AIR CONDITIONING and REFRIGERATION INDUST PROVINCIAL COLLECT 1.C.I. CONSTRUCTION 1992-1995 NON I.C.I. CONSTRUCTION, 1992-1995 SERVICE & MAINTENANCE 1992-1995 BETWEEN: U.R.A.C.
ONTARIO REFRIGERATION AND AIR UNIARIU REFRIGERATIUN AND AIR
CONDITIONING CONTRACTORS ASSOCIATION U.A. LUCAL 787
REFRIGERATION WORKERS OF ONTARIO UNITED ASSOCIATION

I.C.I. CONSTRUCTION COLLECTIVE AGREEMENT (1992)

between

O.R.A.C.

and

U.A. LOCAL 787

Article 4: EMPLOYER

The term "Employer" in this Agreement is construed to mean the Association, any Company, partnership, sole proprietorship, or otherwise which is bound by this Agreement.

Article 5: RECOGNITION

5:01 The Association recognizes Local Union 787 as the sole and exclusive bargaining agent for all Journeymen Foremen, Journeymen and Apprentice Refrigeration and Air Conditioning Mechanics, save and except persons above the rank of working Foremen, employed by Employers in the Province of Ontario in the industrial, commercial and institutional construction sector (hereinafter referred to as the I.C.I. Construction Sector) of the Refrigeration and Air Conditioning trade.

- (a) The Union recognizes the Association as the sole and exclusive bargaining agent for employers of Local 787 members employed in the I.C.I. Construction Sector of the Province of Ontario.
- (b) Subject to the express terms of this Agreement and specifically to Article 8 Paragraph 8.03 (a) and (b), the Union recognizes the right of the Employer to operate and manage his business in accordance with his commitments and responsibilities.

The following are solely and exclusively the responsibility of the Employer:

- (1) The location of Company workshops and warehouses.
- (2) Designation of work to be done and responsibilities of each employee.
 - (3) Scheduling of work.
- **(4)**Methods and means by which the work is to be accomplished within the provisions of all Safety Regulations.
- (5) The right to decide on the number of employees needed by the Company at any time.
- (6) The control of all operations and buildings, machinery and tools owned or rented by the Company. The direction of the employees, including the right to hire, suspend or discharge for just cause and the right to relieve employees from duty because of lack of work or other legitimate reasons is vested exclusively with the Employer subject to this Agreement and in particular, subject to the grievance and arbitration procedures provided herein.
- (7) The Employer agrees that in the exercising of its management rights and in the administration of this Agreement, it shall do so in a fair and reasonable manner.

5:02 Except as may otherwise be provided for herein:

- (a) All employees covered by this Agreement shall, as a condition of employment or continued employment, be members of the Union in good standing.
- (b) In the event that an employee fails to tender to the Union the required initiation fee or monthly dues and for any reason becomes a suspended member of the Union, the Employer will not assign work to such employee upon request by the Union.
- 5:03 Employers will obtain from the Union all persons required to perform any of the work described in Appendix "A" attached hereto, except if Union members are not available, the Employer may hire other qualified workers, provided they make application to join the Union before employment commences. For clarification, the intent is, if the Employer requires a specifically trained employee and none are available on the Union "out of work" list, an Employer may, if he decides the workers on the list are not suitable, hire an employee provided Article 25 has been adhered to. The Union will notify the Employer within 48 hours of the worker's acceptance.
- 5:04 The Union shall take reasonable steps to ensure that none of its members are employed by Employers not bound by this Agreement with the Union. This is not to be construed to prevent a member securing employment outside of his trade.
- 5:05 No member of the Union while employed by an Employer bound by this Agreement shall perform work as outlined in Appendix "A" of this Agreement for anyone other than his Employer without permission from both his Employer and the Union.

Article 6: EMPLOYEE

6:01 Under the terms of this Agreement there shall be the following categories or classes of employees:

Journeyman Foreman Journeyman Mechanic Apprentices Students

which categories or classes are defined as follows:

6:02 JOURNEYMAN FOREMAN — Shall be an employee with the qualifications of a Journeyman Mechanic, and who has been requested to take charge of a job over 3 consecutive days duration where 2 additional Local 787 Journeymen are employed. On any job where 3 or more Local 787 Journeymen are employed a foreman must be designated and he must be a member of Local 787

A Journeyman Mechanic who has been requested to take charge of a job as Journeyman Foreman shall hold the position and pay of a Journeyman Foreman for the duration of the job.

6:03 JOURNEYMAN MECHANIC — Shall designate a person who holds a valid Certificate of Qualification for the Province of Ontario and who has passed any examination which may be required by the Local 787 Examining Board.

6:04 APPRENTICE — Shall designate any person who engages himself for a minimum period to an Employer for the purpose of learning the trade as laid down by the Ontario Apprenticeship and Tradesmen's Qualification Act. He will attend all courses of study as laid down by the Act and by the Joint Training and Apprenticeship Committee.

The Employer shall be permitted a ratio of one Apprentice for the first Journeyman member, and then permitted an additional Apprentice for every three additional Journeyman members employed.

6:05 STUDENTS — For the purpose of this Agreement, the term "student" shall mean a person who, except for summer vacation period or work study period, would normally be attending full time at High School, Voxational School, or University and taking subjects relating to the Refrigeration and Air Conditioning Trade.

The intention of this clause is to enable an Employer to give practical experience during summer months to a person whose declared intention is to seek employment in the Trade upon graduation from school, and is not intended as a source of casual labour.

- (a) The Employer involved must employ the maximum number of Apprentices **as** allowed by the ratio stated in Article 6:04 before hiring a student.
- (b) The foregoing notwithstanding, no Employer shall employ more than one "student" for every eight (8) Union members employed, except, any Employer employing at least five (5) members of the Union may hire one "student".
- (c) Students will be required to pick up a temporary work card and work referral slip prior to starting work.

Article 7: RESPONSIBILITY OF EMPLOYEES

For the purpose of establishing a minimum responsibility, employees will be described in three (3) categories:

Journeyman Foreman Journeyman Mechanic

Apprentice-Student

7:01 GENERAL - The Employee shall:

- (a) Assume his position with his Employer according to his qualifications in the industry and shall accept the following as the minimum requirements and terms of his employment, but shall not be limited to them **or** relieved of further responsibility delegated by the Employer.
- (b) Arrive ready for work suitably and neatly dressed at the normal starting time unless prevented by his Employer from doing
- (c) While in the possession of an Employer's tools, equipment, materials, vehicles or other Employers property take all reasonable precautions to prevent damage, loss, theft, breakage, misuse, etc.
- (d) Ensure that an Employer's vehicle, when provided for his use, is employed in accordance with the "Company Policy" and operated in a manner which will result in maximum useful life and maximum economy. While all costs for maintenance and repairs are borne by the Employer, the employee will advise the Employer immediately and in writing, with a copy to be retained by the employee, of any servicing that may be required to keep the vehicle in good and safe running order and presentable in appearance.
- (e) When representing his Employer, make every effort, according to his qualifications, to look after the best interests of the Employer.
- (f) All employees shall be required to have and wear approved safety boots or shoes, and safety hats as a condition of employment. The employee shall provide the safety hat at his own expense unless the Employer demands a safety hat of a particular colour or style, in which case the Employer shall supply it/them at the Employer's expense. Safety hats supplied by the Employer shall be returned to the Employer by the employee on termination of employment. It shall be the responsibility of the employee to be knowledgeable of the Safety Regulations under the Occupational Health and Safety Act 1978.

7:02 A JOURNEYMAN FOREMAN SHALL:

(a) Direct all phases of a project for which he was appointed foreman and be capable **of** instructing Journeymen and Apprentices in the actual installation work from drawings and instructions given by his Employer and perform the work of a Journeyman Mechanic when so required by his Employer.

7:03 JOURNEYMAN MECHANIC

(a) Journeyman Mechanic shall when issued a specific job assume the role of mechanic and representative of the Employer

and take the initiative to perform the work, according to the best practice of this industry. Where circumstances are beyond his control he shall immediately advise his superiors.

- (b) When working with an Apprentice, a Journeyman Mechanic shall guide and instruct the Apprentice to ensure that the production of the Apprentice is of the best quality.
- (c) A Journeyman Mechanic shall take reasonable steps to ensure hat upon his leaving a job, the safety of other employees of the Employer engaged at the project are not in jeopardy due to insecured equipment or materials. Upon completing a project or eaving a project for a sustained period of time, a Journeyman Mechanic shall clean up the **job** site or shall make arrangements to lave this done according to the project requirements.
- 7:04 APPRENTICE—The responsibility of **an** Apprentice is covered under the direction of **the** Joint Training and Apprenticeship Committee
- (a) He will work under direct supervision of a Journeyman number of the Union and be responsible to the Journeyman for the work which he has performed. He shall follow the instructions and directions of the Journeyman.

Article 8: RESPONSIBILITY OF EMPLOYER

- 8:01 An Employer shall attempt to keep an indentured Apprentice active in his relative training until completion of his Apprenticeship. Should the Employer find it necessary to lay off an Apprentice, that Apprentice or an Apprentice with the same years of experience or greater shall be recalled or hired when work becomes available. If the Apprentice or Apprentices with the same years of experience or greater are not available at the time of recall, this provision shall not apply.
- 8:02 Before hiring a member of Local 787, an Employer must present a written copy of the Employer's "Company Policy", a copy MUST be deposited on file at the Union office and the employee shall sign an appropriate form as proof that he has received a copy of the Employer's "Company Policy". Policy shall include working hours, the wearing of uniforms, and use of Employers/employees vehicles, etc.

The "Company Policy" shall not contravene this Agreement or any other applicable legislation.

Revision of "Company Policies" must be deposited on file at the Union office and each and every employee affected by the change must be advised.

8:03 The Employer shall:

- (a) Assign exclusively to members of the Union all of the work described in Appendix "A", attached hereto and forming part of this Agreement.
- (b) Employers will not sublet refrigeration or air conditioning work to non-union contractors.
- 8:04 The Employer will keep Company vehicles in proper mechanical and safe condition. If a dispute arises, the governing body will be "The Ministry of Transportation and Communications Vehicle Inspection Section".
- (a) All Employer's vans will be equipped with metal safety shields or bulkheads of equivalent strength between the driver and the load. The Employer's vehicles will be equipped with First Aid Kits, Fire Extinguishers and Safety Flares.
- (b) It is the employees responsibility to notify the Employer of any deficiencies in either 8:04 or 8:04(a).
- 8:05 The Employer shall show proof of Insurance Coverage (minimum \$1,000,000.00 Public Liability and Property Damage) of vehicle and employee during working hours, and after working hours while using vehicle according to "Company Policy". Written proof and permission must be issued to employee involved.
- 8:06 It shall be the responsibility of the Employer to comply with the regulations under the Occupational Health and Safety Act, 1978, on all jobs where Union members are employed.
- **8.07** The Employer will provide the employees with credit cards, pump keys, cash or other suitable methods of paying for gas, oil, service and minor repairs to Employer's vehicle, parking fees, etc. In some instances an employee may be required to purchase minor material in which case he shall be provided with a cash floater if he requests it. If a cash floater is provided, it will be replenished at suitable intervals on submission of receipts for money spent. The cash floater is for the benefit of the Employer and must be available at all working time for that purpose.

Article 9: UNION STEWARDS

9:01 The Union may appoint, and the Employer shall recognize a Steward for each shop, job or area. The Employer's General Manager shall be notified in writing of the name of the Steward when the appointment becomes effective. The Steward shall be recognized as the representative of the Union for the shop, job or area in which he is working and no discrimination shall be shown against him for carrying out his Union duties. He shall not be laid

iff, transferred or discharged by reason of executing his Union luties and responsibilities as a Steward.

9:02 The Steward shall assist in adjusting differences which may rise out of the interpretation, application or alleged violation of his Agreement.

9:03 He shall see that the provisions of this Agreement are complied with and report any infractions to the office of the Union. This also applies to safety regulations.

Article 10: UNION REPRESENTATIVE

10:01 An official representative of the Union shall have access to projects during working hours providing this is within the control of the Employer.

10:02 An official representative of the Union when entering a project shall when practicable, advise the Superintendent or Employer of his visit and at no time shall he interfere with job progress unless there is a matter of dispute on the job, in which ase the matter must be discussed with the job Superintendent or Foreman, so that no unnecessary work stoppage occurs.

10:03 **An** official representative of the Union shall be granted inpaid leave of absence when required for Union business provided that reasonable notice is given to the Employer.

Article 11: HOURS OF LABOUR

11.01 The ordinary hours of work shall be eight (8) consecutive tours per day not including time for lunch, between 8:00 a.m. and 5:00 s.m. Monday to Friday inclusive with one half hour off for lunch naking a regular work week of 40 hours. Normal job starting and job pitting times to be determined by the Employer in accordance with trea or Employer's practice provided they are within the ordinary tours of work. Changes to normal starting and quitting times for special reasons may be arranged between the Employer and employee by mutual agreement. Any Employer wishing to revise normal starting and quitting time shall provide 7 days notice to the employees.

11:02 **SHOW** UP PAY – Unless an employee is informed prior to he end of the previous work day he should not report **to** work on the ollowing work day, such employee shall be paid an amount equal **to** our hours wages (including vacation pay and all other financial benefits provided for in this Agreement) and must take work available.

11.03 BEREAVEMENT LEAVE—In the event of a death in the employee's immediate family, i.e. the employee's children, parents, grandparents, brothers, sisters, **spouse**, spouse's parents, grandparents,

the Employer will grant the employee up to 3 days leave of absenc with pay for the purpose of making arrangements for, or attending th funeral or memorial service. Pay shall be at the employee's straight time rate and shall be paid only for claims which occur on a day of days which the employee would be regularly scheduled to work.

11:04 In the event that an accident occurs whilst a Unic member is on Employer business, which necessitates the member having to visit a doctor or hospital for treatment, etc., the time lo by the member shall be paid for by the Employer. If it is necessar for a Local 787 member to be taken for treatment by a secon member, his lost time will also be paid for by the Employer. It the intent that members would only be paid up to the completion to the shift which they were working at the time treatment was required.

11:05 JURY DUTY — Jury Duty Compensation will be paid if member of the Union is summoned for Jury Duty or as a Crow Subpoenaed Witness. For each day that he is compensated by the Crown, he shall be compensated by the Employer at \$25.00 pc day and by the Union at \$25.00 per day up to a maximum of calendar weeks or 20 working days. Proof of payment by the Crown shall be presented to the Employer and to the Union.

Article 12: OVERTIME

12:01 All time worked between the regular closing time of on day and the regular starting time of the following day shall be pai at overtime rates. Travelling time between the regular closing tim of one day and regular starting time of the following day will b paid at straight time.

12:02 Overtime shall be paid for at the rate of double time fo hours worked from regular closing time until regular starting tim on week days, and all hours worked on Saturday, Sunday an Statutory Holidays recognized in 12:03.

12:03 STATUTORY HOLIDAYS -- Recognized Statutor Holidays are New Year's Day, "Heritage Day" (if declared: Good Friday, Victoria Day, Canada Day, Simcoe Day, Labou Day, Thanksgiving Day, Christmas Day, and Boxing Day. Whe Statutory Holidays fall on a Saturday or Sunday, the next work da or work days shall be designated as Statutory Holiday(s) or a designated by the Government.

12:04 SHIFT WORK – Where it is necessary for a worker to work a night shift instead of a day shift or both night and day shifts because o tying in with other trades or construction schedules, or where life may be endangered or property damaged, or a shift commencing any time after regular closing time, the worker shall work 8 hours for 9 hour: pay.

Shift rates apply only to shifts starting after Sunday midnight and finishing Friday midnight. All hours over 8 hours worked in any one shift as described in 12:04 shall be paid for at overtime rates. No worker shall be required to work more than one shift in any 24 hour period.

12:05 If any man reports late for work, no overtime will be paid until a full day or shift has been completed from the time of reporting. A man is not late if he is asked to report after normal starting time,

Article 13: TRAVEL

13:01 The free zone shall he the area within a 50 km radius from the Employer's permanent place of business, shop, branch office or depot.

13:02 Employees will be on the job within the free zone by regular starting time. Workers travelling to a job outside the free zone shall be at the boundary of the zone nearest to the job site by regular starting time and regular quitting time.

13:03 Any member not supplied with transportation by the Employer and therefore uses his own vehicle shall receive \$0.40 (cents) per km for the use of his own vehicle while on Employer's business. For the purpose of computing mileage, it will be assumed that the day begins and ends at the shop and mileage will be computed from shop to shop, shop to job, job to job and job to shop.

In a situation where an employee is required to use his own vehicle on a one call or one day basis, the employee will be paid the mileage rate as above or \$25.00 per day or per call whichever is the greater amount. In situations where an employee is required to use his own vehicle on a regular basis (weekly), he will be paid the mileage rate as above or the minimum of \$100.00 weekly, whichever is the greater amount. Under no circumstances will the daily amount of \$25.00 accumulate to exceed the weekly minimum amount of \$100.00 in any one pay period.

Employees shall not carry more than their personal tools plus 45.5 kg (1001bs.) of Employer's tools and supplies in their personal vehicle.

13.04 Travel Expenses are to be paid at the same time as wages are paid.

13:05 It is agreed that each employee will carry a minimum of \$1,000,000.00 Public Liability and Property Damage Insurance on his vehicle at business rates if vehicle is used on Employer's business and that he will file a copy of the policy endorsement with the Employer.

13:06 The Employer agrees to pay parking fees incurred by employee while on Employer's business.

13:07 All employees sent out of the free zone to work and who do not return daily to their normal residence shall receive expenses incurred in obtaining meals and accommodation, and other legitimate expenses incurred, including transportation costs whether by air, train, bus, etc. If travelling at night by train, a sleeper is provided.

13:08 Expense money shall be advanced to each employee for meals and lodging sufficient for the expected duration of the job, (or weekly if the job is expected to last longer than seven days) and a detailed amount substantiated by receipts shall be submitted to the Employer by the employee.

13:09 If an employee is requested to use his vehicle for a job outside the free zone, any travelling involved during the course of the job or jobs, including return trips as outlined in 13:10 will be done in the employee's vehicle at the rate outlined in 13:03.

13:10 During the course of a job where the employee does not return to his normal residence daily he will be entitled to return home on the following basis:

- (a) every week for jobs within 161 km (100 miles) of the free zone.
- (b) every two weeks for the jobs within 644 km (400 miles) of the free zone.
 - (c) every three weeks for jobs over 644 km (400 miles) from the free zone.

If the employee does not wish to return home at the above stated intervals the Employer will continue the payment for lodging and meals during the weekend. If the employee does return home he will receive transportation costs as outlined in Article 13:07 but will not receive payment for travelling time. Travel arrangement will be controlled by the Employer.

- 13:11 When on jobs out of the free zone over five (5) days duration all employees shall be allowed one personal phone call of 3-minutes limit, per week paid by the Employer.
- 13:12 Employees will not be expected **to** use their own money for expenses incurred on behalf of the Employer.

13:13 In cases where, for Employer's reasons, the employee has the use of an Employer supplied vehicle to drive from employee's place of residence to the free zone, the employee shall, if requested, reimburse the Employer for the use of the vehicle at a rate not greater than specified in Article 13:03.

Article 14: WAGE RATES

14:01 The Province of Ontario is divided into four zones as indicated on the map inserted at the end of this Agreement. The location of the dividing lines between the zones is described in Appendix C of this Agreement.

