976	-	-
1977	-	-

5 Manufacturing Properties

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1973	3	76,368.00
1974	3	500,000.00
1975	5	7,800.00
1976	8	65,050.00
1977	-	-

6 Mercantile Properties

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1973	45	569,819.00
1974	74	1,795,682.00
1975	48	1,039,185.00
1976	51	915,460.00
1977	3	830,000.00

7 Miscellaneous Properties

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1973	65	50,643.00
1974	69	37,697.00
1975	48	359,700.00
1976	23	16,100.00
1977	11	38,950.00

Over \$50,000

1973

<u>DATE</u>	<u>LOCATION</u>	<u>OCCUPANCY</u>	<u>CAUSE</u>	<u>\$ LOSS</u>
Jan. 15	Cambridge Bay	Apartment Block	Candle	360,000
Mar. 14	Cambridge Bay	School	Heater	707,000
Mar. 22	Inuvik	Apartment Block	Unknown	278,539
Aug. 23	Frobisher Bay	Legion Hall	Match	108,000
Sept. 9	Terra Mine	Mine Building	Unknown	50,000
Nov. 18	Yellowknife	Hangar	Smoking	75,000
Nov. 23	Unsettled	Garage	Electrical	255,000
Dec. 12	Yellowknife	Shop/Dwelling	Heater	50,000
Dec. 13	Fort Simpson	Motel	Smoking	85,000
Dec. 18	Inuvik	Warehouse	Heater	52,000

1974

Jan. 27	Yellowknife	Semi-Trailer	Propane Heater	50,000
Mar. 20	Inuvik	Warehouse	Unknown	85,000
Apr. 7	Aklavik	Church	Oil Furnace	55,000
Aug. 15	Unsettled	Helicopter	Fuel Spill	750,000
Sept. 20	Tuktoyaktuk	Helicopter	Fuel Spill	750,000
Oct. 4	Cambridge Bay	Pupils Res.	Cigarette	150,000
Oct. 5	Fort Smith	Pupils Res.	Electrical	500,000
Nov. 8	Terra Mine	Mine Generator	Electrical	500,000

<u>DATE</u>	<u>LOCATION</u>	<u>OCCUPANCY</u>	<u>CAUSE</u>	<u>\$ LOSS</u>
1975				
Jan. 14	Inuvik	Garage	Welder	250,000
Jan. 11	Mackenzie Hwy.	Semi Trailer	Propane Leak	50,000
Feb. 19	Norman Wells	Motel	Gas Furnace	68,000
Mar. 3	Inuvik	Office	Electrical	50,000
June 19	Yellowknife	Motel	Cigarette	58,918
July 28	Banks Island	Oil Camp	Propane Furnace	300,000
Aug. 8	Garry Island	Fuel Tanker	Unknown	80,000
Aug. 8	Rankin	Warehouse	Exposure	60,000
Aug. 8	Rankin	Power House	Chimney	175,000
Sept. 17	Baker Lake	Lodge	Propane Leak	125,000
Sept. 19	Fort Simpson	Shop/Office	Unknown	93,000
Nov. 11	Igloolik	DC-3	Portable Heater	100,000
1976				
Feb. 15	Echo Bay	Garage	Unknown	75,000
Feb. 21	Hay River	R.C.M.P.	Welder	500,000
Mar. 27	Ft. Resolution	Dwelling	Unknown	70,000
Apr. 13	Yellowknife	Garage	Welder	150,000
Apr. 18	Inuvik	Helicopter	Fuel Spill	200,000
May 15	Pelly Bay	Church	Matches	50,000
Aug. 4	Eureka	Weather Stn.	Gas Explosion	100,000
Nov. 26	Pond Inlet	Dwelling	Cigarette	67,000
Nov. 17	Yellowknife	Garage	Unknown	109,500

1977

<u>DATE</u>	<u>LOCATION</u>	<u>OCCUPANCY</u>	<u>CAUSE</u>	<u>\$ LOSS</u>
Jan. 25	Fort Norman	Garage	Battery Charger	55,000.00
Feb. 6	Fort Franklin	Church	Overheated Wood Stove	70,000.00
April 17	Tuktoyaktuk	Dwelling	Gasoline Spill	70,000.00
July 4	Pine Point	Vehicle	Hydraulic Fluid	70,000.00
Aug. 16	Hay River	School	Heating Tape	200,000.00
Dec. 21	Baker Lake	Co-op	Candle	100,000;00

DEATHS

<u>Year</u>	<u>Men</u>	<u>Women</u>	<u>Children</u>	<u>Total</u>
1973	4	1	2	7
1974	6	2	-	8
1975	6	-	2	8
1976	4	6	3	13
1977	2	1	3	6

