

# THE WORKERS' COMPENSATION RATING AND INSPECTION BUREAU OF MASSACHUSETTS

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January 3, 1990

CIRCULAR LETTER NO. 1518

To All Members and Subscribers of the Bureau:

All Risk Adjustment Program (ARAP) - Experience Rating Plan

The Division of Insurance has approved an All Risk Adjustment Program (ARAP) which will surcharge experience rated risks, voluntary and assigned risk, with a record of losses greater than expected under the Experience Rating Plan, to become effective 12:01 A.M., January 1, 1990, on new and renewal business only.

The purpose of this program is to provide a revised pricing mechanism for experience rated risks to share in the underwriting losses they generate. While this program will be applied to all risks, a majority of the risks impacted are currently in the residual market.

The attached filing memorandum (EXHIBIT 1) outlines the background and impact of the program and contains Administration Rules and Procedures.

The Bureau will calculate the ARAP adjustment, and identify such as a separate percentage figure on the Experience Rating Calculation sheet (EXHIBIT 2). The Experience Rating Modification will continue to be shown as present. Distribution of these sheets to carriers will continue without change.

EXHIBIT 3 is a sample Information Page indicating the proper method for calculating premium when there is an All Risk Adjustment.

The Workers' Compensation Insurance Plan Application is being revised accordingly.

The National Council on Compensation Insurance will distribute Manual pages reflecting the changes required in the Experience Rating Plan Manual.

NORMAN R. FONTAINE Vice President

### ALL RISK ADJUSTMENT PROGRAM (ARAP)

PURPOSE:

The purpose of this filing is to provide a revised pricing mechanism for experience rated risks to share in the underwriting losses that they generate. This proposal will surcharge risks with a record of losses greater than expected under the experience rating plan. While this program will be applied to all risks, a majority of the risks actually impacted are currently in the residual market.

**BACKGROUND:** 

The residual market is intended to serve as the market of last resort to ensure the availability of workers compensation and employers liability insurance to all employers required by law to provide this coverage but unable to obtain it through the voluntary market.

Over the last four years combined, the residual market suffered an operating loss of approximately \$440 million in Massachusetts. Carriers writing voluntary insurance continue to absorb the increased burden being placed on it by the rapid expansion of the residual market. In Massachusetts, the subsidy has grown over the last few years and is currently estimated to be approximately 22%. (In other words, for every dollar of voluntary market, \$.22 must be used to subsidize the increased loss experience in the residual market.) These subsidies are causing severe financial hardships to insurance carriers. As a result, competition among voluntary carriers has diminished.

The residual market has evolved into more than a market of last resort. The number of risks and the amount of premium have grown significantly in the past five years.

## Massachusetts Workers' Compensation <u>Percentage of Premium Written in the Residual Market</u>

| <u>1984</u> | <u> 1985</u> | <u> 1986</u> | <u> 1987</u> | <u> 1988</u> |
|-------------|--------------|--------------|--------------|--------------|
| 10.4%       | 14.7%        | 20.4%        | 25.0%        | 29.5%        |

PROPOSAL:

It is proposed that the attached All Risk Adjustment Program (ARAP) be implemented effective January 1, 1990.

IMPACT:

The proposed surcharge will range from 0 to a maximum of +49 percent of standard premium.

|                                      | Distribution<br>of | Distribution of |
|--------------------------------------|--------------------|-----------------|
|                                      | Number             | Standard        |
|                                      |                    |                 |
| ARAP Surcharge                       | <u>Risks</u>       | <u>Premium</u>  |
| None                                 | 76.8%              | 65.6%           |
| Less than or equal to 10%            | 7.6                | 17.1            |
| More than 10%, but not more than 20% | 7.2                | 7.2             |
| More than 20%, but not more than 30% | 4.9                | 4.7             |
| More than 30%, but not more than 40% | 2.2                | 2.8             |
| More than 40%                        | 1.3                | 2.6             |

ARAP would generate for risks subject to Experience Rating about 5.2% more premium. For assigned risks subject to Experience Rating ARAP would generate 8.6% more premium.

### IMPLEMENTATION:

In order to implement this proposal, the attached exhibit illustrates the changes required in the Experience Rating Plan Manual.