14:02 If a man works outside his zone, or **out** of the Province, he is to be paid the prevailing rates for the zone in which he is working, provided it is not less than that paid in his own zone.

14:03 The following charts show the hourly rates which will apply from date of Memorandum of Agreement to April 30th, 1995 for all Local 787 Journeyman members and U.A. members of other locals working on a Travel Card in Local 787.

JOURNEYMANWAGE PACKAGE

	Basic Rate	10% V&S.HP.	Pension H&W Tng, Ind. Fund	Total Pkg.
Zone 1				
05/01/92	\$29.14	\$2.91	\$2.74	\$34.79
05/01/93	\$30.14	\$3.01	\$2.94	\$36.09
05/01/94	\$31.14	\$3.11	\$3.34	\$37.59
Zone 2				
05/01/92	\$28.64	\$2.86	\$2.74	\$34.24
05/01/93	\$29.64	\$2.96	\$2,94	\$35.54
05/01/94	\$30.64	\$3.06	\$3,34	\$37.04
Zone 3				
05/01/92	\$28.14	\$2.81	\$2,74	\$33.69
05/01/93	\$29.14	\$2.91	\$2,94	\$34.99
05/01/94	\$30.14	\$3.01	\$3,34	\$36.49
Zone 4				
05/01/92	\$27.64	\$2.76	\$2,74	\$33.14
05/01/93	\$28.64	\$2.86	\$2,94	\$34.44
05/01/94	\$29.64	\$2.96	\$3.34	\$35.94

14:04 APPRENTICE RATES

(a) Apprentice Hourly Rates for this Agreement are based on the following charts.

APPRENTICE WAGE PACKAGE -- MAY 1, 1992

	Basic Rate	10% V&S.HP.	Pension H&W Tng. Ind. Fund	Total Pkg.
Zone 1				
Term 1	\$10.48	\$1.05	\$2.74	\$14.27
2	\$13.57	\$1.36	\$2,74	\$17.67
3	\$16.66	\$1.67	\$2.74	\$21.07
4	\$19.80	\$1.98	\$2.74	\$24.52
5	\$22.91	\$2.29	\$2.74	\$27.94
Zone 2				
Term 1	\$10.28	\$1.03	\$2.74	\$14.05
2	\$13.31	\$1.33	\$2.74	\$17.38
3	\$16.36	\$1.64	\$2.74	\$20.74
4	\$19.45	\$1.94	\$2.74	\$24.13
5	\$22.51	\$2.25	\$2.74	\$27.50

Zone 3				
Term 1	\$10.08	\$1.01	\$2.74	\$13.83
2	\$13.05	\$1.31	\$2.74	\$17.10
3	\$16,06	\$1.61	\$2.74	\$20.41
4	\$19.08	\$1.91	\$2.74	\$23.73
5	\$22.11	\$2.21	\$2.74	\$27.06
Zone 4				
Term 1	\$ 9.88	\$.99	\$2.74	\$13.61
2	\$12.78	\$1.28	\$2.74	\$16.80
3	\$15.76	\$1.58	\$2.74	\$20.08
4	\$18.74	\$1.87	\$2.74	\$23.35
5	\$21.71	\$2.17	\$2.74	\$26.62

APPRENTICE WAGE PACKAGE — MAY1, 1993

	Basic Rate	10% V&S.HP.	Pension H&W Tng. Ind, Fund	Total Pkg.
Zone 1				
Term 1	\$10.83	\$1.08	\$2.94	\$14.85
2	\$14.03	\$1.40	\$2.94	\$18.37
3	\$17.23	\$1.72	\$2.94	\$21.89
4	\$20.49	\$2.05	\$2.94	\$25,46
5	\$23.69	\$2.37	\$2.94	\$29.00
Zone 2				
Term 1	\$10.63	\$1.06	\$2.94	\$14.63
2	\$13,76	\$1.38	\$2.94	\$18.08
3	\$16.92	\$1.70	\$2.94	\$21,56
4	\$20.12	\$2.01	\$2.94	\$25.07
5	\$23.29	\$2.33	\$2.94	\$28.56
Zone3				
Term 1	\$10.43	\$1.04	\$2.94	\$14.41
2	\$13.51	\$1.35	\$2.94	\$17.80
3	\$16.63	\$1.66	\$2.94	\$21.23
4	\$19.75	\$ 1.98	\$2.94	\$24,67
5	\$22.89	\$2.29	\$2.94	\$28.12
Zone 4				
Term 1	\$10.23	\$1.02	\$2.94	\$14.19
2	\$13.24	\$1.32	\$2.94	\$17.50
3	\$16.33	\$1.63	\$2.94	\$20.90
4	\$19.41	\$1.94	\$2.94	\$24.29
5	\$22.49	\$2.25	\$2.94	\$27.68

APPRENTICE WAGE PACKAGE --- MAY 1, 1994

	Basic Rate	10% V&S.HP.	Pension H&W Tng. Ind. Fund	Total Pkg.
one 1				
erm 1	\$11.01	\$1.10	\$3.34	\$15.45
2	\$14.35	\$1.43	\$3.34	\$19.12
3	\$17.68	\$1.77	\$3.34	\$22,79
4	\$21.06	\$2.11	\$3.34	\$26.51
5	\$24,42	\$2.44	\$3.34	\$30.20
one 2				
erm 1	\$10.81	\$1.08	\$3.34	\$15.23
2	\$14.08	\$1,41	\$3.34	\$18,83
3	\$17.38	\$1.74	\$3.34	\$22,46
4	\$20.71	\$2.07	\$3.34	\$26.12
5	\$24.02	\$2.40	\$3.34	\$29.76
one 3				
erm 1	\$10.61	\$1.06	\$3.34	\$15.01
2	\$13.83	\$1.38	\$3.34	\$18.55
3	\$17.08	\$1.71	\$3.34	\$22.13
4	\$20.34	\$2.03	\$3.34	\$25.72
5	\$23.62	\$2.36	\$3.34	\$29.37
one 4				
erm 1	\$10.41	\$1.04	\$3.34	\$14.79
2	\$13.55	\$1,36	\$3.34	\$18.25
3	\$16.78	\$1.68	\$3.34	\$21.80
4	\$20.00	\$2.00	\$3.34	\$25.34
5	\$23.22	\$2.32	\$3.34	\$28.88

⁽b) If during the term of this Agreement the Apprenticeship and radesmen's Qualification Act is amended, the Apprentice rates listed 'ill be amended accordingly. No employed Apprentice will receive a duction in his basic hourly wage.

⁽c) Advancement in Apprentice Rates will be by Referral Slip from 1e Union office only. A Referral Slip will be issued when the apprentice has met his responsibilities as outlined in the J.T.A.C. tandards section 9 (b) and '10(f) and the J.T.A.C. office has verified 1e Apprentice's records with the Employer.

⁽d) Apprentices upon completion of their Apprenticeship will dvance to the Journeyman basic rate.

^{14:05} STUDENTS – Basic rate will be the same as laid down for a 11st term Apprentice including Vacation Pay and contributions to the Benefit Plan.

14:06 JOURNEYMAN FOREMAN — The basic hourly rate c a Journeyman Foreman shall be the basic Journeyman's rate plu 10%.

14:07 PAY DAY — The 'normal work week' shall consist of fiv 8 hour days. Pay Day shall be once a week. If the pay is to be cheque, it will be given to the employee before the end of his shift o Thursday or deposited in his Branch of a Chartered Bank or Tru: Company by Friday. If by cash, before the end of his shift on Friday

If pay cheques are mailed **to** the employee's residence they must b mailed in sufficient time **to** arrive by Thursday afternoon of th appropriate week.

14:08 TIME SHEETS — Pay will be made for hours claimed o time sheets. Time sheets must be signed by an authorize representative of the customer as far as possible. No alteration c the time sheets or the hours contained therein will be made by th Employer or his representative.

Article 15: VACATION PAY AND STATUTORY HOLIDAY PAY

15:01 Vacation and Statutory Holiday Pay shall be paid at the rate of 10% of basic earnings for all categories of employed during the term of this Agreement. 5% shall be regarded a Vacation Pay and 5% shall be regarded as Statutory Holiday Pay

15:02 Vacation and Statutory Holiday Pay will be paid ever month to the "Vacation and Statutory Holiday Pay Trust Fund" ¿ administered by trustees elected by Local 787.

It will be seldom that the end of the month will coincide with a Employer's pay week, therefore the Vacation and Statutor Holiday Pay may be calculated to the end of the first pay period ε the following month.

15:03 Vacation and Statutory Holiday Pay shall be recorde weekly. Income Tax on Vacation and Statutory Holiday Pay will b calculated and be paid out of the employee's hourly rate weekly Pay cheque stubs will show actual amount of Vacation an Statutory Holiday Pay.

15.04 Vacation periods will occur preferably between May and September. A schedule is to be posted on each Employer's notice board before the month of May.

15:05 Vacation periods will be allocated by seniority and shall begis and end at the shop.

15:06 It is the intent of this Agreement that the employee shall b permitted to take three (3) weeks vacation annually, two (2) week during the recognized period as per 15:04. If it is impractical t

permit holidays during the recognized period owing to the pressure of work, then an alternative period shall be mutually agreed upon.

Article 16: JOINT TRAINING AND APPRENTICESHIP COMMITTEE

16:01 To assure the Industry of an adequate supply of properly trained and skilled Journeymen, Apprentice and Journeyman training shall be under the jurisdiction of the Joint Training and Apprenticeship Committee, composed of four (4)representatives from the Union and four (4)representatives from O.R.A.C.

16:02 The Committee will administer the Training Fund in accordance with the terms and conditions of the ''Refrigeration Worker's Local $787\,-\,$ O.R.A.C. Training Trust Fund Agreement''.

16:03 All prospective Apprentices must be approved by the Joint Training and Apprenticeship Committee before being employed.

16:04 To enable this Committee to fulfill its obligations as related above, the Association and the Union shall allocate to it the necessary sum of money as outlined in Article 17:01.

Article 17: REFRIGERATIONWORKER'S LOCAL 787 — O.R.A.C. TRAINING TRUST FUND

17.01 Effective May 1, 1992 each Employer bound by this Agreement shall contribute to the "Refrigeration Worker's Local 787 - O.R.A.C. Training Trust Fund" monthly, \$0.15 (cents) for each hour earned by each employee. Effective May 1, 1993 this contribution increases by \$0.10 (cents) to \$0.25 (cents).

17:02 Contributions as specified in Article 17:01 will be made as outlined in Article 21:00.

Article 18: INDUSTRY FUND

18:01 Each Employer bound by this Agreement shall contribute to the Industry Fund monthly, the sum of \$0.04 (cents) for each hour earned by each of his employees. Such amounts on receipt shall be immediately paid to O.R.A.C. as each Employer's contribution for the general purposes of O.R.A.C. Should O.R.A.C. require an increase during the term of this Agreement, such increase shall be determined by the Board of Directors of O.R.A.C.

18:02 The Industry Fund shall be administered by the Board of Directors of O.R.A.C.

18:03 Contributions as specified in 18:01 will be made as outlined in Article 21:00.

Article 19: WELFARE AND PENSIONTRUST FUND

19:01 Effective May 1, 1992 each Employer bound by this Agreement shall contribute to the "Local 787 Welfare Trust Fund" **on** behalf of each employee in his employ the sum of \$0.95 (cents) for each hour earned to be administered by Trustees elected by Local 787. Effective May 1, 1994, this conhibution increases by \$0.10 (cents) to \$1.05.

19:02 Effective May 1, 1992 each Employer bound by this Agreement shall contribute to the "Local 787 Pension Trust Fund" on behalf of each employee in his employ the sum of \$1.60 for each hour earned to be administered by Trustees elected by Local 787. Effective May 1, 1993 this contribution increases by \$0.10 (cents) to \$1.70. Effective May 1, 1994 the \$1.70 contribution increasesby \$0.30 (cents) to \$2.00.

19:03 Notwithstanding the provision of section Sa (9) and (10) of the Workers Compensation Act amendment of 1989, each employer throughout the first year after a work related injury to a worker shall make contributions on behalf of the injured worker to the U.A. Local 787 Benefit Plan for Health and Welfare Benefits and Pension Benefits at the amounts specified in articles 19:01 and 19:02 respectively based on the work week as outlined in article 11:01 of the Collective Agreement when the worker is absent from work because of a work related injury.

19:04 Contributions as specified in Articles 19:01, 19:02 and 19:03 will be made as outlined in Article 21:00.

Article 20: UNION DUES CHECK-OFF AND R.R.S.P. DEDUCTIONS

20:01 The Employer shall deduct from the employees wages in the first pay of the month (or after returning to work if the employee is absent the first pay of the month) a sum equivalent to one month's dues which is calculated on twice (2X) the employee's basic hourly rate that he/she is being paid prior to the vacation pay calculation.

The employer shall also deduct "Union Field Dues" from each employees weekly wages the amount of \$0.10/hour for all hours earned.

 $20{:}02\,\mathrm{Each}$ employer shall deduct from each employee's weekly pay cheque voluntary R,R,S,P, deductions as requested by the employee by written authorization.

The hourly deduction will be made from the employee's pretax earnings. 20:03 Deductions as specified in Articles 20:01 and 20:02 will be made as outlined in Article 21:00.

Article 21: MONTHLY REPORTS OF CONTRIBUTIONS AND DEDUCTIONS

21:01 Each month's submission of employer contributions and deductions as outlined in Articles 15, 17, 18, 19 and 20, must be made on the forms supplied by the Administrator. The same basic information is required for the J.T.A.C., Industry Fund, Welfare Trust Fund, Pension Trust Fund, Vacation and Statutory Holiday Pay Trust Fund, Union Dues Check-Off and R.R.S.P. Deductions.

All such funds and deductions will be combined for payment and report purposes. Contributions and deductions shall be reported and paid for each employee.

The earnings of each employee (basic rate x hours earned) must be reported in the appropriate spaces, totalled and the 10% multiplier applied to the total basic earnings of all employees as required in Article 15.

Effective May 1, 1992 a combined contribution rate of \$2.74 will be applied to the hours earned by each employee as required in Articles 17, 18, 19:01 and 19:02. Effective May 1, 1993 the combined contribution rate will increase to \$2.94 and effective May 1, 1994 the combined contribution rate will increase to \$3.34.

Union dues deductions and R.R.S.P. deductions of each employee as outlined in Article 20 must be reported in the appropriate spaces.

21:02 The Employer monthly report forms, together with a cheque for the full amount and made payable to the U.A. Local **787** Benefit Plan shall be sent to:

U.A. Local 787 Benefit Plan 419 Deerhurst Drive Brampton, Ontario L6T 5K3

21:03 The report forms and cheque must reach the Administrator on or before the 15th of the month following the month for which deductions and contributions are being made.

21:04 If an Employer does not remit reports and contributions in accordance with Article 21:03, he shall be considered to be in default and shall forthwith pay to the appropriate fund or the Union as liquidated damages and not as a penalty an amount equal to the greater of \$250.00 or 12% per annum calculated and compounded monthly on all amounts outstanding.

Consideration for interruptions in postal delivery will be given provided the Employer contacts the Administrator prior to the deadline as outlined in Article 21:03.

In the event that any proceedings are instituted to force a compliance with Article 21, the defaulting Employer shall be required to pay an additional \$250.00 to cover legal and/or administration costs.

The Administratorshall contact the defaulting $\operatorname{Employer}$ prior to applying this article.

21:05 If payment has not been received within 30 days after receiving written notice from the Administrator, the Union may withdraw its men from that Employer only. This action will not be considered an illegal strike.

Article 22: OWNER OPERATOR

22:01 It is agreed that owner-operators, as independent contractors or otherwise, are employees for the purpose of this Agreement and shall be covered by the same as herein set forth:

- (a) As a condition of any owner-operator performing any work covered by this Agreement, it is agreed that:
 - (i) He shall be a member of the Union in good standing.
- (ii) He shall assign, let or sub-let any work covered by this Agreement subject to the terms thereof;
- (iii) Contributions to the Refrigeration Worker's Local 787 O.R.A.C. Training Fund, Welfare Trust Fund, Pension Trust Fund and Industry Fund, shall be paid and remitted or deducted and remitted, as the case may be, by or on behalf of such owner operators as and when required by this Agreement and Schedules thereto

Article 23: COFFEE BREAK

 $23:\!01$ The Employer, shall permit a "coffee break period" of 15 minutes duration in each half of a shift, whether during a normal day or on shift work.

Article 24: PICKET LINES

24:01 Employees may honour a picket line established by any Trade Union or its members in support of a lawful strike at a project where an Employer is engaged. Such action shall not constitute an unlawful strike within the provisions of this Agreement and the Employer shall not institute or commence any applications, actions or proceedings of any nature whatsoever under the Ontario Labour Relations Act, this Collective Agreement or otherwise against the Union or any of its officers, officials, servants, employers, agents or members in connection with any such action.

Article 25: HIRING, LAY-OFF AND TERMINATION

25:01 It shall be the responsibility of the Employer or his hiring agent to verify that Journeymen are in possession of an Ontario Certificate of Qualification, and that a registered Apprentice make the necessary arrangement to have his indenture papers transferred to the J.T.A.C.

Non registered workers beginning their Apprenticeship will be registered as early as possible.

25:02 Prior to hiring, a new employee shall be presented with a copy of the "Company Policy", with which he will be expected to conform if hired (As per Article 8:02).

25:03 Prior to the new employee starting work, the Employer must receive a Work Referral Slip as issued by the Union, showing that the employee is a member of the Union in good standing and the month to which his dues are paid.

The employee will sign a Dues Deduction Authorization form which will permit the Employer to deduct dues from wages and remit the same on the monthly report form.

25:04 Should it become necessary to reduce the work force, the employer shall lay off **due to** a lack of work. For the purpose of lay **cff**, no notice is required. However if an employee is not recalled within 13 weeks the employee shall be deemed to be terminated and subject **to** the termination pay in lieu of notice provisions of Article 25:05.

This temporary lay **off** period may be increased to 35 weeks provided the employer continues to make Health and Welfare and Pension Contributions **on** behalf of the employee based **upon** the work week as outlined in Article 11:01.

25:05 (a) **No** Employer shall terminate the employment of an employee who has been employed for three months or more **unless** the Employer gives,

- one weeks notice in writing to the employee if his or her period of employment is less than one year;
- (2) two weeks notice in writing to the employee if his or her period of employment is one year or more but less than three years;
- (3) three weeks notice in writing to the employee if his or her period of employment is three years or more but less than four years;
- (4) four weeks notice in writing to the employee if his or her period of employment is four years or more but less than five years;
- (5) five weeks notice in writing to the employee if his or her period of employment is five years or more but less than six years;
- (6) six weeks notice in writing to the employee if his or her period of employment is six years or more but less than seven years;
- (7) seven weeks notice in writing to the employee if his or her period of employment is seven years or more but less than eight years;
- (8) eight weeks notice in writing to the employee if his or her period of employment is eight years or more.

- (b) The Employer also agrees that during this notice period, the employee will not receive any less than his regular weeks wages, vacation pay and benefits for each week of notice. "Week" as defined in Article 11:01.
- (c) In the event the Employer does not give an employee written notice, he shall pay the employee his regular wages, vacation pay and benefits for the period of notice the employee is entitled to.
- (d) In circumstances where an employees is unable to return all the Employer's property to the employer's place of business prior to end of his regular scheduled shift, the employee shall be paid his regular wages, vacation pay and benefits up to a maximum of four hours.
- (e) If an employee is terminated for just cause the Employer is not required to give notice, but the employee is entitled to the conditions outlined in 25:05 (d).
- (f) If an employee wishes to terminate his employment with the Employer he shall give a minimum of two weeks written notice.