INJURIES

<u>Year</u>	<u>Men</u>	<u>Women</u>	<u>Children</u>	<u>Total</u>
1973	5	4	3	12
1974	25	3	1	29
1975	12	2	2	16
1976	4	2	-	6
1977	12	2	-	14

SECTION VII
ARSON INVESTIGATION
AND ALLIED CRIMES

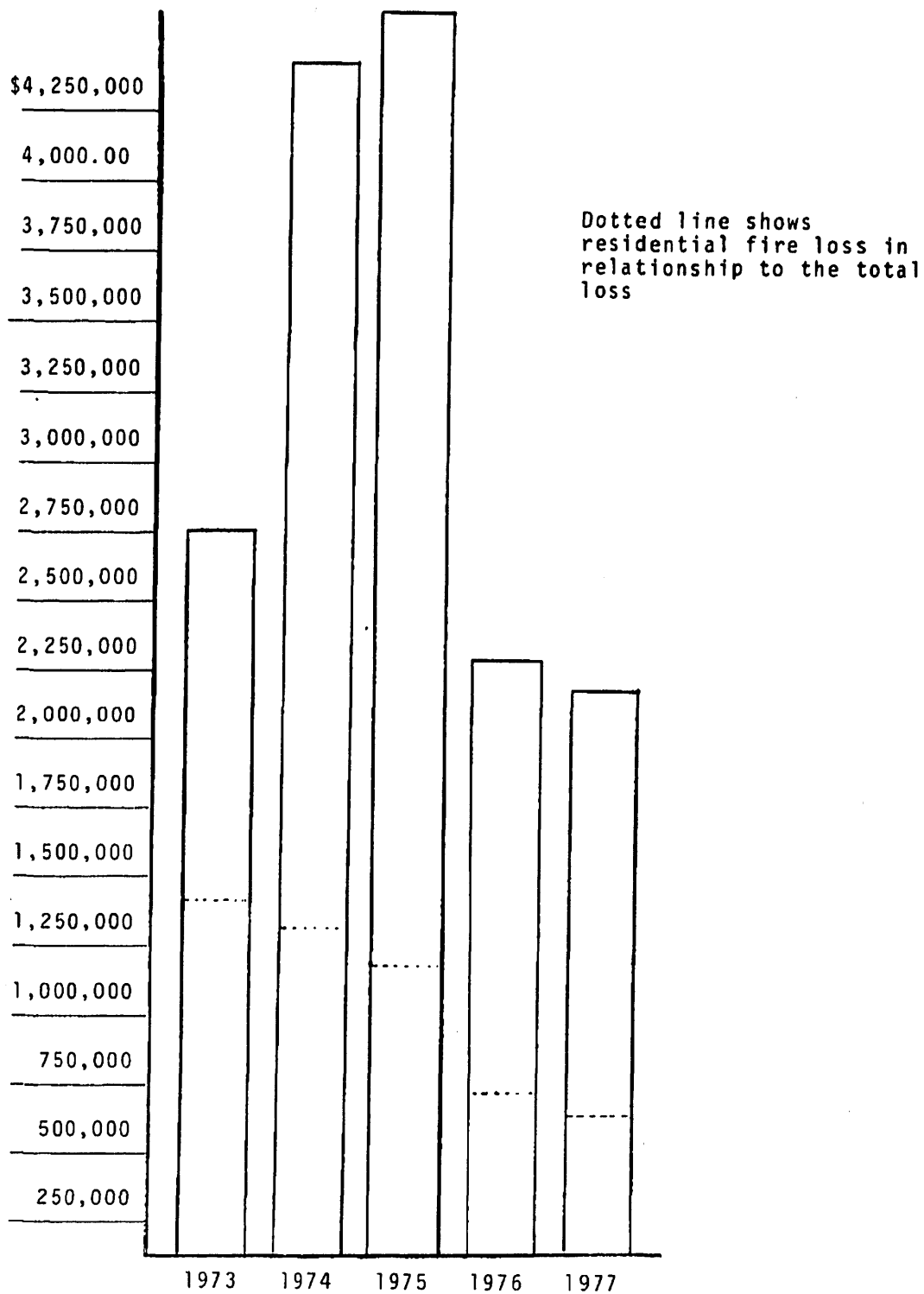
Arson Investigation & Allied Crimes

<u>Year</u>	<u>No. of Investigations</u>	<u>No. of Prosecutions</u>	<u>No. of Convictions</u>
1973	17	-	-
1974	21	2	1
1975	14	1	1
1976	8	-	-
1977	13	1	1

Inspections

Fire Safety

1973	3,300
1974	3,800
1975	
1976	1,831
1977	1,500



The Fire Marshal is responsible for reviewing plans and specifications for the construction, alterations or repair of structures with a view to determining that proper precautions are taken against fire and the spread of fire.