The Employer shall continue to employ him as outlined in article 25:05 (b) or pay him in lieu of notice.

- (g) On termination the employee shall receive all monies owed to him on his next pay period or be sent to employee's last known home address
- (h) If the conditions as set out in 25:05 (a) through (g) are not complied with it shall be termed grounds for a grievance and referred to the Ontario Labour Relations Board under Section 126 of the Ontario Labour Relations Act as per Article 27:03.

Article 26: TOOLS AND UNIFORMS

26:01 The Employer shall supply:
all pipe wrenches, vices, taps and dies
all electric tools
all electric measuring instruments
all machinist measuring instruments
all air and gas measuring devices
all gas containers
all welding equipment, including wearing apparel and safety
accessories
specialty tools
vacuum pumps
power tools
wrenches over 1"

26:02 Each Journeyman, and Apprentice after completion of his first year, shall have and maintain a complete set of hand tools necessary to install air conditioning and/or refrigeration equipment. Employees will not supply tools listed in 26:01.

26:03 The employee will supply to the Employer at the time of employment a list of personal tools as mentioned in Article 26:02. It will be the responsibility of the employee to keep the list up to date for the purpose of replacement as outlined in Article 26:09,

26:04 Those tools supplied by the Employer will be maintained by the Employer. If these tools are lost or damaged, through the negligence of the Employer or other employees, then the Employer is responsible for the repair or replacing same.

26:05 Those tools supplied by the employee will be maintained by the employee. If **these tools** are lost or damaged through the negligence of the Employer or other employees, then the Employer is responsible for repair or replacing same.

26:06 The Employer agrees to supply non durable items used on Employers work, i.e. files, cutter wheels, reactor plates, gauges, hoses, drill bits, thermometers, etc.

26:07 Uniforms will be supplied by the Employer at no cost to the employee and the employee must wear the uniform.

The following list is the minimum requirement of an Employer supplied uniform:

6 Shirts

3 Pants

1 Jacket (service)

1 Parka or Bomber Jacket

This is not to be construed to designate a maximum quantity.

26:08 Safety boots will be supplied by the Employer at no cost to the employee, up to a maximum amount of \$95.00.

26:09 If an employee's tools are lost due to fire, flood, or forcible entry of job box, job shack or vehicle, etc., management must be notified immediately. Listed personal tools as required in Article 26.03 (to a maximum value of \$1,500.00) will be replaced immediately by the Employer. In the event of theft by forcible entry, the police and management must be notified immediately.

Article 27: GRIEVANCE PROCEDURE

27:01 Any employee who feels that he has been unjustly dismissed, unjustly laid off, unjustly suspended or unjustly dealt with in violation of this Agreement, must inform the Employer and the Union in writing within 5 working days of the violation and the matter will be dealt with from then on as a grievance.

27:02 Should any dispute arise between an Employer and the Union relating to the interpretation, application, or administration of this Agreement, including any question as to whether a matter is arbitrable or where an allegation is made that this Agreement has been violated or should any local trouble of any kind arise, there

shall be no suspension of work on account of such dispute, but an earnest effort shall be made by both parties hereto to settle without delay any such dispute in respect of which the following grievance procedure is set up.

First: The employee concerned may either alone or accompanied by the Steward of his department take the matter directly to his Foreman.

Second: If a settlement is not reached within a reasonable time the Steward may either alone or accompanied by a member of the Committee take the matter to the Department Manager.

Third: If a settlement is not reached with the Department
Manager within a reasonable time, the matter may be
discussed between the Steward, accompanied if so
desired by a representative of the Union, and the
Employer.

27:03 Grievances regarding delinquency of wages, fringes, pension, and welfare will **be** referred to Section 126 of the Ontario Labour Relations Act.

Article 28: ARBITRATION

28:01 Both parties to this Agreement agree that a grievance concerning the interpretation, application, administration or alleged violation of this Agreement and including any question as to whether the matter is arbitrable which has been properly carried through all the steps of the Grievance Procedure outlined in Article **27** above and which has not been settled will be referred to a Board of Arbitration at the written request of either **of** the parties hereto.

28:02 The Board of Arbitration shall consist of a single Arbitrator who shall be selected by mutual agreement between the Employer and/or O.R.A.C. and the Union within fourteen (14) calendar days from the receipt of the notice of intent to arbitrate. In the event of failure to agree, the parties shall submit a joint request to the Ministry of Labour of the Province of Ontario to appoint an Arbitrator

 ${\bf 28:03}$ The decision of the Arbitrator will be final and binding on both parties.

28:04 The Arbitrator shall not have any power to alter or change any of the provisions of this Agreement or to substitute any new provisions for any existing provisions, nor to give any decision inconsistent with the terms and provisions of this Agreement.

28:05 The expense of the Arbitrator shall be borne equally by the parties.

Article 29: JURISDICTIONAL DISPUTE

Jurisdictional disputes with other trades which cannot be resolved at a Local level will be referred to the National Joint Board

Article 30: STRIKE OR LOCK-OUT

30:01 There shall be no strike or lock-out during the term of this Agreement. Neither the Union nor any of the employees covered by this Agreement will collectively, concertedly or individually induce, engage or participate, directly or indirectly, in any strike, picketing, slowdown, stoppage or other curtailment or interference with the Employer's operation, or interference with the flow of materials or persons in or out of places where the Employer is doing business. The Union agrees to exert every effort through its Local Officers and Representatives to end any unauthorized interruptions of work.

The Employer will not lockout any of the employees covered by this Agreement. The parties agree that, in the manner set forth in Articles 27 and 28, they will submit to arbitration all grievances and disputes that may arise between them and any misunderstanding as to the meaning or intent of all or any part of this Agreement; provided however, the Employer shall not be required to resort to the grievance and arbitration procedures prior to resorting to other remedies in the event of violation of this Article.

30:02 In the event notice of modification of this Agreement is given by either party in accordance with Article 31 and agreement is not reached on the terms of a new Agreement, both parties agree to continue work under the terms of this Agreement on a day-to-day basis until such time that either a new Agreement has been reached or the matter has been settled by Arbitration.

30:03 After one party serves upon the other notice of desire to bargain for a new Collective Agreement, and in the event that the issues remaining in dispute cannot be settled through the negotiation process, the parties shall execute an irrevocable agreement to refer all matters remaining in dispute between them to a Board of Arbitration for final and binding determination in accordance with Section 38(1) of the **Labour Relations Act.** Where either party elects to refer the remaining issues in dispute to arbitration, each of the parties shall appoint a nominee of the Board of Arbitration. The two members appointed by the parties shall appoint a third member who shall act as Chairperson. Where the two members fail to agree upon a third member, either party may request the Office of Arbitration to appoint a Chairperson. The Board shall hear the issues in dispute and shall render a decision which will be final and binding upon the parties and upon any

employee or Employer affected by it. The decision of the majority shall be the decision of the Board, but if there is no majority, the decision of the Chairperson shall govern. Each party shall be responsible for the fees and expenses of the nominee appointed by it and shall be jointly responsible for the lees and expenses of the Chairperson.

Article 31: DURATION OF AGREEMENT

31:01 This Agreement shall remain in force until April 30. 1995 and shall remain in force from year to year thereafter unless either Party to this Agreement gives notice in writing to the other party within a period which shall not be more than 120 days or less than 90 days prior to the expiration of each term, of its intention to terminate this Agreement or seek amendments to same.

31:02 It is agreed that every effort will be made, by both parties to this Agreement, to conclude negotiations for a new Agreement before this Agreement expires. Should a new Agreement not be forthcoming prior to the termination date, work will continue under paragraph 30:02 and employees shall be entitled to retroactive pay for up to 30 calendar days.

31:03 Settlement of the wage package which includes Basic rate, Vacation Pay, Health and Welfare and Pension shall be the Journeymen's average wage package adjustment negotiated by the Plumbers/Pipefitters, Electricians and Sheet Metal Workers in I.C.I. Sector for Toronto and will be applied to the four zones in this Collective Agreement.

31:04 In respect to this Agreement, the signatory parties agree that at least once a year no later than ninety (90) days prior to the Anniversary Date the Union and ORAC will convene a meeting for the purpose of appraising the effectiveness of this Agreement.

If any article or provision or this Agreement shall be declared ineffective or undesirable, by mutual consent, the Union and ORAC will suspend, substitute, delete or amend any such article or provision of this Agreement to maintain the effectiveness and intent of this Agreement.

31:05 Notices: All notices required to be sent to the Union pursuant to this Agreement shall be effectively given when mailed to:

U.A. Local 787 419 Deerhurst Drive Brampton, Ontario L6T 5K3 All notices required to be sent to the Employer pursuant to this Agreement shall be effectively given when mailed to:

The Ontario Refrigeration & Air Conditioning Contractors Association 1400 Bayly Street Office Mall 11, Unit 7A Pickering, Ontario L1W 3R2

31:06 In witness to this Collective Agreement the members of the Negotiating Committee of both parties have hereby signed their names giving effect to this Agreement as of May 14, 1992.

Ontario Refrigeration & Air Conditioning Contractors Association

Marv Lindgren (Chairman) Vern Barney Dave Honsberger Dave Underwood Bruce Wilson (Alternate)

United Association of Journeymen and Apprentices of the Plumbers and Pipe Fitting Industry of the United States and Canada, Local 787.

Joe Carricato (Chairman) Al Butterfield Tony Finelli Ebb Harford

APPENDIX "A"

CONSTRUCTION DEFINITION

Construction is the original: custom prefabrication, or custom fabrication, or erection, or installation, or joining together or handling, or setting up, or charging, or start-up, or testing, or adjusting, or system balancing; including hydronics and air in any form of any equipment used in the air conditioning and refrigeration trade in the ICI construction sector. Where any component of a previously completed construction job is subsequently replaced with another component of a different size or capacity for the purpose of substantially changing the overall use, design, capacity or intent of the original system, such work is construction work. Construction covers all piping hanger materials for the installation of air conditioning and refrigeration equipment and systems regardless of size, and the installation of all manufactured equipment, built up or packaged, including the setting of same such as air handlers, condensers, towers, chillers, compressors, free standing coils and the installation of reheat coils controls where attached, condensate drain lines and refrigerated market equipment.

Work of the following types shall be deemed to come under the jurisdiction of this Agreement:

- (a) All piping and components used for primary and secondary refrigeration and cooling systems and the setting, hanging and installation of all units and fixtures for air conditioning systems, combination heat/cool units, heat pumps, ice making equipment, humidifying units, dehumidifying units, refrigeration units and cooling units and the charging testing and start up of all such equipment and systems.
- (b) The laying **out** and cutting of all holes, chases, and channels, the setting and erection of bolts, inserts, stands, brackets, supports, sleeves, thimbles, hangers, conduit and boxes, tubing raceways used in connection with the refrigeration and air conditioning industry.
- (c) All gas and arc welding, brazed, soldered, caulked, expanded and rolled joints in connection with the refrigeration and air conditioning industry.
- (d) Laying out, cutting, bending and fabricating, or all pipe work of every description relating to (a) by whatever mode or method.
- (e) All methods of stress relieving of all pipe joints made by every mode or method in the refrigeration and air conditioning industry.
- (f) The assembling and erection of tanks used in the refrigeration and air conditioning industry.
- (g) The handling and using of all tools and equipment that may be necessary for the erection and installation of all work and materials used in the refrigeration and air conditioning industry.

- (h) The dismantling and repair for reuse of all refrigeration and air conditioning equipment which involves the recovery, reclaim and reuse of any refrigerants.
- (i) All piping for cataracts, cascades (i.e. artificial water falls), make-up water fountain, captured waters, water towers, cooling towers, and spray ponds used for industrial manufacturing, commercial **or** for any other purposes in the refrigeration and air conditioning industry.
- (j) Piping herein specified means pipe made from metals, tiles, glass, rubber, plastic, or any other kind of material or product manufactured into pipe useable in the refrigeration and air conditioning industry regardless of size.
- (k) Hoisting, setting up, hanging and installing all equipment supplied by the refrigeration and air conditioning industry.
- (I) Installation and erection of sectional walk-in boxes and cold storage rooms, installation and erection of prefabricated insulated panels for cold storage rooms and installation and erection of temperature controlled displayed cases and cabinets used for display and storage of all items or products requiring a temperature controlled environment.
- (m) All piping to stoves, fire grates, blast and heating furnaces, ovens, driers, heaters, oil burners, stokers and boilers and cooking utensils, etc. of every description.

APPENDIX "B" DEFINITION OF ZONES

The definitions of the work zones as outlined below are determined from the lines drawn on a map of Ontario held in the union office together with the MASTER copy of this Collective Agreement.

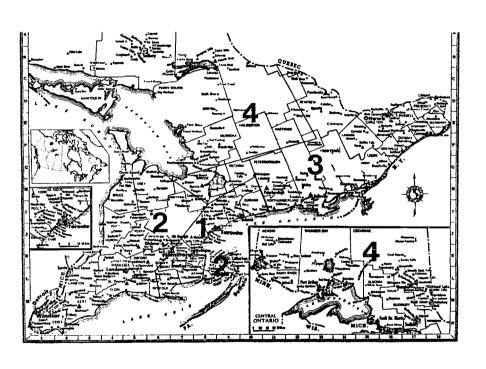
Zone 1—Is that portion of southern Ontario enclosed by (A) a straight line on its south eastern boundary drawn through the eastern limits of the town of Winona and the western limits of the town of Dunnville and extending to Lake Erie on the south and Lake Ontario on the north. (B) a straight line drawn from the north shore of Lake Erie, through the eastern limits of the town of Langton and the centre of the town of Otterville to terminate at the southern limits of the town of Norwich. (C) a straight line drawn from the southern limits of the town of Norwich north easterly through the southern limits of the town of Newmarket to the northern limits of the town of Mount Albert; then a straight line from the town of Mount Albert to the southern limits of the town of Bobcaygeon. (D) a straight line from the southern limits of the town of Bobcaygeon through the eastern limits of the town of Port Hope to the north shore of Lake Ontario.

Zone 2—Is shown on the map in two sections, (A) is all of the area

east of the straight line from Winona to Dunnville up to the International border and includes Grimsby, St. Catharines, Welland, Niagara Falls, Fort Erie, etc., (B) is all of the area in south western Ontario west of the boundary of Zone 1 and Zone 2.

Zone 3—Is the area (A) east of a straight line drawn from the south western limits of the town of Collingwood, through the north eastern limits of the town of Newmarket, and ends where the line joins the northern boundary of Zone 1. (B) that area east of the line running north from Lake Ontario and making the eastern boundary of Zone (I). (C) that area south of a straight line drawn from Nottawasaga Bay through the northern limits of the town of Elmvale to the town of White located on Highway 511 (approximately 50 miles east of the centre of Ottawa). (D) that area east of a straight line drawn from the town of Wensley on the south through the town of Killaloe Station and terminating at the Ottawa River, where this line and the line indicated in (C) intersect will be the termination point of each of the lines.

Zone 4—Is that area of the Province of Ontario north of the line forming the northern boundary of Zone 3 and the line drawn as noted in (D) of Zone 3.



APPENDIX "C" I.C.I. CONSTRUCTION COLLECTIVE AGREEMENT List of Employers

√ 379064 Ontario Limited

Ram Aire

Unit 2, 19 Kenview Blvd. Brampton, Ont. **L6T** 5G6

Phone: 458-4770 398362 Ontario Ltd. O/A Etobicoke Sheet Metal

> 20 Bethridge Road Rexdale, Ont. M9W 1N1 Phone: 743-3522

1110nc. 743-3322

462289 Ontario Limited

Tri-Air Systems 2370 Midland Avenue, Unit 6

Scarborough, Ont. M1S 5C6 Phone: 759-6787

559019 Ontario Limited

Atlantic Cooling

100 Sandiford Drive, Unit 43 Stouffville, Ont. L4A 8 A1

Phone: 642-2200 696533 Ontario Inc.

O/A &gar-Paterson

221 Barton Street East, Unit A Stoney Creek, Ont. L8E 2K3 Phone 573-9660

946766 Ontario Limited

Summit Mechanical

P.O. Box 1446

Peterborough, Ont. K9J 7H6 Phone: 705-740-0202

967431 Ontario Inc.

CTM/Corp Tech Management

4380 South Service Road, #25 Burlington, Ont. L7L 5Y6

Phone: 637-5533

979797 Ontario Ltd.

C & L Industrial Refrigeration 1875 Leslie Street, Unit 16 Don Mills, Ont. M3B 2M5

Phone: 445-7565

A & W Refrigeration & Air Conditioning 4854 Bathurst St., Apt. 412 Willowdale, Ont. M2R 1X3

Phone: 635-6866

A.C.T. Mechanical ContractorsLtd. 991 Matheson Blvd. East, Unit 14 Mississauga, Ont. L4W 2V3 Phone: 624-4883

Ainsworth Electric Co. Limited 131 Bermondsey Rd. Toronto, Ont. M4A 1X4

Phone: 751-4420

Air Con Systems

1710 Charles Street Whitby, Ont. L1N 1C2 Phone: 427-1995

Air Force Air Cond. Systems 1989 Ltd. P.O. 719 Suite 211, Gormley Centre Gormley, Ont. LOH 1G0 Phone: 887-1888

Air Stream Mechanical Systems 101 Kingsview Drive Bolton, Ont. L7E 3V6

Phone: 857-5505

Airco

Box 2664, Station A Sudbury, Ont. P3A 5J2 Phone: 705-673-2210

Airco Mechanical Ltd. 1 Ashbridge Circle, #8 Woodbridge, Ont. L4L 1A5 Phone: 631-2200

Albern Mechanical Limited 106 Rayette Road Concord, Ont, L4K 2G3

Phone: 669-6582

Amber Air Conditioning Ltd. P.O. Box 108 Woodbridge, Ont. L4L 1A9 Phone: 748:6552

Ambient Mechanical Ltd.

175 Toryork Drive, Unit 10 Weston, Ont. M9L 2Y7

Phone: 745-7112

Ansell Mechanical Ltd.

P.O. Box 1836

Peterborough, Ont. K9J 6Y5 Phone: 705-740-2000

APV Canada Inc.

6555 Cote de Liesse

Montreal, Quebec H4T 1E6

Phone: 514-737-0006

Branch Operations:

Toronto

Arch-Air Conditioning Inc.

43 Mahogany Court, Box 1, Unit 9

Aurora, Ont. L4G 6M8 Phone: 800-267-1444

Art Blake Refrigeration Limited

60 Pacific Court, Unit 7 London, Ont. N5V 3K4

Phone: 519-659-5808

Associated Mechanical Systems Inc.

200 West Beaver Creek Road, Unit 13

Richmond Hill, Ont. L4B 1B4

Phone: 731-2119

Avery Air-Cond. & Heating Service

527 Edgeley Blvd., Units 5 & 6

Concord, Ont. L4K 4G6

Phone: 660-4599

B I C Mechanical Ltd.

100 Westmore Drive, Unit 14

Rexdale, Ont. M9V 5C3

Phone: 748-9199

B I TemperatureControl

1251 Gorham Street, Unit 11

Newmarket, Ont. L3Y 5G9

Phone: 853-0841

Barron Refrigeration Limited Rosemount Avenue, Unit 2 Weston, Ont. M9N 3B3

Phone: 240-1893

Beaver Engineering Limited 2345 Stanfield Road, Suite 300

Mississauga, Ont. L4Y 4A6

Phone: 276-4002 Branch Operations:

Toronto, Weston, Mississauga,

Hamilton, London, Sarnia,

Windsor, Oshawa, Ottawa

Beebe Mechanical Systems 345 North May Street

Thunder Bay, Ont. P7C 3R3

Phone: 807-623-4181

Bering Mechanical Ltd.

261 Bering Avenue

Toronto, Ont. M8Z 3A5

Phone: 231-1414

Black & McDonald Limited

101 Parliament Street

Toronto, Ont. M5A 2Y7

Phone: 366-2541

Branch Operations:

Toronto, Hamilton, London

Black & McDonald Limited

2460 Don Reid Drive

Ottawa, Ont. K1H 8P5

Phone: 613-526-1216

Branch Operations:

Ottawa, Kingston

, Blenkhorn and Sawle Limited

100 Grantham Avenue

P.O. Box 3010

St. Catharines, Ont. L2R 7B9

Phone: 800-263-6570

Bonair Htg & A/C Ltd.

74 Martin Ross Avenue

Downsview, Ont. M3J 2L4

Phone: 661-4060

Brady & Seidner Associates Ltd.

801 Alness Street

Toronto, Ont. M3J 2H8

Phone: 661-1981

Broom's Mech. Contracting Limited 3440 Fairview Street Burlington, Ont. L7N 2R5 Phone: 634-7701 Canadian Commandaire Inc. 90 Nolan Court, Unit 34 Markham, Ont. L3R 4L9 Phone: 494-2317 Cardinal Mechanical Systems Inc. 20 Dalcourt Drive Scarborough,Ont. M1E 3H1 Phone: 724-5093 Carmichael Engineering Ltd. c/o 3822 Ave. Decourtrai Montreal, Quebec H3S 1C1 Phone: 514-735-4361 Branch Operations: Ottawa, Mississauga Carr Aire Ltd. 171 Rink Street, Suite 142 Peterborough, Ont. K9J 2J6 Phone: 705-749-6623 Carrier Canada Limited 1900 Minnesota Court, Suite 200 Mississauga, Ont. L5N 3C9 Phone: 826-9508 Branch Operations: Rexdale, Hamilton, London, Kingston, Ottawa Cascade Mechanical Services Limited 64 Martin Ross Avenue, Unit #12 Downsview, Ont. M3J 2L6 Phone: 665-6093 Centigrade Air Conditioning Ltd. 1630 Sismet Road, Unit 2 Mississauga, Ont. L4W 1R5 Phone: 629-1876 Central Refrigeration & Air Conditioning 20 Oakview Avenue Nepean, Ont. K2G3A1 Phone: 613-224-0948 Chad Air Systems

1006 Rouge Valley Drive Pickering, Ont. L1V 4G4 Phone: 286-4499 Cimco

65 Villiers Street Toronto, Ont. M5A 3S1 Phone: 465-7581 Branch Operations: London, Ottawa

Circa Refrigeration Inc. 27 Fisherman Dr., Unit 4 Brampton, Ont. L7A 1E2 Phone: 454-0648

Clow Darling Limited P.O. Box 578

Thunder Bay, Ont. P7C 4W4 Phone: 807-623-7485

Comstock Canada 3455 Landmark Road Burlington, Ont. L7M 1T4 Phone: 335-3333

Comstock Canada P.O. **Box** 11475, Postal Station **H** Nepean, Ont. K2H 9C8 Phone: 613-726-1983

Cornstock Canada 60 Tiffield Road Scarborough, Ont. M1V 3J1 Phone: 293-8800

Concept Air Systems Ltd. 400 Matheson Blvd. East Units 12 & 13 Mississauga, Ont. L4Z 1N8 Phone: 568-9252

Consistent Cooling Inc. 360 Guelph Street, Unit 45 Georgetown, Ont. L7G 4B5 Phone: 846-2036

Constant Temperature Control Ltd. 11 Millwick Drive Weston, Ont. M9L 1Y4 Phone: 741-6520

Cool Check Air Conditioning Limited 25 Coronet Road, Unit 4 Etobicoke, Ont. M8Z 2L8 Phone: 236-1000

. Coolbreeze Service Limited 6500 Northwest Drive Mississauga, Ont. L4V 1K4 Phone: 672-7887 / D J Diamond Refrigeration Cont. Ltd. 147 Blue Heron Drive Hyde Park, Ont. NOM 1Z0 Phone: 519-472-6262 Demand Air Systems Ltd. 164 Trowers Road Woodbridge, Ont. L4L 5Z3

Dial One Temp Air Control 5 Sandhill **Court** Brampton, Ont. L6T 5J5

Phone: **746-2005**

Phone: 458-9988

Doray's Refrigeration & Air Conditioning R.R. #3 Kerwood N.E.R., Ont. NOM 2B0

Phone: 519-247-3624

Douglass Refrigeration Incorporated P.O. Box 2199 800 Confederation Street Sarnia, Ont. NTT 2E3

Phone: 519-344-6994 Drennan Refrigeration Inc.

1777 Oxford Street East London, Ont. N5V 2Z6 Phone: 519-453-9100 Dunlis Mechanical ServicesLtd.

2 Carson Court Brampton, Ont. L6T 4P8 Phone: 793-6026

ES Fox Ltd.

P.O. Box 10 61 Thorold Road Welland, Ont. L3B 5P1 Phone: 735-2401 **Branch Operations:** St. Catherines, Kingston

Earlscourt Heating & Air Cond. 6214 Kestrel Road Mississauga, Ont. L5T 1Y9 Phone: 670-9002

Enera Controls 6740 Davand Drive Mississauga, Ont. **L5T 2K9** Phone: **670-2656** **Environs Services**

P.O. Box 2329 Sarnia, Ont. N7T 7S6 Phone: 519-332-6111

Executive Air Conditioning Inc.

23 Passmore Avenue, Units 11 - 13 Scarborough, Ont. M1V 4T3

Phone: 293-6224

Francis Contracting Ltd. 29 Cleopatra Drive Nepean, Ont. K2G OB6 Phone: 613-723-4700

G D R Mechanical Inc.

7362 Ashburn Road, R.R. #1 Brooklin, Ont. LOB 1C0 Phone: 427-6838

General Air Systems Inc. 65 Woodstream Blvd., Unit 17 Woodbridge, Ont. L4L 7X6 Phone: 740-2188

Gordon Wright Electric Limited 6260 Don Murie Street Niagara Falls, Ont. L2E 6X8 Phone: 356-5730

Grant Refrigeration

15 Wellington Street West Creemore, Ont. L0M 1G0 Phone: 705-466-2319

Grayco Air

1895 Clements Road Building B, Unit 146
Pickering, Ont. L1W 3V5 Phone: 428-0283

Graywood Electric 259 Edgeley Blvd., Unit 5 Concord, Ont. L4K 3Y5

Phone: 660-0878

H Griffiths Company Limited 285 Norfinch Drive Downsview, Ont. M3N 1Y8

Phone: 661-7070

H.V.A.C. Consultants Inc. 239 Weldrick Road Richmond Hill, Ont. LAC 5J2 Phone: 883-3493

√ HECO

24 Hiscott Street St. Catharines, Ont. L2R 1C6

Phone: 688-6350

Highland Refrigeration Services Ltd.

P.O. Box 614 Aurora, Ont. LAG 4J9

Phone: 841-9767

Honeywell Limited
740 Ellesmere Road

Scarborough, Ont. M1P 2V9

Phone: 293-8111

Branch Operations:

North York, Mississauga, Hamilton,

London, Windsor, Sudbury, Ottawa,

Thunder Bay

Hylton Heating and Cooling

1 Northolt Crescent

Markham, Ont. L3R 6P5

Phone: 477-5785

I.C.E.A. Systems Corp. 61 Advance Road, Unit #3

Etobicoke, Ont. M8Z 2S6

Phone: 239-4446

Inter Wide Services Ltd.

4120 Steeles Avenue West, Unit 11

Woodbridge, Ont. L4L 4V2 Phone: 744-7212

. Isotherm Engineering Ltd.

P.O. Box 196,

Clarkson Postal Station

Mississauga, Ont. L5J 3Y1

Phone: 279-2563

J L Energy Consultants Ltd.

265 6th Concession East

Millgrove, Ont. LOR 1V0

Phone: 333-5900

J L Wilson and Sons Limited 41 Fima Crescent Toronto, Ont. M8W 3R1 Phone: 252-3138

J R Hemborg Ltd. 1071 Warden Avenue Scarborough, Ont. M1R 2P4 Phone: 751-8415

J R Mechanical Systems Ltd. 29 Nuggett Court Brampton, Ont. **L6T 5A9** Phone: **458-6200**

J W Aubie Heating & Air Cond, Ltd. 105 Carrington Drive Richmond Hill, Ont. L4C 7X8 Phone: 883-1848

John Baycroft Mechanical Systems 1050 Britannia Road East, Unit 22 Mississauga, Ont. LAW 4N9 Phone: 670-2665

Johnson Controls

7400 Birchmount Road Markham, Ont. L3R 5V4 Phone: 494-1575 Branch Operations: Markham, Mississauga, Burlington, London, Windsor, Ottawa

Johnston & Damery Limited 7171 Torbram Road, Unit #12 Mississauga, Ont. LAT 3W4 Phone: **672-8585**

Jordan Boiler Repair Incorporated 385 Calderstone Crescent Scarborough, Ont. M1C 3A3

Phone: 282-9902 Kendale Mechanical Ltd.

71 Mountainview Road North, Unit 4

Georgetown, Ont. L7G 4J6 Phone: 897-2555

Landis & Gyr Powers Ltd. 1200 Courtney Park Drive Mississauga, Ont. L5T 1S2 Phone: 670-0133 Branch Operations: Mississauga, Hamilton, Ottawa √ Leda Refrigeration Limited (1984) 34 Racine Road Rexdale, Ont. M9W 2Z3 Phone: 745-7333 M A S Mechanical Ltd. 200 Signet Drive Weston, Ont. M9L 1T7 Phone: 740-5051 M.T.I. Ltd. 220 Royal Crest Court, Unit 18 Markham, Ont. L3R 9Y2 Phone: 513-1953 Major Air Systems Ltd. 20 Mural Street, Unit 1B Richmond Hill, Ont. LAB 1G6 Phone: 764-3200

Mapleridge Mechanical 1402 Altona Road Pickering, Ont. L1V 1M1 Phone: 286-9758

Margell Mechanical Contractors Ltd. 149 Milvan Drive Weston, Ont. M9L 1Z8 Phone: 749-1717

Mayfair Mechanical Contractors 570 Hood Road, Unit 12A Markham, Ont. L3R 4G7 Phone: 475-6051

 Mechanical Aire Services Ltd. 5080 Timberlea Blvd.., Unit 12 Mississauga, Ont. L4W 4M2 Phone: 629-4494

Mechanical Equipment Services 1255A Reid Street, Unit #8 Richmond Hill, Ont. LAB 1E9 Phone: 881-8900

Metro Mechanical Services Ltd. 180 Winges Road, Unit 13 Woodbridge, Ont. L4L 6C6 Phone: 856-4752

Michael Mechanical Services Ltd. 4161 Sladeview Crescent, Unit 1 Mississauga, Ont. L5L 5R3 Phone: 607-3230 Branch Operations: Ottawa, Toronto Michael Mechanical Sew. (Tor.) Limited 4161 Sladeview Crescent, Unit 1 Mississauga, Ont. L5L 5R3 Phone: 607-3230

Mitchell Refrigeration Ltd. 1635 Sismet Road, Unit 27 Mississauga, Ont. L4W 1W5 Phone: 624-1162

N & N Sheet Metal 1351 Winterberry Drive Burlington, Ont. L7P 4T7 Phone: 332-8824

Neelands Refrigeration Limited 1252 Northside Road Burlington,Ont. L7M 1H6 Phone: 332-4555

Nelco Mechanical Limited 77 Edwin Street, P.O. **Box** 1086 Kitchener, Ont. N2G 4G6 Phone: 519-744-6511

North York Mechanical Ltd. 2250 Midland Avenue, Unit 1 Scarborough,Ont. M1P 4R9 Phone: 321-5010

Northern Air Environmental Tech Inc. 107 Tycos Drive Toronto, Ont. M6B IW3 Phone: 789-7511

Nortown Air Systems 49 Densley Avenue Toronto, Ont. M6M 2P5 Phone: 235-2727

Oakwood Mechanical Systems Ltd. P.O. **Box** 157 Bowmanville, Ont. L1C 3K9

Phone: 623-5165 Ontario Air Systems 1793 Appleview Road Pickering, Ont. L1V 1T7 Phone: 837-1675

Ontario Electrical Construction Ltd. 494 King Street East Toronto, Ont. M5A 1L8 Phone: 363-5741

P.M. A Mechanical Inc. P.O. **Box 27** Nobleton, Ont. **LOG** 1N0

Phone: 948-2149

Pamar Mechanical Ltd. 14 Connie Crescent, Unit 7 Concord, Ont. L4K 2W8 Phone: 660-4187

Penn Refrigeration Limited 18 Seapark Drive, Unit 5 St. Catharines, Ont. L2M 6S6

Phone: 685-4255

Philip Doyle Mechanical Inc. 79 Covington Street Hamilton, Ont. L&E 2Y4

Phone: 561-0545

Prime Air Control Inc. 26 Underhill Drive, Unit 1112 North York, Ont. M3A 2J4 Phone: 287-2454

Principal Heating Company Limited 67 Penn Drive Weston, Ont. M9L 2A6 Phone: 741-3030

Pro-Tech Mechanical Services Ltd. 685 Hamilton Road London, Ont. N5Z 1T4 Phone: 519-452-1631

R E Comer Refrigeration 415 Big Bay Point Road Barrie, Ont. L4N 3Z3 Phone: 705-721-1960

R N Mechanical 1220 Ellesmere Road Scarborough,Ont. M1P 2X5 Phone: 299-4439

Readair Mechanical Services Ltd. 271 Nantuckett Blvd. Scarborough, Ont. M1P 2P2

Phone: **759-9355**

Robcan Air Conditioning Ltd. 7955 Torbram Road, Unit 19 Brampton, Ont. L6T 5B9 Phone: 459-4455

Robertson & Associates Mech. Cont. 35 Stafford Road Nepean, Ont. K2H 8V8 Phone: 613-596-2744

Rosetown Central Refrigeration 195 Wilkinson Road Brampton, Ont. L6T 4X1 Phone: 451-3147

Rothmar Manufacturing Corporation 1234 Reid Street, Unit #3 Richmond Hill, Ont. L4B 1C1 Phone: 250-8588

RRM Service **Co. Box 5192,** Terminal A

Toronto, Ont. M5W 1P8 Phone: 237-4659

Sarnia Commercial & Ind. Refrigeration Ltd. 835 Ontario Street Sarnia, Ont. N7T 1N1 Phone: 519-336-0930

Sartech Mechanical Services Ltd. 708 Charlesworth Drive Sarnia, Ont. N7V 2R9 Phone: 519-383-8236

Sayers & Associates Limited 2240 Argentia Road Mississauga, Ont. L5N 2X6 Phone: 821-4500

Scott Mechanical Limited 5155 Spectrum Way, Unit 33 Mississauga, Ont. LAW 5A1

Phone: 625-4724 Sentry Air Systems 5359 Timberlea Blvd., Unit 52 Mississauga, Ont. LAW 4N5

Phone: **629-4766**

Shea Control Systems Ltd. 304 Grays Road North Stoney Creek, Ont. L8E 1V5 Phone: 561-9731

Sherway Temperature Control 1 Whitmore Road, Units 1 & 2 Woodbridge, Ont. L4L 8G4 Phone: 850-8585

Solomon Energy Systems Limited P.O. **Box** 1660, Highway 89 W Alliston, Ont. LOM 1A0 Phone: 705-435-6243

Spring Water Ice Ltd. 2060 Hadfield Court, Burlington, Ont. L7M 3V4 Phone: 689-6464

Springbank Mechanical Systems Ltd. 3170 Ridgeway Drive, Unit 15 Mississauga, Ont. L5L 5R4 Phone: 569-8990

Stan Newmarch Mechanical Ltd. 165 Fielding Road, R. R. #2 Lively, Ont. P0M 2E0 Phone: 705-682-0691

 ✓ Standard Mechanical Systems Limited 3055 Universal Drive Mississauga, Ont. L4X 2E2 Phone: 625-9505 Branch Operations: Mississauga, Ottawa

Stannair Conditioning Inc.
1726 Mattawa Avenue
Mississauga, Ont. L4X 1K1
Phone: 270-2930
Branch Operations:
Mississauga, Markham, Barrie,
Kingston, Ottawa

State Contractors
2150 Islington Avenue, 4th Floor
Etobicoke, Ont. M9P 3V4

Phone: 240-0610

Strickland Mechanical P.O. Box 338, Conn. #4 Virgil, Ont. LOS 1T0

Phone: 468-3721

SuperiorTrade ServicesLimited 50 Thornmount Drive, Unit 30 Scarborough, Ont. M1B 3J4 Phone: 281-3351

Sutherland-Schultz Limited 859 Courtland Avenue East Kitchener, Ont. N2C 1K4 Phone: 519-743-4123

Sydenham Sales and Service Limited P.O. Box 1657

Kingston, Ont. K7L 5C8 Phone: 613-548-8699

T & D Air Cond. Processes Inc. 13 Casper Crescent Brampton, Ont. L6W 4N3 Phone: 792-6688

Techaire Systems Canada Inc. 5 Sandhill Court, Unit D Brampton, Ont. L6T 5J5 Phone: 790-0700

Techore Heating & Cooling Co. P.O. Box 160 Streetsville, Ont. L5M 2B8 Phone: 828-8976

Thermal Mechanical Systems 910 Memorial Avenue Thunder Bay, Ont. P7B 3Z9 Phone: 807-345-5200

Trane Service Agency (Hamilton) 10 Sanford Avenue North Hamilton, Ont. L8L 5Y6

Phone: 528-8648

Trane Service Agency (Toronto) 4051 Gordon Baker Road Scarborough, Ont. M1W 2P3

Phone: 499-5100

Trane Service Agency (London) 8 Belleisle Court London, Ont. N5V 4L2 Phone: 519-453-3010

Trane Service Agency (Kitchener) 38 McBrine Avenue, Unit 7 Kitchener, Ont. N2R 1G8 Phone: 519-895-0950

Trans Air Mechanical Ltd. 658 Merlin Court Oshawa, Ont. L1K 1M3 Phone: 434-8132

Transcool Inc.

1764 Oxford Street East, Unit J-11 London, Ont. N5V 3R6

Phone: 519-457-2390

Trisar Limited
1376 Lougar Avenue
Sarnia, Ont. N7S 5N7
Phone: 519-336-7400

Westaire Air Conditioning & Htg. Ltd. 70 Wesley Avenue Mississauga, Ont. L5H 2M9 Phone: 278-8868

Wm. Roberts Electrical & Mechanical P.O. Box 1296 Kitchener, Ont. N2G 4H3 Phone: 519-578-2230

> Xtra Mechanical Limited 606 Rivermede Road, Unit 13 Concord, Ont. L4K 2H6 Phone: 738-8802

√ York Air Conditioning Limited 375 Matheson Blvd. East Mississauga, Ont. L4Z 1X8 Phone: 890-7499 Branch Operations: Mississauga, Ottawa

PROVINCIAL NON I.C.I. CONSTRUCTION, SERVICE AND MAINTENANCE COLLECTIVE AGREEMENT (1992)

between

O.R.A.C.

and

U.A. LOCAL 787

NON I.C.I. CONSTRUCTION, SERVICE AND MAINTENANCE COLLECTIVE AGREEMENT (1992)

BETWEEN:

The Unionized Maintenance and Service Contractor Members of the Ontario Refrigeration and Air Conditioning contractor: Association, **as** listed in the Appendix "D", herein referred to as O.R.A.C.