One hundred and ninety six (196) plans were reviewed. Low cost and staff accommodation were registered as one plan even though more than 400 were erected.

Numerous meetings were held with architects, engineers, town planners, developers and contractors. These meetings accomplish two things: (1) They educate the people who are responsible for the design and construction of the building to conform to established codes of the Northwest Territories. (2) They help us to search out and regulate on new materials on the market.

Fire protection and safety features must be engineered and designed into the building.

FIRE DEPARTMENTS

In June, a training seminar was held for three days in Hay River. This seminar was conducted by the Fire Fighters Association in conjunction with the Fire Marshals office. Eighty six delegates attended from the various fire departments within the N.W.T..

PUBLIC TRAINING

Fort Smith	90
Hay River	200
Lake Harbour	75
Fort Providence	8
St. John Ambulance	8
Grise Fiord	30
Cubs	30

A Fall Fair held in Yellowknife presented the opportunity to meet and hand out approximately 15,000.00 pieces of literature on Fire Prevention to the general public.

In addition, training courses were held in the following centres with listed departments attending:

<u>LOCATION</u>	<u>DEPARTMENTS</u>	<u>NO. OF DELEGATES</u>
Yellowknife	Yellowknife	130
Cape Dorset	Cape Dorset	36
Repulse Bay	Repulse Bay	8
Sanikiliaq	Sanikiliaq	8
Lake Harbour	Lake Harbour	8
Eskimo Point	Eskimo Point	11
Whale Cove	Whale Cove	10
Resolute Bay	Grise Fiord	2
	Arctic Bay	2
	Pond Inlet	2
	Resolute Bay	2
Resolute Bay	Resolute Bay	7
Inuvik	Tuktoyaktuk	5
	Aklavik	1
	Paulatuk	3
	Inuvik	8
Norman Wells	Fort Good Hope	3
	Fort Franklin	3
	Fort Norman	3
	Norman Wells	8
	Norman Wells I.O.L.	5
	Norman Wells DOT	5
Pangnirtung	Pangnirtung	8
Grise Fiord	Grise Fiord	10

INDUSTRIAL SAFETY

With the passing into Law of the Northwest Territories Safety Regulations on July 1, 1977 and the set up of the Industrial Safety Section the following information has been tabulated. These statistics are for the four month period September-December, 1977:

	<u>A - NON-LOSS TIME INJURIES</u>	<u>B - LOSS TIME INJURIES</u>
Head	18	5
Face	13	5
Neck	2	1
R. Arm	15	10
L. Arm	14	12
Back	31	41
R. Hand	16	9
L. Hand	11	7
R.H. Fingers	29	7
L.H. Fingers	49	9
R. Leg	12	12
L. Leg	5	14
R. Foot	18	17
L. Foot	14	6
Chest	4	11
Ears	-	1
Misc.	11	14
Eyes	50	5

FATALITIES

Two Industrial related fatalities occurred within this period, one in the Steel Erection Industry and one in the Motor Transport Industry*

*These statistics do not include Aircraft related fatalities.

SAFETY SECTION

Public Training:

Bicycle Safety Program:

Programs were conducted in co-operation with the R.C.M. Police and Lions Club in the following communities:

Yellowknife
Inuvik
Pine Point
Hay River
Fort Smith
Fort Simpson

Approximately 1300 children were given instruction on the safety of bicycling.

Safety Week:

Information was dispersed throughout the N.W.T. for the annual program during the week of May 15 to 21. Approximately 6000 pieces of literature were dispersed.

Territorial Truck Rodeo:

Assistance was given to the N.W.T. Motor Transport Association in the organization and judging of the 1st N.W.T. Championship. Participation is expected again this year.

The Division has a very good film library with new additions during the past year. The constant use of the films reflects the need to increase the size and update the films. In 1977 the films were used extensively.