AND

Local 787 of the United Association of Journeymen and Apprentices of the Plumbing and Pipe Fitting Industry of the United States and Canada, designated as the Employee Bargaining Agency under the Ontario Labour Relations Act and hereir referred to as the "Union".

TERRITORIAL JURISDICTION

The Territorial Jurisdiction of this Agreement is the whole ares within the boundaries of the Province of Ontario.

Article 1: PURPOSE

The purpose of this Collective Agreement is to establish and maintain terms and conditions of employment between the Association, the Employer, and the members of the Union, and to provide a method of settling any differences which may arise between them.

Article 2: AGREEMENT

This Agreement constitutes the entire Agreement between the parties. No modification to any of the terms or conditions of this Agreement shall be valid unless made in writing and signed by both parties.

Article 3: CONTEXT

This Agreement shall be read and construed as if all orthographical and grammatical changes had been made and wherever the singular and masculine are used throughout they shall be construed as if the plural and feminine or neuter had been used where the context or the parties hereto require.

Article 4: EMPLOYER

The term "Employer" in this Agreement is construed to mean the Association, any company, partnership, sole proprietorship, or otherwise which is bound by this Agreement.

Article 5: RECOGNITION

5:01 The Association recognizes Local Union 787 as the sole and exclusive bargaining agent for all Journeymen Foremen, Journeymen and Apprentice Refrigeration and Air Conditioning Mechanics, Maintenance Mechanics, save and except persons above the rank of working Foreman, employed by Employers in the Province of Ontario engaged in all of the Employers maintenance and/or service activities and all construction work in the Province of Ontario, other than construction work in the Industrial, Commercial and Institutional Sector in the Refrigeration and Air Conditioning trade.

- (a) Subject to the express terms of this Collective Agreement and specifically to Article 8 Paragraph 8:03 (a) and (b), the Union recognizes the right of the Employer to operate and manage his business in accordance with his commitments and responsibilities.
- (b) Non-bargaining unit management employees of the Employer or the Employer's vendors or contractors may be involved in any job for the purpose of instruction and training.

The following are solely and exclusively the responsibility of the Employer:

- (1) The location of Company workshops and warehouses.
- (2) Designation of work to be done and responsibilities of each amployee.
 - (3) Scheduling of work.
- (4)Methods and means by which the work is to be accomplished within the provisions of all Safety Regulations.
- (5) The right to decide on the number of employees needed by he Company at any time.
- (6) The control of all operations and buildings, machinery and ools owned or rented by the Company. The direction of the imployees, including the right to hire, suspend or discharge for ust cause and the right to relieve employees from duty because of ack of work or other legitimate reasons is vested exclusively with the Employer subject to this Agreement and in particular, subject to the grievance and arbitration procedures provided herein.
- (7) The Employer agrees that in the exercising of its management ights and in the administration of this Agreement, it shall do so in fair and reasonable manner.

- 5:02 Except as may otherwise be provided for herein:
- (a) All employees covered by this Agreement shall, as condition of employment or continued employment, be membe of the Union in good standing.
- (b) In the event that an employee fails to tender to the Union the required initiation fee or monthly dues and for any reason become a suspended member of the Union, the Employer will not assign work to such employee upon request by the Union.
- 5:03 Employers will obtain from the Union all persons require to perform any of the work described in Appendix "A" and "E attached hereto, except if Union members are not available, the Employer may hire other qualified workers, provided they may application to join the Union before employment commences. For clarification, the intent is, if the Employer requires a specifical trained employee and none are available on the Union "out work" list, an Employer may, if he decides the workers on the lare not suitable, hire an employee provided Article 25 has be adhered to. The Union will notify the Employer within 48 hours the worker's acceptance.
- (a) The Employer shall retain the right to reject for just cause at applicant referred by the Union. The Employer shall retain t right to terminate any employee for just cause providing t Employer so states in a termination notice.
- 5:04 The Union shall take reasonable steps to ensure that none its members are employed by Employers not bound by the Agreement with the Union, This is not to be construed to preven member securing employment outside of his trade.
- 5:05 No member of the Union while employed by an Employ bound by this Agreement shall perform work as outlined Appendix "A" and "B" of this Agreement for anyone other th his Employer without permission from both his Employer a Union.

Article 6: EMPLOYEE

6:01 Under the terms of this Agreement there shall be t following categories or classes of employees:

Journeyman Foreman Journeyman Mechanic Apprentices Maintenance Mechanics Students

which categories or classes are defined as follows:

6:02 JOURNEYMAN FOREMAN — The determination of the umber of foremen, if any, is solely the responsibility of the mployer. The Employer's salaried personnel may handle all the ispatching and assignment of duties.

6:03 JOURNEYMAN MECHANIC — Shall designate a person ho holds a valid Certificate of Qualification for the Province of Intario and who has passed any examination which may be equired by the Local 787 Examining Board.

6:04 APPRENTICE – Shall designate any person who engages imself for a minimum period to an Employer for the purpose of arning the trade as laid down by the Ontario Apprenticeship and radesmen's Qualification Act. He will attend all courses of study 3 laid down by the Act and by the Joint Training and Apprentice-up Committee.

The Employer shall be permitted a ratio of one Apprentice for the first Journeyman member, and then permitted an additional prentice for every three additional Journeymen members imployed.

6:05 MAINTENANCE MECHANICS — Must be qualified to erform and shall be allowed to perform the work listed in ppendix "B".

6:06 STUDENTS — For the purpose of this Agreement, the rm "student" shall mean a person who, except for summer acation period or work study period, would normally be attending Ill time at High School, Vocational School, or University and king subjects relating to the Refrigeration and Air Conditioning rade.

The intention of this clause is to enable an Employer to give actical experience during summer months to a person whose sclared intention is to seek employment in the Trade upon aduation from school, and is not intended as a source of casual bour.

- (a) The Employer involved must employ the maximum number of pprentices as allowed by the ratio stated in Article 6:04 before hiring student.
- (b) The foregoing notwithstanding, no Employer shall employ more an one "student" for every eight (8) union members employed, ccept, any Employer employing at least five (5) members of the nion may hire one "student".
- (c) Students will be required to pick up a temporary work card and ork referral slip prior to starting work.

Article 7: RESPONSIBILITY OF EMPLOYEES

For the purpose of establishing a minimum responsibility employees will be described in four (4) categories:

Journeyman Foreman Journeyman Mechanic Apprentice (Student) Maintenance Mechanic

7:01 GENERAL — The Employee shall:

- (a) Assume his position with his Employer according to h qualifications in the industry and shall accept the following as th minimum requirements and terms of his employment, but shall not be limited to them or relieved of further responsibility delegated to the Employer.
- (b) Arrive ready for work suitably and neatly dressed at tE normal starting time unless prevented by his Employer from doin so.
- (c) While in the possession of an Employer's tools, equipmen materials, vehicles or other Employer's property take **a** reasonable precautions to prevent damage, loss, theft, breakage misuse. etc.
- (d) Ensure that an Employer's vehicle, when provided for h use, is employed in accordance with the "Company Policy" ar operated in a manner which will result in maximum useful life an maximum economy. While all costs for maintenance and repair are borne by the Employer, the employee will advise the Employe immediately and in writing, with a copy to be retained by the employee, of any servicing that may be required to keep the vehicle in good and safe running order and presentable appearance.
- (e) When representing his Employer, make every effor according to his qualifications, to look after the best interests of th Employer.
- (f) All employees shall be required to have and wear approve safety boots or shoes, and safety hats as a condition of employment. The employee shall provide the safety hat at his on expense unless the Employer demands a safety hat of a particular colour or style, in which case the Employer shall supply it/them the Employer's expense. Safely hats supplied by the Employer shall be returned to the Employer by the employee on termination of employment. It shall be the responsibility of the employee to be knowledgeable of the Safety Regulations under the Occupation Health and Safety Act 1978.

7:02 JOURNEYMAN FOREMAN — Shall be capable of nstructing Journeymen and Apprentices in the actual repair work rom instructions given by his Employer and perform the work of a ourneyman Mechanic when so required by his Employer.

7:03 JOURNEYMAN MECHANIC

- (a) Journeyman Mechanic shall when issued a specific job issume the role of a mechanic and representative of the Employer and take the initiative to perform the work, according to the best tractice of this industry. Where circumstances are beyond his control he shall immediately advise his superiors.
- (b) When working with an Apprentice, a Journeyman Mechanic hall guide and instruct the Apprentice to ensure that the production of the Apprentice is of the best possible quality.
- (c) A Journeyman Mechanic shall take reasonable steps to ensure hat upon his leaving a job, the safety of other employees of the imployer engaged at the project are not in jeopardy due to necured equipment or materials. Upon completing a project or saving a project for a sustained period of time, a Journeyman Aechanic shall clean up the job site or shall make arrangements to ave this done according to the project requirements.
- 7:04 APPRENTICE The responsibility of an Apprentice is overed under the direction of the Joint Training and Apprenticeship committee.
- (a) He will work under direct supervision of a Journeyman member f the Union and be responsible to the Journeyman for the work which e has performed. He shall follow the instructions and directions of the Jurneyman.
- 7:05 MAINTENANCE MECHANICS Under the terms of this greement, there shall be the following categories or classes of faintenance Mechanics:
- 1. Junior Maintenance Mechanic
- 2. Maintenance Mechanic

Which categories or classes are defined as:

JUNIOR MAINTENANCE MECHANIC - A person employed for taintenance and has had no formal training by the Employer, and will sceive starting rate, as shown in Article 14, until he is qualified.

MAINTENANCE MECHANIC-A person employed for taintenance and has received training as the Employer deems necessary, and will receive full rate as shown in Article 14.

Article 8: RESPONSIBILITY OF EMPLOYER

8:01 An Employer shall attempt to keep an indenture Apprentice active in his relative training until completion of h Apprenticeship. Should the Employer find it necessary to lay off a Apprentice, that Apprentice or an Apprentice with the same yea of experience or greater shall be recalled or hired when wor becomes available. If the Apprentice or Apprentices with the sam years of experience or greater are not available at the time c recall, this provision shall not apply.

8:02 Before hiring a member of Local 787, an Employer mu present a written copy of the Employer's "Company Policy", copy MUST be deposited on file at the Union office and ti employee shall sign an appropriate form as proof that he hi received a copy of the Employer's "Company Policy". Polic shall include such items as working hours, the wearing uniforms, and use of Employers/employees vehicles, etc.

The "Company Policy" shall not contravene this Agreement any other applicable legislation.

Revision of "Company Policies" must be deposited on file at the Union office and each and every employee affected by the chang must be advised.

8:03 The Employer shall:

- (a) Assign exclusively to members of the Union all of the word described in Appendix "A" and "B", attached hereto and formir part of this Agreement.
- (b) Employers will not sublet refrigeration or air conditionir work to non-union contractors.
- 8:04 The Employer will keep Company vehicles in proposechanical and safe condition. If a dispute arises, the governir body will be "The Ministry of Transportation and Communication Vehicle Inspection Section".
- (a) All Employer's vans will be equipped with metal safe shields or bulkheads of equivalent strength between the driver ai the load. The Employer's vehicles will be equipped with First A Kits, Fire Extinguishers and Safety Flares.
- (b) It is the employees responsibility to notify the Employer any deficiencies in either 8:04 or 8:04(a).
- 8:05 The Employer shall show proof of Insurance Coverage (minimum \$1,000,000.00 Public Liability and Property Damage of vehicle and employee during working hours, and after working hours while using vehicle according to "Company Policy' Written proof and permission must be issued to employing involved.

8:06 It shall be the responsibility of the Employer to comply with the regulations under the Occupational Health and Safety Act, 1978, on all jobs where Union members are employed.

8:07 The Employer will provide employees with credit cards, pump keys, cash or other suitable methods of paying for gas, oil, service and minor repairs to Employer's vehicle, parking fees, etc. In some instances an employee may be required to purchase minor material in which case he shall be provided with a cash floater if he requests it. If a cash floater is provided, it will be replenished at suitable intervals on submission of receipts for money spent. The cash floater is for the benefit of the Employer and must be available at all working time for that purpose.

Article 9: UNION STEWARDS

9:01 The Union may appoint, and the Employer shall recognize a Steward for each shop, job or area. The Employer's General Manager shall be notified in writing of the name of the Steward when the appointment becomes effective. The Steward shall be recognized as the representative **of** the Union for the shop, job or area in which he is working and no discrimination shall be shown against him for carrying out his Union duties. He shall not be laid off, transferred or discharged by reason **of** executing his Union duties and responsibilities as a Steward.

9:02 The Steward shall assist in adjusting differences which may arise out of the interpretation, application or alleged violation of this Agreement.

9:03 He shall **see** that the provisions of this Agreement are complied with and report any infractions to the office **of** the Union. This also applies to safety regulations.

Article 10: UNION REPRESENTATIVE

10:01 An official representative of the Union shall have access to projects during working hours providing this is within the control of the Employer.

10:02 An official representative of the Union when entering a project shall when practicable, advise the Superintendent or Employer of his visit and at no time shall he interfere with job progress unless there is a matter of dispute on the job, in which case the matter must be discussed with the job Superintendent or Foreman, so that no unnecessary work stoppage occurs.

10:03 An official representative of the Union shall be granted unpaid leave of absence when required for Union business provided that reasonable notice is given to the Employer.

Article 11: HOURS OF LABOUR

11:01 The ordinary hours of work shall be eight consecutive hours per day not including time for lunch, between 7:30 a.m. and 5:30 p.m. Monday to Friday inclusive with one half hour off for lunch making a regular work week of 40 hours. Normal job starting and job quitting times to be determined by the Employer in accordance with area or Employer's practice provided they are within the ordinary hours of work.

Changes to normal starting and quitting times for special reasons may be arranged between the Employer and employee by mutual agreement. Any Employer wishing to revise normal starting and quitting time shall provide 7 days notice to the employees.

- 11:02 It is recognized by both parties to this Agreement that the industry has a responsibility to provide emergency service to its customers outside of normal working hours.
- 11:03 Employees who have been requested by the Employer to provide such service, and agree to do so, will be required to be available to accept calls outside normal working hours, and, as compensation for inconvenience incurred, will be paid "stand-by" pay in addition to hours worked, as outlined in 11:04. This emergency work will be offered on an equal basis to all qualified Journeymen mechanics available in the service of the Employer.
- 11:04 STAND-BY When an employee is requested by the Employer to stand-by and be available to perform emergency work outside of the scheduled hours of work, he shall be paid the following:
- Monday -1/2 hour at the man's straight time rate plus actual hours worked at the prevailing rate.
- Tuesday -1/2 hour at the man's straight time rate plus actual hours worked at the prevailing rate.
- Wednesday -1/2 hour at the man's straight time rate plus actual hours worked *at* the prevailing rate.
- Thursday -1/2 hour at the man's straight time rate plus actual hours worked at the prevailing rate.
- Friday -1/2 hour at the man's straight time rate plus actual hours worked at the prevailing rate.
- Saturday 1 hour at the man's straight time rate plus actual hours worked at the prevailing rate.
- Sunday 1 hour at the man's straight time rate plus actual hours worked at the prevailing rate.
- Statutory Holidays 1 hour at the man's straight time rate plus actual hours worked at the prevailing rate.

11:05 SHOW UP PAY — Unless an employee is informed prior to the end of the previous work day he should not report to work on the following work day, such employee shall be paid an amount equal to four hours wages (including vacation pay and all other financial benefits provided for in this Agreement) and must take work available.

11:06 BEREAVEMENT LEAVE - In the event of a death in the employee's immediate family, i.e. the employee's children, parents, grandparents, brothers, sisters, spouse, spouse's parents, grandparents, the Employer will grant to the employee up to 3 days leave of absence with pay for the purpose of making arrangements for, or attending the funeral or memorial service. Pay shall be at the employee's straight time rate and shall be paid only for claims which occur on a day or days which the employee would be regularly scheduled to work.

11:07 In the event that an accident occurs whilst a Union member is on Employer business, which necessitates the member having to visit a doctor or hospital for treatment, etc., the time lost by the member shall be paid for by the Employer. If it is necessary for a Local 787 member to be taken for treatment by a second member, his time will also be paid for by the Employer. It is the intent that members would only be paid up to the completion of the shift which they were working at the time treatment was required.

11:08 JURY DUTY — Jury Duty Compensation will be paid if a member of the Union is summoned for Jury Duty or as a Crown Subpoenaed Witness. For each day that he is compensated for by the Crown, he shall be compensated by the Employer at \$25.00 per day and by the Union at \$25.00 per day up to a maximum of 4 calendar weeks or 20 working days. Proof of payment by the Crown shall be presented to the Employer and to the Union.

Article 12: OVERTIME

12:01 All time worked before and after the established work day of eight (8) hours, Monday through Friday, and all time worked on Saturday, Sunday and Statutory Holidays recognized in 12:02 shall be paid for at time and one-half or as provided for by the Provincial Law whichever is greater.

12:02 STATUTORY HOLIDAYS — Recognized Statutory Holidays are New Year's Day, "Heritage Day" (if declared), Good Friday, Victoria Day, Canada Day, Simcoe Day, Labour Day, Thanksgiving Day, Christmas Day, and Boxing Day. When Statutory Holidays fall on a Saturday or Sunday, the next work day or work days shall be designated as Statutory Holiday(s) or as designated by the Government.

12:03 SHIFT WORK — On repair work where it is necessary for a mechanic to work a night shift instead of a day shift or both night and day shifts, the worker shall be paid a 15% shift premium.

Shift rates apply only to shift starting after Sunday midnight and finishing Friday midnight.

12:04 PERMANENT SHIFT WORK CONDITIONS — For plants, complex and/or projects, a four-cycle shift system may be operated when work is performed on a seven (7) day continuing basis. The Names of those men employeed on permanent shift will be published, showing shift rotation and the working shift or the day off for each man, for a period of at least three (3) months.

Shift rates apply only to shifts starting after Sunday midnight and finishing Friday midnight. All hours over 8 hours worked in any one shift as described in 12:06 shall be paid for at overtime rates. No worker shall be required to work more than one shift in any 24 hour period.

12:05 The shift rate premium for the second shift shall not be less than 10% of the first shift rate and the shift rate premium for the third shift shall not be less than 15% of the first shift rate.

12:06 The standard work day under permanent shift working conditions shall be eight (8) hours of continuous employment, including one-half (1/2) hour paid lunch period. Forty (40) hours per week shall constitute a week's work. All time worked in excess of eight (8) hours per day and all! time worked on either one of the two scheduled off days shall be paid for at a rate not to be less than time and one-half.

12:07 If any man reports late for work, no overtime will be paid until a full day or shift has been completed from time of reporting. A man is not late if he is asked to report after normal starting time.

Article 13: TRAVEL

13:01 The free zone shall be the area within a 50 km radius from the Employer's permanent place of business, shop, branch office or depot.

13:02 Employees will be on the job within the free zone by regular starting time. Workers travelling to a job outside the free zone shall be at the boundary of the zone nearest to the job site by regular starting time and regular quitting time.

13:03 Any member not supplied with transportation by the Employer and therefore uses his own vehicle shall receive \$0.40 (cents) per km for the use of his own vehicle while on Employer's business. For **the** purpose of computing mileage, it will be assumed that the day begins and ends at the shop and mileage will be computed from shop to shop, shop to job, job to job and job to shop.

In a situation where an employee is required to use his own vehicle on a one call or one day basis, the employee will be paid the mileage rate as above or \$25.00 per day or per call whichever is the greater amount. In situations where an employee is required to use his own vehicle on a regular basis (weekly), he will be paid the mileage rate as above or the minimum of \$100.00 weekly, whichever is the greater amount. Under no circumstances will the daily amount of \$25.00 accumulate to exceed the weekly minimum amount of \$100.00 in any one pay period.

Employees shall not carry more than their personal tools plus 45.5 kg (100 lbs.) of Employer's tools and supplies in their personal vehicle.

13.04 Travel Expenses are to be paid at the same time as wages are paid.

13:05 It is agreed that each employee will carry a minimum of 1,000,000.00 Public Liability and Property Damage Insurance on his ehicle at business rates if vehicle is used on Employer's business and hat he will file a copy of the policy endorsement with the Employer.

13:06 The Employer agrees to pay parking fees incurred by employee vhile on Employer's business.

13:07 All employees sent out of the free zone to work and who do ot return daily to their normal residence shall receive expenses acurred in obtaining meals and accommodation, and other legitimate xpenses incurred, including transportation costs whether by air, train, us, etc. If travelling at night by train, a sleeper is provided.

13:08 Expense money shall be advanced to each employee for meals nd lodging sufficient for the expected duration of the job, (or weekly if the bb is expected to last longer than seven days) and a detailed amount subtantiated by receipts shall be submitted to the Employer by the employee.

13:09 If an employee is requested to use his vehicle for a job outside to free zone, any travelling involved during the course of the job or bbs, including return trips as outlined in 13:10 will be done in the mployee's vehicle at the rate outlined in 13:03.

13:10 During the course of a job where the employee does not return his normal residence daily he will be entitled to return home on the bllowing basis:

- (a) every week for jobs within 161 km (100 miles) of the free zone.
- (b) every two weeks for the jobs within 644 km (400 miles) of the ee zone.
- (c) every three weeks for jobs over 644 km (400 miles) from the free zone.

If the employee does not wish **to** return home at the above stated itervals the Employer will continue the payment for lodging and meals during the weekend. If the employee does return home he will receive transputation **costs** as outlined in Article 13:07 but will **not** receive payment for a velling time. Travel arrangement will be controlled by the Employer.

13:11 When on jobs out of the free zone over five (5) days duration I employees shall be allowed one personal phone call of 3-minutes mit, per week paid by the Employer.

13:12 Employees will not be expected to use their own money for consess incurred on behalf of the Employer.

13:13 In cases where, for Employer's reasons, the employee has the use 'an Employer supplied vehicle to drive from employee's place of residence the free zone, the employee shall, if requested, reimburse the Employer or the use of the vehicle at a rate not greater than specified in Article 13:03.

rticle 14: WAGE RATES

14:01 The Province of Ontario is divided into four zones as indicated on the ap inserted at the end of this Agreement The location of the dividing lines tween the zones is described in Appendix C of this Agreement.

14:02 If a man works outside his zone, **or out** of the Province, he is **to** be paid the prevailing rates for the zone in which he is working,

to be paid the prevailing rates for the zone in which he is working, provided it is not less than that paid in his own zone.

14:03 The following charts show the hourly rates which will apply from date of Memorandum of Agreement to April 30th, 1995 for all Local 787 Journeyman members and U.A. members of other locals working on a Travel Card in Local 787.

Zone 1	JOURNEY Basic Rate	MAN WAGE 10% V&S.HP.	PACKAGE Pension H&W Tng. Ind. Fund	Total Pkg.
05/01/92	\$29,14	\$2.91	\$2,74	\$34.79
05/01/93	\$30.14	\$3.01	\$2.94	\$36.09
05/01/94	\$31.14	\$3,11	\$3,34	\$37.59
Zone 2				*
05/01/92	\$28.64	\$2,86	\$2.74	\$34.24
05/01/93	\$29.64	\$2.96	\$2.94	\$35.54
05/01/94	\$30.64	\$3,06	\$3.34	\$37.04
Zone 3				
05/01/92	\$28.14	\$2.81	\$2,74	\$33.69
05/01/93	\$29.14	\$2.91	\$2.94	\$34.99
05/01/94	\$30.14	\$3,01	\$3,34	\$36.49
Zone 4				,
05/01/92	\$27.64	\$2,76	\$2,74	\$33.14
05/01/93	\$28.64	\$2.86	\$2.94	\$34.44
05/01/94	\$29.64	\$2.96	\$3.34	\$35.94

14:04 APPRENTICE RATES

(a) Apprentice Hourly Rates for this Agreement are based on the following charts.

	ENTICE WA Basic Rate	GE PACKAO 10% V&S.HP.	GE — MAY 1 Pension H&W Tng. Ind. Fund	, 1992 Total Pkg.
Zone 1			illu, Fullu	
Term 1	\$10.48	\$1.05	\$2.74	\$14.27
2	\$13.57	\$1,36	\$2.74	\$17.67
3	\$16.66	\$1.67	\$2.74	\$21.07
4 5	\$19.80	\$1.98	\$2.74	\$24,52
5	\$22.91	\$2.29	\$2.74	\$27,94
Zone 2				
Term 1	\$10,28	\$1,03	\$2.74	\$14.05
2	\$13.31	\$1.33	\$2,74	\$17.38
3	\$16.36	\$1.64	\$2,74	\$20.74
4	\$19,45	\$1,94	\$2,74	\$24.13
4 5	\$22.51	\$2,25	\$2.74	\$27.50
Zone3	**	,	• • • • • • • • • • • • • • • • • • • •	
Term 1	\$10.08	\$1.01	\$2,74	\$13,83
2	\$13.05	\$1.31	\$2.74	\$17.10
3	\$16.06	\$1.61	\$2.74	\$20,41
	\$19.08	\$1.91	\$2.74	\$23.73
4 5	\$22.11	\$2.21	\$2.74	\$27.06

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12.92\$	\$3.34	\$5.11	\$21.06	Þ
\$25,79	45.5\$	LL'1\$	89.71\$	ε
\$19.15	45.5\$	£4,[\$	\$14.35	Z
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08.81	\$Z.74	82.1\$	\$12.78	Z
13.61	\$5°.7¢	66′\$	88.6 \$	Term 1
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4	\$20.34	\$2.03	\$3.34	\$25.72
5	\$23.62	\$2.36	\$3.34	\$29.37
Zone 4				
Term 1	\$10.41	\$1.04	\$3.34	\$14.79
2	\$13.55	\$1.36	\$3.34	\$18.25
3	\$16.78	\$ 1.68	\$3.34	\$21.80
4	\$20.00	\$2.00	\$3.34	\$25.34
5	\$23.22	\$2.32	\$3.34	\$28.88

- (b) If during the term of this Agreement the Apprenticeship and Tradesmen's Qualification Act is amended, the Apprentice rates listed will be amended accordingly. No employed Apprentice will receive a reduction in his basic hourly wage.
- (c) Advancement in Apprentice Rates will be by Referral Slip from the Union office only. A Referral Slip will be issued when the Apprentice has met his responsibilities as outlined in the J.T.A.C. Standards section 9 (b) and 10 (f) and the J.T.A.C. office has verified the Apprentice's records with the Employer.
- (d) Apprentices upon completion of their Apprenticeship will advance to the Journeyman basic rate.

14:05 MAINTENANCE MECHANIC WAGE PACKAGE

	ALL ZONES			
	Basic	10%	Pension	Total
	Rate	V&S.HP.	H&W Tng. Ind, Fund	Pkg.
May 1, 1992				
JrMM ´	\$10.48	\$1.05	\$2.74	\$14.27
MM	\$13.57	\$1.36	\$2.74	\$17.67
May 1, 1993				
JrMM ´	\$10.83	\$1.08	\$2.94	\$14.85
MM	\$14.03	\$1.40	\$2.94	\$18.37
May 1, 1994				
JrMM ´	\$11.01	\$1.10	\$3.34	\$15.45
MM	\$14.35	\$1.43	\$3.34	\$19.12

14:06 STUDENTS – Basic rate will be the same as laid down for a first term Apprentice including Vacation Pay and contributions to the Benefit Plan.

14:07 JOURNEYMAN FOREMAN - The basic hourly rate of a Journeyman Foreman shall be the basic Journeyman's rate plus 10%.

14:08 PAY DAY – The "normal work week" shall consist of five 8 hour days. Pay Day shall be once a week. If the pay is to he a cheque, it will be given to the employee before the end of his shift on Thursday or deposited in his Branch of a Chartered Bank or Trust Company by Friday. If by cash, before the end of his shift on Friday.

If pay cheques are mailed to the employee's residence they must be mailed in sufficient time to arrive by Thursday afternoon σ the appropriate week.

14:09 TIME SHEETS – Pay will be made for hours claimed on time sheets. Time sheets must be signed by an authorized representative of the customer as far as possible. No alteration of the time sheets or the hours contained therein will he made by the Employer or his representative.

Article 15: VACATION PAY AND STATUTORY HOLIDAY PAY

15:01 Vacation and Statutory Holiday Pay shall be paid at the rate of 10% of basic earnings for all categories of employees during the term of this Agreement. 5% shall be regarded as Vacation Pay and 5% shall be regarded as Statutory Holiday Pay.

15:02 Vacation and Statutory Holiday Pay will be paid every month to the "Vacation and Statutory Holiday Pay Trust Fund" as administered by trustees elected by Local 787.

It will be seldom that the end of the month will coincide with an Employer's pay week, therefore the Vacation and Statutory Holiday Pay must be calculated to the end of the first pay period of the following month.

15:03 Vacation and Statutory Holiday Pay shall be recorded weekly. Income Tax on Vacation and Statutory Holiday Pay will be calculated and paid out of the employee's hourly rate weekly. Pay cheque stubs will show the actual amount of Vacation and Statutory Holiday Pay.

15.04 Vacation periods will occur preferably between May and September. A schedule is to be posted on each Employer's notice board before the month of May.

15:05 Vacation periods will be allocated by seniority and shall begin and end at the shop.

15:06 It is the intent of this Agreement that the employee shall be permitted to take three (3) weeks vacation annually, two (2) weeks during the recognized period as per 15:04. If it is impractical to permit holidays during the recognized period owing to the pressure of work, then an alternative period shall be mutually agreed upon.

Article 16: JOINT TRAINING AND APPRENTICESHIP COMMITTEE

16:01 To assure the Industry of an adequate supply of properly trained and skilled Journeymen, Apprentice and Journeyman training shall be under the jurisdiction of the Joint Training and Apprenticeship Committee, composed of four (4) representatives from the Union and four (4) representatives from O.R.A.C.

16:02 The Committee will administer the Training Fund in accordance with the terms and conditions of the "Refrigeration Worker"s Local 787 - O.R.A.C. Training Trust Fund Agreement".

16:03 All prospective Apprentices must be approved by the Joint Training and Apprenticeship Committee before being employed.

16:04 To enable this Committee to fulfill its obligations as related above, the Association and the Union shall allocate to it the necessary sum of money as outlined in Article 17:01.

Article 17: REFRIGERATIONWORKER'S LOCAL 787 – O.R.A.C. TRAINING TRUST FUND

17.01 Effective May 1, 1992 each Employer bound by this Agreement shall contribute to the "Refrigeration Worker's Local 787 - O.R.A.C. Training Trust Fund" monthly, \$0.15 (cents) for each hour earned by each employee. Effective May 1, 1993 this contribution increases by \$0.10 (cents) to \$0.25 (cents).

Article 18: INDUSTRY FUND

18:01 Each Employer bound by this Agreement shall contribute to the Industry Fund monthly, the sum of \$0.04 (cents) for each hour earned by each of his employees. Such amounts on receipt shall be immediately paid to O.R.A.C. as each Employer's contribution for the general purposes of O.R.A.C. Should O.R.A.C. require an increase during the term of this Agreement, such increase shall be determined by the Board of Directors of O.R.A.C.

18:02 The Industry Fund shall be administered by the Board of Directors of O.R.A.C.

18:03 Contributions as specified in 18:01 will be made as outlined in Article 21:00.

Article 19: WELFARE AND PENSION TRUST FUND

19:01 Effective May 1, 1992 each Employer bound by this Agreement shall contribute to the "Local 787 Welfare Trust Fund" on behalf of each employee in his employ the sum of \$0.95 (cents) for each hour earned to be administered by Trustees elected by Local 787. Effective May 1, 1994, this contribution increases by \$0.10 (cents) to \$1.05.

19:02 Effective May 1, 1992 each Employer bound by this Agreement shall contribute to the "Local 787 Pension Trust Fund" on behalf of each employee in his employ the sum of \$1.60 for each hour earned to be administered by Trustees elected by Local 787. Effective May 1, 1993 this contribution increases by \$0.10 (cents) to \$1.70. Effective May 1, 1994 the \$1.70 contribution increases by \$0.30 (cents) to \$2.00.

19:03 Notwithstanding the provision of section 5a (9) and (10) of the Workers Compensation Act amendment of 1989, each Employer throughout the first year after a work related injury to a worker shall make contributions on behalf of the injured worker to the U.A. Local 787 Benefit Plan for Health and Welfare Benefits and Pension Benefits at the amounts specified in articles 19:01 and 19:02 respectively based on the work week as outlined in article 11:01 of the Collective Agreement when the worker is absent from work because of a work related injury.

19:04 Contributions as specified in Articles 19:01, 19:02 and 19:03 will be made as outlined in Article 21:00.

Article 20: UNION DUES CHECK-OFF AND R.R.S.P. DEDUCTIONS

20:01 The Employer shall deduct from the employees wages in the first pay of the month (or after returning to work if the employee is absent the first pay of the month) a sum equivalent to one month's dues which is calculated on twice (2x) the employee's basic hourly rate that he/she is being paid prior to the vacation pay calculation.

The Employer shall also deduct "Union Field Dues" from each employees weekly wages the amount of \$0.10/hour for all hours earned.

20:02 Each Employer shall deduct from each employee's weekly pay cheque voluntary R.R.S.P. deductions as requested by the employee by written authorization.

The hourly deduction will be made from the employee's pretax earnings.

20:03 Deductions as specified in Articles 20:01 and 20:02 will be made as outlined in Article 21:00.

Article 21: MONTHLY REPORTS OF CONTRIBUTIONS AND DEDUCTIONS

21:01 Each month's submission of employer contributions and deductions as outlined in Articles 15, 17, 18, 19 and 20, must be made on the forms supplied by the Administrator. The same basic information is required for the J.T.A.C., Industry Fund, Welfare Trust Fund, Pension Trust Fund, Vacation and Statutory Holiday Pay Trust Fund, Union Dues Check-Off and R.R.S.P. Deductions. All such funds and deductions will be combined for payment and report purposes. Contributions and deductions shall be reported and paid for each employee.

The earnings of each of each employee (basic rate x hours earned) must be reported in the appropriate spaces, totalled and the 10% multiplier applied to the total basic earnings of all employees as required in Article 15.

Effective May 1, 1992 a combined contribution rate of \$2.74 will be applied to the hours earned by each employee as required in Articles 17, 18, 19:01 and 19:02. Effective May 1, 1993 the combined contribution rate will increase to \$2.94 and effective May 1, 1994 the combined contribution rate will increase to \$3.34.

Union dues deductions and R.R.S.P. deductions of each employee as outlined in Article $20\,\mathrm{must}$ be reported in the appropriate spaces.

21:02 The Employer monthly report forms, together with a cheque for the full amount and made payable to the U.A. Local 787 Benefit Plan shall be sent to:

U.A. Local 787 Benefit Plan 419 Deerhurst Drive Brampton, Ontario L6T 5K3

- 21:03 The report forms and cheque must reach the Administrator on or before the 15th of the month following the month for which deductions and contributions are being made.
- 21:04 If an Employer does not remit reports and contributions in accordance with Article 21:03, he shall be considered to be in

default and shall forthwith pay to the appropriate fund or the Union as liquidated damages and not as a penalty an amount equal to the greater of \$250.00 or 12% per annum calculated and compounded monthly on all amounts outstanding.

Consideration for interruptions in postal delivery will be giver provided the Employer contacts the Administrator prior to the deadline as outlined in Article 21:03.

In the event that any proceedings are instituted to force ε compliance with Article 21, the defaulting Employer shall be required to pay an additional \$250.00 to cover legal and/or administration costs.

The Administrator shall contact the defaulting Employer prior to applying this article.

21:05 If payment has not been received within 30 days after receiving written notice from the Administrator, the Union ma) withdraw its men from that Employer only. This action will not be considered an illegal strike.

Article 22: OWNER OPERATOR

22:01 It is agreed that owner-operators, as independen contractors or otherwise, are employees for the purpose of this Agreement and shall be covered by the same as hereinafter se forth:

- (a) As a condition of any owner-operator performing any work covered by this Agreement, it is agreed that:
 - (i) He shall be a member of the Union in good standing.
- (ii) He shall assign, let or sub-let any work covered by this Agreement subject to the terms thereof;
- (iii) Contributions to the Refrigeration Worker's Local 787 O.R.A.C. Training Fund, Welfare Trust Fund, Pension Trust Fund and Industry Fund, shall be paid and remitted or deducted and remitted, as the case may be, by or on behalf of such owner operators as and when required by this Agreement and Schedule: thereto.

Article 23: COFFEE BREAK

23:01 The Employer, shall permit a "coffee break period" of 15 minutes duration in each half *of* a shift, whether during a norma day or on shift work.

Article 24: PICKET LINES

24:01 Employees may honour a picket line established by an) Trade Union or its members in support of a lawful strike at a project where an Employer is engaged. Such action shall no

constitute an unlawful strike within the provisions of this Agreement and the Employer shall not institute or commence any applications. actions or proceedings of any nature whatsoever under the Ontario Labour Relations Act, this Collective Agreement or otherwise against the Union or any of its officers, officials, servants, Employers, agents or members in connection with any such action.

Article 25: HIRING, LAY-OFF AND TERMINATION

25:01 It shall be the responsibility of the Employer or his hiring agent to verify that Journeymen are in possession of an Ontario Certificate of Qualification, and that a registered Apprentice make the necessary arrangement to have his indenture papers transferred to the J.T.A.C.

Non registered workers beginning their Apprenticeship will be registered as early as possible.

25:02 Prior to hiring, a new employee shall be presented with a copy of the "Company Policy", with which he will be expected to conform if hired (As per Article 8:02).

25:03 Prior to the new employee starting work, the Employer must receive a Work Referral Slip as issued by the Union, showing that the employee is a member of the Union in good standing and the month to which his dues are paid. The employee will sign a Dues Deduction Authorization form which will permit the Employer to deduct dues from wages and remit the same on the monthly report form.

25:04 Should it become necessary **to** reduce the work force, the employer shall lay **cff** due to a lack of work. For the purpose of lay off, no notice is required. However if an employee is **not** recalled within 13 weeks the employee shall be deemed to be terminated and subject to the termination pay in lieu of notice provisions of Article 25:05.