TRAINING FILMS FOR FIRE DEPARTMENTS

Ground Ladders
Handling LP Gas Emergencies
Fighting Tank Fires
Ventilation
The Nature of Fire
Combat
The Nozzleman
Using Water Wisely
Firefighting Strategy
Today's Firefighter
Where's the Water
Co-ordinated Fire Attack
Ansul Training
Bleve (Boiling Liquied Expanding Vapour Explosion)
Portable Fire Extinguishers
The ABC and D's of Portable Fire Extinguishers
Know your Extinguisher
Self-Contained Breathing Apparatus
Code 3
Tall Dilemma
High Rise Building Problems
Instant Arson
Basic Rescue I
Basic Rescue II
Basic Rescue III
Basic Rescue IV

Basic Rescue V
Bomb Threat
The Science of Fire
Dry Chemical Fire Extinguishers
High Rise Building Fire
Closed Containers & Fire
Fire Hose
Prognosis: Fire
The Easy Way Out

TRAINING SLIDES - FIRE

Unlading & Advancing Hose Lines
Basic Hose Loads
Forward Hose Lays
Reverse Hose Lays
Extend & Reduce Hose Lines
Hand Portable's - Inspection & Maintenance
Hand Portable's - Use
Wheeled Units - Operation & Recharge
Wheeled Units - Inspection & Maintenance
Scott Air Pack - Inspection & Testing
Scott Air Pack - Use
Ladders
Pumpers
Fire/Safety - What's That?
Common Forcible Entry Tools
Loading Rack Fires
Salvage & Overhaul
Time
Ventilation - Parts 1 & 2
Safety At The Fire
Tool or Weapon

Physical Condition
Safe Driving

FIRE SAFETY FOR GROUP SHOWING

Fatal Fire In Town
Know Your Fire Hazards
Condemned
Are You Safe At Home
Hot Stuff
Fire - Not In My House
Fire - Two Ways Out
Fire In My Kitchen
Have A Wonderful Evening
Fire - Sound The Alarm
Another Man's Family
RX For Fire
Hospital Fire Safety
Your Clothing Can Burn
The Fire Finders
Holding Hands
Lucy Becomes A Volunteer Fireman
They Called It Fireproof
The Price Of Fire
Our Obligation
Liquids Can Burn
Are We Fire Safe
Hot Cords Can Burn
Help Prevent Fire
Flammable Liquid Fire Safety
Prevent Welding/Cutting Fires
It's Time To Light The Fire
Mobile Home Fire Safety

He Comes Without Calling
Why?
You & Yours

SAFETY FILMS

Ice Safety
Hand Tools
Power Tools
Ten Commandments Of Gun Safety
It Didn't Have To Happen
Poisons
Charlie's Day
It's Your Accident
Hot Water Tank Explosions
Falls Can Cripple
The Unplanned
Don't Take Chances
Safe Bicycling
Snowmobile Safety
Play Safe With Snowmobiles
Just Once
Read the Label and Live
Your Job
How To Have An Accident In The Home
Drown Proofing
Accidents Don't Happen
Prognosis: Safety

SAFETY SLIDES

School Safety
Traffic Safety

Transit Safety

Home Safety

Shop Safety - Screwdrivers, Wrenches, Sheet Metal, Welding

Shop Safety - Handsaws, Chisels, Files

Shop Safety - Drill Press, Lathes

Shop Safety - Grinders, Powersaws, Routers, Joiners

Shop Safety - General Hazards

Keep Clean - Guard Sight, Guard Hands

Supervisor - Health, Fire

Handtools - Lifting Attitudes

FIRST AID

Pulse Of Life

Breath Of Life

Circulatory System

Nervous System

Respiratory System

Skeleton

Emergency Child Birth

Help Is

EMERGENCY PLANNING

Nuclear Weapons

The Face Of Disaster

Eleven Steps to Survival

About Fallout

Time To Live

Though The Earth Be Moved

SECTION XIII

MECHANICAL-ELECTRICAL & ELEVATORS

MECHANICAL SECTION SAFETY DIVISION
DEPARTMENT OF PUBLIC SERVICES

General:

The work load in all areas of responsibility experienced continued growth, particularly in the electrical inspection field. With houses being constructed in so many of the communities, an increase in travel and time was required per inspection. 1,262 electrical permits were issued for a total revenue of \$45,712.00. At the end of the year there were 984 permits open with final inspections still to be done.

Boiler and pressure vessel registrations increased by 204 to a total of 2,596. Though the Ordinance requires these to be inspected annually, only 1,477 were inspected. Seven new elevators were installed for a total of 41 now in operation in the N.W.T.. Twenty-three welders and power engineers examinations were conducted, an increase of eight. Total revenue for the Year was \$83,509.20, an increase of nearly \$9,000.00.

This section consists of 2 Electrical/Elevator Inspectors, one Boiler Inspector, one Administrative Clerk and the Head of the Section.

The inspection staff continues to place emphasis on training people in the settlements in the safe operation of boilers and the safe installation of electrical wiring.