This temporary lay off period may be increased to 35 weeks provided the employer continues to make Health and Welfare and Pension Contributions on behalf of the employee based upon the work week as outlined in Article 11:01.

25:05 No Employer shall terminate the employment of an employee who has been employed for three months or more unless the Employer gives,

- (1) one weeks notice in writing to the employee if his or her period of employment is less than one year;
- (2) two weeks notice in writing to the employee if his or her period of employment is one year or more but less than three years;
- (3) three weeks notice in writing to the employee if his or her period of employment is three years or more but less than four years;

- (4) four weeks notice in writing to the employee if his or her period of employment is four years or more but less than five years;
- (5) five weeks notice in writing to the employee if his or her period of employment is five years or more but less than six years;
- (6) six weeks notice in writing to be employee if his or her period of employment is six years or more but less than seven years;
- (7) seven weeks notice in writing to the employee if his or her period of employment is seven years or more but less than eight years;
- (8) eight weeks notice in writing to the employee if his or her period of employment is eight years or more.
- (b) The Employer also agrees that during this notice period, the employee will not receive any less than his regular weeks wages, vacation pay and benefits for each week of notice. "Week" as defined in Article 11:01.
- (c) In the event the Employer does not give an employee written notice, he shall pay the employee his regular wages, vacation pay and benefits for the period of notice the employee is entitled to.
- (d) In circumstances where an employees is unable to return all the Employer's property to the employer's place of business prior to end of his regular scheduled shift, the employee shall be paid his regular wages, vacation pay and benefits up to a maximum of four hours.
- (e) If an employee is terminated for just cause the Employer is not required to give notice, but the employee is entitled to the conditions outlined in 25:05 (d).
- (f) If an employee wishes to terminate his employment with the Employer he shall give a minimum of two weeks written notice.

The Employer shall continue to employ him as outlined in article 25:05 (b) or pay him in lieu of notice.

- (g) On termination the employee shall receive all monies owed to him on his next pay period or be sent to employee's last known home address.
- (h) If the conditions as set out in 25:05 (a) through (g) are not complied with it shall be termed grounds for a grievance and referred to the Ontario Labour Relations Board under Section 126 of the Ontario Labour Relations Act as per Article 27:03.

Article 26: TOOLS AND UNIFORMS

26:01 The Employer shall supply:

all pipe wrenches, vices, taps and dies

all electric tools

all electric measuring instruments

all machinist measuring instruments

all air and gas measuring devices

all gas containers

all welding equipment, including wearing apparel and safety acce: ories

specialty tools

vacuum pumps

power tools

wrenches over 1"

26:02 Each Journeyman, and Apprentice after completion of his irst year, shall have and maintain a complete set of hand tools necessary to install air conditioning and/or refrigeration equipment. Employees will not supply tools listed in 26:01.

26:03 The employee will supply to the Employer at the time of imployment a list of personal tools as mentioned in Article 26:02. t will be the responsibility of the employee to keep the list up to late for the purpose of replacement as outlined in Article 26:09.

26:04 Those tools supplied by the Employer will be maintained y the Employer. If these tools are lost or damaged, through the egligence of the Employer or other employees, then the Employer s responsible for the repair or replacing same.

26:05 Those tools supplied by the employee will be maintained y the employee. If these tools are lost or damaged through the egligence of the Employer or other employees, then the Employer s responsible for repair or replacing same.

26:06 The Employer agrees to supply non durable items used on imployers work, i.e. files, cutter wheels, reactor plates, gauges, oses, drill bits, thermometers, etc.

26:07 Uniforms will be supplied by the Employer at no cost to ie employee and the employee must wear the uniform.

The following list is the minimum requirement of an Employer

applied uniform: 6 Shirts

3 Pants

1 Jacket (service)

I Parka or Bomber Jacket

This is not to be construed to designate a maximum quantity.

26:08 Safety boots will be supplied by the Employer at no cost to te employee, up to a maximum amount of \$95.00.

26:09 If an employee's tools are lost due to fire, flood, or forcible entry of job box, job shack, or vehicle, etc., management must be notified immediately. Listed personal tools as required in Article 26.03 (to a maximum value of \$1,500.00) will be replaced immediately by the Employer. In the event of theft by forcible entry, the police and management must be notified immediately.

Article 27: GRIEVANCE PROCEDURE

27:01 Any employee who feels that he has been unjustly dismissed, unjustly laid off, unjustly suspended or unjustly dealt with in violation of this Agreement must inform the Employer and the Union in writing within 5 working days of the violation and the matter will be dealt with from then on as a grievance.

27:02 Should a dispute arise between an Employer and the Union relating to the interpretation, application, or administration of this Agreement, including any question as to whether a matter is arbitrable or where any allegation is made that this Agreement has been violated or should any local trouble of any kind arise, there shall be no suspension of work on account of such dispute, but are earnest effort shall be made by both parties hereto to settle without delay any such dispute in respect of which the following grievance procedure is set up.

First: The employee concerned may either alone O1 accompanied by the Steward of his department take the matter directly to his Foreman.

Second: If a settlement is not reached within a reasonable time the Steward may either alone or accompanied by a member of the Committee take the matter to the Department Manager.

Third: If a settlement is not reached with the Department Manager within a reasonable time, the matter may be discussed between the Steward, accompanied if so desired by a representative of the Union, and the Employer.

27:03 Grievances regarding delinquency of wages, fringes, pension and welfare will be referred to Section 126 of the Ontario Labou Relations Act

Article 28: ARBITRATION

28:01 Both parties to this Agreement agree that a grievance concerning the interpretation, application, administration of alleged violation of this Agreement and including any question as to whether the matter is arbitrable which has been properly carried through all the steps of the Grievance Procedure outlined in Article

!7 above and **which** has not been settled will be referred to a Board of Arbitration at the written request of either of the parties hereto.

28:02 The Board of Arbitration shall consist of a single Arbitrator who shall be selected by mutual agreement between the Lompany and/or O.R.A.C. and the Union within fourteen (14) alendar days from the receipt of the notice of intent to arbitrate. In the event of failure to agree, the parties shall submit a joint request to the Ministry of Labour of the Province of Ontario to appoint an Arbitrator.

28:03 The decision of the Arbitrator will be final and binding on oth parties.

28:04 The Arbitrator shall not have any power to alter or change ny of the provisions of this Agreement or to substitute any new rovisions for any existing provisions, nor to give any decision neonsistent with the terms and provisions of this Agreement.

 $28 \raisebox{-0.1ex}{:}\!05$ The expense of the Arbitrator shall be borne equally by the varties.

Article 29: JURISDICTIONAL DISPUTE

Jurisdictional disputes with other trades which cannot be esolved at a Local level will be referred to the National Joint loard.

Article 30: STRIKE OR LOCK-OUT

30:01 There shall be no strike or lock-out during the term of this agreement. Neither the Union nor any of the employees covered y this Agreement will collectively, concertedly or individually aduce, engage or participate, directly or indirectly, in any strike, icketing, slowdown, stoppage or other curtailment or interference with the Employer's operation, or interference with the flow of naterials or persons in or out of places where the Employer is oing business. The Union agrees to exert every effort through its ocal Officers and Representatives to end any unauthorized iterruptions of work.

The Employer will not lockout any of the employees covered by its Agreement. The parties agree that, in the manner set forth in articles 27 and 28, they will submit to arbitration all grievances nd disputes that may arise between them and any its understanding as to the meaning or intent of all or any part of its Agreement; provided however, the Employer shall not be equired to resort to the grievance and arbitration procedures prior I resorting to other remedies in the event of violation of this article.

30:02 In the event notice of modification of this Agreement is given by either party in accordance with Article 31 and agreemen is not reached on the terms of a new Agreement, both parties agree to continue work under the terms of this Agreement on a day-to day basis until such time that either a new Agreement has beer reached or the matter has been settled by Arbitration.

30:03 After one party serves upon the other notice of desire to bargain for a new Collective Agreement, and in the event that the issues remaining in dispute cannot be settled through the negotiation process, the parties shall execute an irrevocable agreement to refer all matters remaining in dispute between them to a Board of Arbitration for final and binding determination in accordance with Section 38(1) of the Labour Relations Act, Where either party elects to refer the remaining issues in dispute to arbitration, each of the parties shall appoint a nominee of the Board of Arbitration. The two members appointed by the parties shal appoint a third member who shall act as Chairperson. Where the two members fail to agree upon a third member, either party may request the Office of Arbitration to appoint a Chairperson. The Board shall hear the issues in dispute and shall render a decision which will be final and binding upon the parties and upon any employee or Employer affected by it. The decision of the majority shall be the decision of the Board, but if there is no majority, the decision of the Chairperson shall govern. Each party shall be responsible for the fees and expenses of the nominee appointed by it and shall be jointly responsible for the fees and expenses of the Chairperson.

Article 31: DURATION OF AGREEMENT

31:01 This Agreement shall remain in force until April 30, 1995 and shall remain in force from year to year thereafter unless either party to this Agreement gives notice in writing to the other party within a period which shall not be more than 120 days or less than 90 days prior to the expiration of each term, of its intention to terminate this Agreement a seek amendments to same.

31:02 It is agreed that every effort will be made, by both parties to this Agreement, to conclude negotiations for a new Agreement befor this Agreement expires. Should a new Agreement not be forthcomin prior to the termination date, work will continue under paragrap 30:02 and employees shall be entitled to retroactive pay for up to 3 calendar days.

31:03 Settlement of the wage package which includes Basic Rate Vacation Pay, Health and Welfare and Pension shall be the Journeymen's average wage package adjustment negotiated by the Plumbers/Pipefitters, Electricians and Sheet Metal Workers in I.C.;

Sector for Toronto and will be applied to the four zones in this Collective Agreement

31:04 In respect to this Agreement, the signatory parties agree that at least once a year no later than ninety (90) days prior to the Anniversary Date the Union and ORAC will convene a meeting for the purpose of appraising the effectiveness of this Agreement.

If any article or provision or this Agreement shall be declared ineffective or undesirable, by mutual consent, the Union and ORAC will suspend, substitute, delete or amend any such article or provision of this Agreement to maintain the effectiveness and intent of this Agreement.

31:05 Notices: All notices required to be sent to the Union pursuant to this Agreement shall be effectively given when mailed to:

U.A. Local 787 419 Deerhurst Drive Brampton, Ontario L6T 5K3

All notices required to be sent to the Employer pursuant to this Agreement shall **be** effectively given when mailed to:

The Ontario Refrigeration & Air Conditioning Contractors Association 1400 Bayly Street Office Mall 11, Unit 7A Pickering, Ontario L1W 3R2

Article 32: SAVINGS CLAUSE

32:01 This Agreement will be no less favourable to O.R.A.C. Employers per Appendix "D" than any other Agreement signed by Local 787 with any other Employer or Association.

32:02 If any article or provision of this Agreement shall be leclared invalid, inoperative, or unenforcable by any competent authority of the executive, legislative, judicial or administrative branch of the Federal or any Provincial Government, the Employer and the Union shall suspend the operation of such article or provision during the period of its invalidity and shall substitute, by nutual consent, in its place an article or provision which will meet he objections to its invalidity, and which will be in accord with the ntent and purpose of the article or provision in question.

32:03 In witness to this Collective Agreement the members of th Negotiating Committee of both parties have hereby signed their name giving effect to this Agreement as of May 14, 1992.

Ontario Refrigeration & Air Conditioning Contractors Association Maw Lindgren (Chairman)

Vern Barney

Dave Honsberger

Dave Underwood

Bruce Wilson (Alternate)

United Association of Journeymen and Apprentices of th Plumbers and Pipe Fitting Industry of the United States an Canada, Local 787 Joe Carricato (Chairman)

Al Butterfield Tony Finelli Bob Harford

APPENDIX "A"

JURISDICTION

Work of the following types shall be deemed to come under the jurisdiction of this Agreement:

- (a) The service, repair and maintenance of all controls, all pipir and components used for primary and secondary refrigeration as cooling systems and fixtures for air conditioning systems, combination heat/cool units, heat pumps, ice making equipment, humidifying unit dehumidifying units, refrigeration units and cooling units and tl charging testing and start up of all such equipment and systems.
- (b) The service, repair and maintenance of all holes, chase channels, bolts, inserts, stands, brackets, supports, sleeves, thimble hangers, conduit and boxes, tubing raceways used in connection wi the refrigeration and air conditioning industry.
- (c) The service, repair and maintenance of all gas and arc weldin brazed, soldered, caulked, expanded and rolled joints in connectic with the refrigeration and air conditioning industry.
- (d) The service, repair and maintenance of all pipe work of eve description relating to (a) by whatever mode or method.
- (e) The service, repair and maintenance of all methods of stre; relieving of all pipe joints made by every mode or method in t) refrigeration and air conditioning industry.
- (f) The service, repair and maintenance of all tanks used in tl refrigeration and air conditioning industry.

- (g) The service, repair, maintenance, handling and using of all tools 1 equipment that may be necessary for all work and materials used the refrigeration and air conditioning industry.
- (h) The dismantling and repair for reuse of all refrigeration and air aditioning equipment which involves the recovery, reclaim and se of any refrigerants.
- (i) The service, repair and maintenance of all controls all piping for aracts, cascades (i.e. artificial water falls), make-up water fountain, stured waters, water towers, cooling towers, and spray ponds used industrial manufacturing, commercial or for any other purposes in refrigeration and air conditioning industry.
- j) Piping herein specified means pipe made from metals, tiles, glass, ber, plastic, or any other kind of material or product manufactured o pipe useable in the refrigeration and air conditioning industry ardiess of size.
- (k) The service, repair and maintenance of all equipment supplied by prefirgeration and air cinditioning industry.
- (l) The service, repair and maintenance of all controls of sectional lk-in boxes and cold storage rooms, temperature controlled display ses and cabinets used for display and storage of all items or products juiring a temperature controlled environment.
- (m) The service, repair and maintenance of all piping to stoves, fire tes, blast and heating furnaces, ovens, driers, heaters, oil burners, kers and boilers and cooking utensils, etc... of every description.

APPENDIX "B"

All routine maintenance and inspections regardless of size or ration of the mechanical equipment being inspected or maintained, here this work is done as a periodic routine service inspection and aintenance procedure by the Employer, such as:

- (a) Filter changing and maintenance thereof.
- (b) All oil and greasing.
- (c) All belt adjusting or replacement.
- (d) Cleaning of cooling towers, coils, evaporator and condenser ses and water treatment.
- (e) General housekeeping.
- (f) Delivery of parts and equipment.
- (g) In an area where a problem exists with non-union competition, assignment of Maintenance Mechanics duties in agreement with local Union Business Manager may be adjusted to meet local aditions.

- (h) Cleaning, repairing and routine maintenance of solar ener{ equipment.
- (i) Helper for Service and Maintenance Journeymen a) Apprentices, as long as the apprentices are fully employed.
- (j) All aspects of residential comfort systems in a residenti dwelling.

APPENDIX "C" DEFINITION OF ZONES

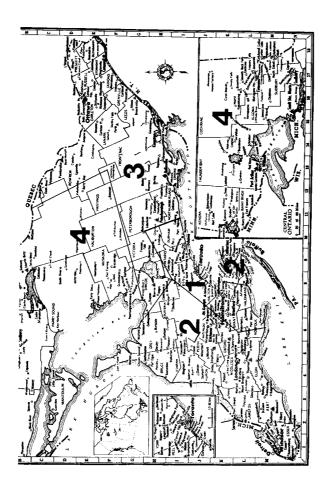
The definitions of the work zones as outlined below are determine from the lines drawn on a map of Ontario held in the Union offit together with the MASTER copy of this Collective Agreement.

Zone 1—Is that portion of Southern Ontario enclosed by (A) straight line on its south eastern boundary drawn through the easte limits of the town of Dunnville and extending to Lake Erie on the sou and Lake Ontario on the north. (B) a straight line drawn from the nor shore of Lake Erie, through the eastern limits of the town of Langtiand the centre of the town of Otterville to terminate at the souther limits of the town of Norwich. (C) a straight line drawn from t southern limits of the town of Norwich north easterly through t southern limits of the town of Newmarket to the northern limits of town of Mount Albert; then a straight line from the town of Moo Albert to the southern limits of the town of Bobcaygeon. (D) a straigline from the southern limits of the town of Bobcaygeon through t eastern limits of the town of Port Hope to the north shore of La Ontario.

Zone 2—Is shown on the **map** in two sections, (A) is all of the ar east of the straight line from Winona to Dunnville up to t International border and includes Grimsby, St. Catharines, Wellan Niagara Falls, Fort Erie, etc., (B) is all of the area in south weste Ontario west of the boundary of Zone 1 and Zone 2.

Zone 3—Is that area (A) east of a straight line drawn from the sot western limits of the town of Collingwood, through the north easte limits of the town of Newmarket, and ends where the line joins t northern boundary of Zone 1. (B) that area east of the line runni north from Lake Ontario and making the eastern boundary of Zone (C) that area south of a straight line drawn from Nottawasaga B through the northern limits of the town of Elmvale to the town of Wh located on Highway 511 (approximately 50 miles east of the centre Ottawa). (D) that area east of a straight line drawn from the town Wensley on the south through the town of Killaloe Station a terminating at the Ottawa River, where this line and the line indicat in (C) intersect will be the termination point of each of the line

Lone 4—Is that area of the Province of Ontario north of the line ming the northern boundary of Zone 3 and the line drawn as noted D) of Zone 3.



APPENDIX "D" O.R.A.C. NONI.C.I. CONSTRUCTION, SERVICE, MAINTENANCE COLLECTIVE AGREEMENT List of Employers

379064 Ontario Limited — Ram Aire 462289 Ontario Limited — Tri-Air Systems 559019 Ontario Limited — Atlantic Cooling 979797 Ontario Ltd. —C & L Industrial Refg. Ainsworth Electric Co. Limited Albern Mechanical Limited Ambient Mechanical Ltd. APV Canada Inc. Associated Mechanical Systems Inc. BIC Mechniacal Ltd. Beaver Engineering Limited Black & McDonald Limited -Toronto Black & McDonald Limited - Ottawa Blenkhorn and Sawle Limited Broom's Mech. Contracting Limited Carrier Canada Limited $Centigrade\,Air\,Conditioning\,Ltd.$ Central Refrigeration & Air Cond. Cimco Comstock Canada - Burlington Comstock Canada - Nepean Comstock Canada - Scarborough Coolbreeze Service Limited D J Diamond RefrigerationCont. Ltd. Dial One Temp Air Control Dunlis Mechanical Services Ltd. ESFox Ltd. Earlscourt Heating & Air Cond. Executive Air Conditioning Inc. H Griffiths Company Limited HECO Honeywell Limited $Isotherm\ Engineering\ Ltd.$ J L Wilson and Sons Limited

Johnson Controls Johnston & Damery Limited Landis & Gyr Powers Ltd. Leda Refrigeration Limited (1984) M A S Mechanical Ltd. Mayfair Mechanical Contractors Mechanical Aire Services Ltd. Neelands Refrigeration Limited Nelco Mechanical Limited Northern Air Environmental Tech Inc. Nortown Air Systems Ontario Electrical Construction Ltd. Pro-Tech Mechanical Services Ltd. Readair Mechanical Services ltd. Rosetown Central Refrigeration RRM Service Co. Sayers & Associates Limited Sherway Temperature Control Standard Mechanical Systems Limited Stannair Conditioning Inc. State Contractors Sutherland-Schultz Limited Techaire Systems Canada Inc. Trane Service Agency (Toronto) Trisar Limited Westaire Air Conditioning & Htg. Ltd. Wm. Roberts Electrical & Mechanical York Air Conditioning Limited

INDEPENDENT NON I.C.I. CONSTRUCTION, SERVICE, MAITENANCE **COLLECTIVE AGREEMENT List of Employers**

398362 Ontario Ltd. — O/A Etobicoke Sheet Metal **696533** Ontario Inc. — O/A Bogar-Paterson

946766 Ontario Limited —Summit Mechanical

967431 Ontario Inc. — CTM/Corp Tech Management

A & W Refrigeration & Air Cond.