This section will be hosting, in Yellowknife, the Committee on the Canadian Electrical Code Part I in June 1978. This section is also a voting member of the Boiler and Pressure Vessel, Refrigeration and Elevator Code Committees.

Boilers and Pressure Vessels:

2,596 boilers and pressure vessels were registered in 1977. Of these, 1,477 were inspected and unsafe conditions reported to the owner.

There was no loss of life due to boilers or pressure vessels. Three boilers were damaged by combustion explosions and had to be replaced. One boiler was condemned, and has since been replaced. Several boilers required retubing. Potential hazards were eliminated by having defective safety valves and safety controls replaced.

Six welders were tested for Class B certification with 4 obtaining their certification. More emphasis is being applied to this program.

14 candidates sat for power engineers examinations from 5th to 1st class. Certificates issued to those who successfully passed the exam or transferring from another Province were as follows:

- 8 - 5th Class
- 6 - 4th Class
- 4 - 3rd Class
- 4 - 2nd Class
- 2 - 1st Class

Though an apprenticeship program for power engineers was established over a year ago, only one employee was indentured.

Electrical:

Permits received -----	1,262
Inspections -----	1,768
Permits outstanding -----	984
Electrical plans reviewed -----	52
Revenue	42,132.00

The number of permits received were down from 1976, however the revenue was up due to larger jobs started in 1977.

Inspections are carried out on mainly new installations, on which permits have been issued. Other inspections are on drill rigs, federal buildings and when time permits, on older installations. It is felt more time should be spent on older, high occupancy installations, however, lack of staff does not permit this.

Plans reviewed varied from housing units, drill rigs, gas plants to office complexes. Purpose of this review is to ensure that designers comply fully with the governing regulations and codes.

A 3-day electrical seminar is planned for May, 1978, to give contractors and electricians an opportunity to express their views, also a training workshop will be held at that time.

Goals for 1978 are to license electricians and establish another group below the journeyman level.

Elevators:Distribution

YELLOWKNIFE.....2 dumbwaiters cancelled.....	19
HAY RIVER.....	8
PINE POINT.....	5
FROBISHER BAY.....	4
FORT SMITH.....1 dumbwaiter cancelled.....	1
INUVIK.....	2
TUNGSTEN.....ski tow.....	1
TOTAL.....	<u>41</u>

Designation

PASSENGER.....	29
DUMBWAITER.....3 cancelled and taken out of service.....	2
FREIGHT.....	4
BELT LIFTS.....	4
SKI TOWS.....	1
TOTAL.....	<u>41</u>

There were 7 new elevators installed in the N.W.T. in 1977. Deficiencies found in existing elevators were of a minor nature, such as worn door rollers, dirt in pits, etc. Generally elevators are being well maintained.

In 1978 most elevators will be inspected during January and February. An increase in elevators is expected for the coming year.

Elevator Revenue.....	\$720.00
Elevator Inspections.....	25

STATISTICS
ELECTRICAL

<u>Year</u>	<u>Permits</u>	<u>Inspections</u>	<u>Open Permits</u>	<u>Revenue</u>
73 - 74	891	1,141		\$13,818.00
74 - 75	817	842		19,066.00
75 - 76	850	1,846		37,595.10
76 - 77	1,417	1,702		41,033.00
1977	1,262	1,768	984	45,712.00

BOILERS & PRESSURE VESSELS

<u>Year</u>	<u>Registration</u>	<u>Inspections</u>	<u>Revenue</u>
73 - 74	1,854	1,150	\$22,310.00
74 - 75	2,097	1,463	19,977.00
75 - 76	2,112	1,640	26,710.50
76 - 77	2,392	1,495	31,097.00
1977	2,596	1,477	34,246.00

ELEVATORS

<u>Year</u>	<u>No.</u>	<u>Inspected</u>	<u>Revenue</u>
73 - 74	23	20	\$ 791.00
74 - 75	28	23	690.00
75 - 76	30	25	700.00
76 - 77	36	33	750.00
1977	41	25	901.70

<u>Year</u>	<u>Welders Engineers Exams</u>	<u>Plan Review & Design Registration</u>	<u>Revenue</u>
73 - 74			\$ 882.00
74 - 75			1,162.00
75 - 76	20	80	1,400.00
76 - 77	15	85	1,203.50
1977	23	53	2,649.50

TOTALS

<u>Year</u>	<u>Total</u>
73 - 74	-----\$37,801.00
74 - 75	-----40,895.00
75 - 76	-----66,405.60
76 - 77	-----74,083.50
1977	-----83,509.20