A.C.T. Mechanical Contractors Ltd.

Air Con Systems

Air Force Air Cond. Systems 1989 Ltd.

Air Stream Mechanical Systems

Airco

Airco Mechanical Ltd.

Amber Air ConditioningLtd.

Ansell Mechanical Ltd.

Arch-Air Conditioning Inc.

Art Blake Refrigeration Limited

Avery Air-Cond. & Heating Service

B I TemperatureControl

Barron Refrigeration Limited

Beebe Mechanical Systems

Bering Mechanical Ltd.

Bonair Htg & A/C Ltd.

Brady & Seidner AssociatesItd.

Canadian Commandaire Inc.

Cardinal Mechanical Systems Inc.

Carmichael Engineering Ltd.

Carr Aire Ltd.

Cascade Mechanical Services Limited

Chad Air Systems

Circa Refrigeration Inc.

Clow Darling Limited

Concept Air Systems Ltd.

Consistent Cooling Inc.

Constant Temperature Control Ltd.

Cool Check Air Conditioning Limited

Demand Air Systems Ltd.

Doray's Refrigeration & Air Cond.

Douglas Refrigeration Incorporated

Drennan Refrigeration Inc.

Enera Controls

Environs Services

Francis Contracting Ltd.

G D R Mechanical Inc.

General Air Systems Inc.

Gordon Wright Electric Limited

Grant Refrigeration

Grayco Air

Graywood Electric

H.V.A.C. Consultants Inc.

Highland Refrigeration Services Ltd.

Hylton Heating and Cooling

I.C.E.A. Systems Corp.

Inter Wide Services Ltd.

J L Energy Consultants Ltd.

J R Hernborg Ltd.

J R Mechanical Systems Ltd.

J W Aubie Heating & Air Cond. Ltd.

John Baycroft Mechanical Systems

Jordan Boiler Repair Incorporated

Kendale Mechanical Ltd.

M.T.I. Ltd.

Major Air Systems Ltd.

Mapleridge Mechanical

Margell Mechanical Contractors Ltd.

Mechanical Equipment Services

Metro Mechanical Services Ltd.

Michael Mechanical Services Ltd.

Michael Mechanical Services (Toronto) Limited

Mitchell Refrigeration Ltd.

N & N Sheet Metal

North York Mechanical Ltd.

Oakwood Mechanical Systems Ltd.

Ontario Air Systems

P M A Mechanical Inc.

Pamar Mechanical Ltd.

Penn Refrigeration Limited

Philip Doyle Mechanical Inc.

Prime Air Control Inc.

Principal Heating Company Limited

R E Corner Refrigeration

R N Mechanical

Robean Air Conditioning Ltd. Robertson & Associates Mech. Cont. Rothmar ManufacturingCorporation Sarnia Commercial & Ind. RefrigerationLtd. Sartech Mechanical Services Ltd. Scott Mechanical Limited Sentry Air Systems $Shea\ Control\ Systems\ Ltd.$ Solomon Energy Systems Limited Spring Water Ice Ltd. Springbank Mechanical Systems Ltd. Stan Newmarch Mechanical Ltd. Strickland Mechanical Superior Trade Services Limited Sydenham Sales and Service Limited T & D Air Cond. Processes Inc. Techore Heating & Cooling Co. Thermal Mechanical Systems Trane Service Agency (Hamilton)
Trane Service Agency (London) Trane Service Agency (Kitchener)
Trans Air Mechanical Ltd. Transcool Inc. Xtra Mechanical Limited

Values, Formulas and Conversion Charts

A practical pocket guide for Journeymen and Apprentice Refrigeration and Air Conditioning Mechanics

> THERE IS NO SUBSTITUTE FOR U.A. SKILLED CRAFTSMEN

> > A.F.L. C.I.O.

REFRIGERANTS

VAPOR PRESSUR	F PSIG
---------------	--------

TEMP.				COLOR	CODE			
F°	Orange	White	Green	Purple	Blue	Yellow	Orchid	R-717
	11	12	22	113	114	500	502	Ammon
50 45 40 35 30	28.9 28.7 28.4 28.1 27.8	15.4 13.3 11.0 8.4 5.5	6.1 2.7 0.5 2.5 4.8	29.3	27.2 26.7 26.1 25.5 24.7	7.9 4.8 1.4	0.0 2.0 4.3 6.7 9.4	14.3 11.7 8.7 5.4 1.6
-25 -20 -15 -10 - 5	27.4 27.0 26.5 26.0 25.4 24.7	2.3 0.6 2.4 4.5 6.7 9.2	7.3 10.1 13.1 16.4 20.0 23.9	29.2 29.1 28.9 28.7 28.5 28.2	23.9 22.9 21.8 20.6 19.3 17.8	1.1 3.1 5.4 7.8 10.4 13.3	12.3 15.5 19.0 22.8 26.9 31.2	1.25 3.6 6.1 9.0 12.9 15.7
10 15 20	24.0 23.1 22.1 21.1	11.8 14.6 17.7 21.0	28.1 32.7 37.7 43.0	27.9 27.6 27.2 26.8	16.1 14.3 12.3 10.1	16.4 19.8 23.4 27.3	36.0 41.1 46.6 52.4	19.6 23.8 28.5 33.5
25	19.9	24.6	48.7	26.3	7.6	31.6	58.7	39.0
30	18.6	28.5	54.8	25.8	5.0	36.1	65.4	45.0
35	17.2	32.6	61.4	25.2	2.1	41.0	72.6	51.5
40	15.6	37.0	68.5	24.5	0.5	46.2	80.2	58.6
45	13.9	41.7	76.0	23.8	2.2	51.8	87.7	66.3
50	12.0	46.7	84.0	22.9	4.0	57.8	96.9	74.5
55	10.0	52.0	92.5	22.1	6.0	64.1	109.7	83.4
60	7.7	57.7	101.6	21.0	8.1	71.0	115.6	92.9
65	5.3	63.8	111.2	19.9	10.4	78.1	125.8	103.1
70	2.6	70.2	121.4	18.7	12.9	85.8	136.6	114.1
75	0.1	77.0	132.2	17.3	15.5	93.9	147.9	125.8
80	1.6	84.2	143.6	15.9	18.3	102.5	159.9	138.3
85	3.2	91.8	155.6	14.3	21.4	111.5	172.5	151.7
90	5.0	99.8	168.4	12.5	24.6	121.2	185.8	165.9
95	6.8	108.3	181.8	10.6	28.0	131.3	199.7	181.1
100	8.9	117.2	195.9	8.6	31.7	141.9	214.4	197.2
105	11.1	126.6	210.7	6.4	35.6	153.1	229.7	214.2
110	13.4	136.4	226.3	4.0	39.7	164.9	245.8	232.3
115	15.9	146.8	242.7	1.4	44.1	177.4	266.1	251.5
120	18.5	157.7	259.9	0.7	48.7	190.3	280.3	271.7
125 130 135 140 145 150	21.3 24.3 27.4 30.8 34.4 38.2	169.1 181.0 193.5 206.6 220.3 234.6	277.9 296.8 316.5 337.2 358.8 381.5	2.2 3.7 5.4 7.2 9.2 11.2	53.7 58.8 64.3 70.1 76.3 82.6	204.0 218.2 233.2 248.8	298.7 318.0 338.1 359.2 381.1 404.0	293.1 315.0 335.0 365.0 390.0 420.0

Bold Numerals-Inches Hg, Below 1 ATM

Temp (F°)	SUVA™ Centri-LP HCFC 123	SUVA TM Chill-LP HCFC 124	SUVA TM Freez-HP HFC 125	SUVA™ Cold-MP HFC 134a
100	29.9	29.2	24.4	27.8
-90	29.8	28.8	21.7	26.9
-80	29.7	28.2	18.1	25.6
-70	29.6	27.4	13.3	23.8
60	29.5	26.3	7.1	21.5
-50	29.2	24.8	0.3	18.5
-40	28.9	22.8	4.9	14.7
-30	28.5	20.2	10.6	9.8
-20	27.8	16.9	17 4	3.8
-10	27.0	12.7	25 6	1.8
0	26.0	7.6	35 1	6.3
10	24,7	1.4	463	11.6
20	23.0	3.0	59.2	18.(
30	20.8	7.5	74.1	25.(
40	18.2	12.7	91 2	34.5
50	15.0	18.8	110.6	44.9
60	11.2	25.9	132.8	56.9
70	6.6	34.1	157.8	70.7
80	1.1	43.5	186.0	86.4
90	2.6	54.1	217.5	104.2
100	6.3	66.2	252.7	124.3
110	10.5	79.7	291.6	146.8
120	15.4	94.9	334.3	171.9
130	21.0	111.7	380.3	199.8
140	27.3	130.4	430.2	230.5
150	34.5	151.0	482.1	264.4
160	42.5	173.6		301.5
170	51.5	198.4		342.0
180	61.4	225.6		385.9
190	72.5	255.1		433.6
200	84.7	287.3		485.0
210 220 230 240 250	98.1 112.8 128.9 146.3 165.3	322.1 359.9 400.6 444.5 491.8		540.3
260 270 280 290 300	185.8 207.9 231.8 257.5 285.0		wa as inchesof MPCU/	

"Vapor pressures are shown as PSIG Bold figures are shown as inches of mecury vacuum

Chemical Names and Formulas for SUVA Refrigerants

			3
Registered Trademark	Chemical Name	Formula	Boiling Point °F
SUVA Centri-LP HCFC 123	Ethane. 2,2-Dichloro, 1,1,1, Trifluoro	CHCl₂CF₃	82.2
SUVA Chill-LP HCFC 124	Ethane. 2, Chloro-1,1,1 2-Tetrafluoro	CHCIFCF ₃	12.2
SUVA <i>Freez-HP</i> HFC 125	Ethane, Pentafluoro	CHF₂CF ₃	-55.3
SUVA Cold-MP HFC 134a	Etyhane, 1,1,1,2- Tetrafluoro	CH₂FCF ₃	-15.7

REFRIGERANT LINE CAPACITIES IN TONS

Copper Tube			Li	ne Size O	.D.		
Type L		1/2	5/8	7/8	1-1/8	1-3/8	
	Liquid Line	2.03	4.00	10.5	21.8	37.8	
R-12	Dischg. Line	.47	.88	2.30	4.67	8.02	
40°F Evap.	Suct'n Line*	.30	.56	1.46	2.98	5.24	
	Liquid Line	3.5	6.4	17.0	34.4	60.0	
R-22	Dischg. Line	.86	1.63	4.32	8.64	15.1	
40°F Evap.	Suct'n Line*	.59	1.10	2.89	5.82	9.96	
	Liquid Line	2.19	4.17	11.0	23.3	40.6	
R-502	Dischg. Line	.68	1.29	3.50	7.10	12.7	
40°F Evap.	Suct'n Line*	.48	.90	2.52	5.03	9.00	
Ir	on Pipe	3/8	1/2	3/4	1	1-1/4	
	Liquid Line	11.6	23.5	53.2	105.0	225.0	
R-717	Dischg, Line		3.43	7.55	15.0	39.2	
0°F Evap.	Suction Line	_	_	_	3.46	8.90	
Cop	pper Tube		Line Size O.D.				
T	Type L	1-5/8	2-1/8	2-5/8	3-1/8	3-5/8	
	Liquid Line	60.4	125.0	223.0	355.0	533.0	
R-12	Dischg, Line	13.0	26.5	46.7	75.3	110.0	
40°F Evap.	Suct'n Line'	8.20	17.0	30.0	48.0	71.1	
	Liquid Line	95.0	200.0	354.0	572.0	860.0	
R-22	Dischg. Line	23.6	49.8	87.0	136.0	203.0	
40°F Evap.	Suct'n Line*	15.95	33.2	58.1	93.1	139.5	
	Liquid Line	65.5	139.0	250.0	406.0	625.0	
R-502	Dischg. Line	20.0	42.6	76.5	127.0	186.0	
40°F Evap.	Suct'n Line*	14.4	30.2	54.7	89.6	133.0	
Iron Pipe		1-1/2	2	2-1/2	3	4	
	Liquid Line	351.0	805.0	1280.0	2270.0	4630.0	
R-717	Dischg. Line	58.0	113.0	180.0	316.0	640.0	
K-/1/							

Capacities indicated are based on a pressure drop equal to $2\,^{\circ}F$ loss per $100\,\mathrm{ft}$, equivaler line length. All other capacities are based on a $1\,^{\circ}F$ loss.

Measuring Operating Superheat

- Determine suction pressure with accurate gauge at evaporator outlet. On closs coupled installations, suction pressure may be read at compressor suction connection.

 From refrigerant pressure-temperature tables, determine saturation temperature a observed suction pressure.

 Messure temperature of suction gas at Thermo Valve remote bulb location.

 Subtract saturation temperature read from tables in step No. 2 from temperature measured in step No. 3. Difference is superheat of suction gas.

Heating Values of Various Fuels

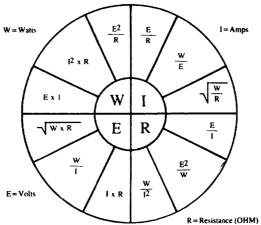
Heating Values Of Various Puels

Coal=25 million Btu per ton (average)

I ton coal=2 cords wood (approximately)
Oil (domestic grades)=136,000 to 140,000 Btu per gallon.
Gas (manufactured)=500 to 550 Btu per cubic foot
Gas (natural)=1000 to 1100 Btu per cubic foot
Gas (propane)=2509 Btu per cubic foot=21,500 Btu per pound=91,160 Btu per gallo
Gas (butane)=3200 Btu per cubic foot=21,300 Btu per pound=100,000 Btu per gallo
I pound Steam at 15 psig=1164 Btu

MISCELLANEOUS ELECTRICAL FORMULAS

OHM's law Made Easy



Power - A.C. Circuits:

Power Factor= Watts
Volts x Amperes

Three Phase Kilowatts= Volts x Amperes x Power Factor x 1.732

1000

Three Phase Volt-Amperes= Volts x Amperes x 1.732

746 x Horsepower Three Phase Amperes=

1.732 x Volts x Efficiency x Power Factor

Volts x Amperes x Power Factor Single Phase Kilowatts=

1000

746 x Horsepower

Volts x Efficiency x Power Factor Single Phase Amperes=

Power - D.C. Circuits:

Watts = Volts x Amperes

Watts Amperes=

Horsepower= Volts x Amperes x Efficiency 746

Motor Application Formulas:

For Pumps:

Horsepower= GPM x Head in Feet x Specific Gravity

3960 x Efficiency of pump

For Fans and Blowers:

Horsepower= CFM x Pressure (in H20)

6350 x Efficiency

Pumping Brake Horsepower= GPM x Head (Feet)

3960 x Efficiency (60-75%)

Synchronous RPM = Hertz x 120
Poles

 $\begin{array}{ccc} \text{Percent Slip=} & \frac{\text{Synchronous RPM - Full Load RPM}}{\text{Synchronous RPM}} & \textbf{x 100} \end{array}$

Fan Law 1:

New CMF = $\frac{\text{New RPM x Existing CFM}}{\text{Existing RPM}}$

or

New RPM = $\frac{\text{New CFM x Existing RPM}}{\text{Existing CFM}}$

Fan Law 2:

New Static Pressure= $\frac{\text{New RPM}}{\text{Existing RPM}}$ 2 $_{\text{X}}$ Existing Static Pressure

Fan Law 3:

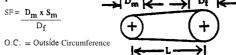
New HP = New RPM 3 x Existing HP
Existing RPM

New Pulley Diameter= Existing Pulley Diameter x New Speed Existing Speed

V-Belt Size:

O.C. =
$$(D_m + D_f) 1.57 + 2L$$

Pulley Speeds:



 $s_m = RPM \text{ of Motor}$

 $S_f = RPM \text{ of Fan}$

L = Length Dimension Between Centers

 D_{m} = Diameter of Motor Pulley

 D_f = Diameter of Fan Pulley

ran	

Volume $(Ft^3) \div 60 = CFM$ (Equivalent to one air change per hour)
Number of Air Changes x CFM Per Air Change x 1.08 x T.D. (Temperature Difference) $=$ Btuh
$GPM = \frac{BTU/hr}{500} \times T (^{\circ}F)$
Cooling Tower GPM (compression)= $\frac{\text{Tons } \times 30}{\Box \text{T } (^{\circ}\text{F})}$
Cooling Tower GPM (absorption) = $\frac{\text{Tons x 62}}{\prod_{\text{T (°F)}}}$
Chiller GPM = Tons x 24 T (°F)
Hot Water Usage Gallons/Month x 8.33 x T (°F)
KWh/Month = 3413
nsible Heat, BTU/HR = CFM x 1.08 x \square T (°F)
tent Heat, BTU/HR = CFM $\times 0.68 \text{ x}$ g (grains)
tal Heat. BTU/HR = CFM x 4.5 x \square h (enthalpy)

USEFUL CONFERSION FACTORS

To Convert	То	Multiply By
Feet of water Feet of water Gallons of water Gallons of No. 2 oil Horsepower Horsepower (boiler) Horsepower (boiler) Inches of Mercury Inches of Mercury Kilowatts Kilowatts Kilowatts Kilowatts Founds of water Pounds of water Pounds/sq. inch Therms of Gas Tons (refrigeration) Watts Watt-hours	Inches of Mercury Pounds/sq. inch Pounds of water BTU's Kilowatts Btu/Hr. Btu/Hr. Kilowatts Feet of water Pounds/sq. inch Btu/Hr. Watts Btu Cubic feet Gallons Feet of water BTU's Btu/Hr. Btu/Hr. Btu/Hr. Btu/Hr. Btu/Hr.	0.8826 0.4335 8.3452 140,000 0.7457 2545 33479 9.803 1.133 0.4912 3413 1000 3413 0.01602 0.1198 2.307 100,000 12,000 3.413 3.413

VACUUM CONVERSION CHART

	Gauge Psig.	Absolute Psia.	mm of Mercury	Microns	Boiling Tel of Water '
	250	264.7			
	200	214.7			
	100	114.7			
_	- 0 —	— 14.696 —		- 760,000 -	212 -
1	10.24	9.629	500	500,000	192
	22.05	3.865	200	200,000	151
ı	25.98	1.935	100	100,000	124
~	27.95	0.968	50	50,000	101
Inches Mercury below one atmosphere (gauge	28.94	0.481	25	25,000	78
≻ ક દેજી	29.53	0.192	10	10,000	52
音量	29.72	0.099	5	5,000	35
₩ £	29,842	0.039	2	2,000	15
Inches Mercury below one atmosphere (gauge)	29.882	0.019	1.00	1,000	+ * €
\$ 5	29.901	0.010	0.50	500	-11
1	29.917	0.002	0.10	100	-38
	29.919	0.001	0.05	50	-50
.l.	29.9206	0.0002	0.01	10	-70
<u> </u>	-29.921	0	0	0	

^{*}Recommended Field Evacuation Conditions