#### ADMINISTRATION RULES AND PROCEDURES

- 1. <u>Eligibility</u> A risk shall be eligible for the All Risk Adjustment Program if it is eligible for an experience rating modification. The application of this program is mandatory for all eligible insureds and shall apply to all policies written for such insureds.
- 2. ARAP Surcharge Formula -
  - After the calculation of the experience modification factor (M) for a particular risk, the weighted test ratio (R) is calculated.

$$R = \frac{(0.5 - 0.5W) \text{ Ap}}{\text{M} \cdot \text{Ep}} + \frac{(0.5 + 0.5W) \text{ A}}{\text{M} \cdot \text{E}}$$

where:

W is the weighting value

A is the actual losses, as limited on a per accident basis

Ap is the actual primary losses

E is the total expected losses

Ep is the expected primary losses

M is the normal experience modification

All values are those used in the experience modification calculation.

b. If R is greater than 1.0 a surcharge factor will be calculated using the following formula:

$$S = 1 + \left[\frac{(.08) E (R-1)^{-1.25}}{(E+3)^{-0.5}}\right]$$

#### where:

- E is the total expected losses of the particular insured (in thousands), (limited to 40),
- R is the weighted test ratio (calculated in 2A), (limited to 2)
- c. The Surcharge factor S will appear on all rating forms. This surcharge factor will be applied to standard premium (i.e. after experience rating) developed in the state(s) where effective.
- 3. Inherent in the rules above is a limit on the surcharge of 49% of standard premium. Only insureds with expected losses equal to or greater than \$40,000 will be subject to the maximum surcharge. The following table shows sample maximum surcharges by risk expected loss size.

| Risk Expected Losses | <u>Maximum Surcharge</u> |
|----------------------|--------------------------|
| 2,500                | 9%                       |
| 5,000                | 14%                      |
| 10,000               | 22%                      |
| 25,000               | 38%                      |
| 40,000 and over      | 49%                      |

#### 4. <u>Definitions</u>

For the purposes of this program the following definitions apply.

- a. <u>Weighted Test Ratio</u>: A comparison of the risk's actual losses to the modified expected losses. A ratio greater than 1.00 is subject to the ARAP surcharge. This test ratio is limited to 2.00.
- b. <u>ARAP Surcharge Factor</u>: The factor is applied to the normal standard premium. This factor is determined by a formula using the weighted test ratio.

5. Experience rated risks with Multi-state operations shall be subject to the ARAP for that portion of the risk in Massachusetts. The ARAP surcharge shall be calculated using Massachusetts losses and expected losses. The ARAP surcharge shall be applied to the Massachusetts portion of the premium.

THE WORKERS' COMPENSATION RATING AND INSPECTION BUREAU OF MASSACHUSETTS EXHIBIT 2

BUREAU FILE NO. 999999M EXPERIENCE RATING CALCULATION PAGE 1 1 08

| BUREAU                               | FILE A    | 10. 999   | 999M                    |            |   |                      | <u> </u>       |  |                            |           | NG CAL         |          | LATION                          | <u> </u>  | P               | AGE 1                                 | _1               | 08                             |                   |
|--------------------------------------|-----------|---|-------------------------|------------|---|----------------------|----------------|--|----------------------------|-----------|----------------|----------|---------------------------------|-----------|-----------------|---------------------------------------|------------------|--------------------------------|-------------------|
| CLASS CODE                           | (2)<br>YR | (3)<br>PAYRO  | PLL .                   | (2)<br>YR  | (3)<br>PAYROL   | ı                    | (2)<br>YR      |  | RT II — EX<br>3)<br>ROLL   | (2)<br>YR | OF EXPECTED LO | OSSES    | (4) EXPECTE PAYROLL ( UNLIMITED | D LOSS RA |                 | (5) EXPECTED LOSSE<br>(3) X (4) ÷ 100 | (6) "D"<br>RATIO | (7) PRIMARY EX<br>LOSSES (5) 7 | (PECTED<br>K (6)  |
| 2003<br>3810<br>3079                 | 7 7 7     | 20  | 35987<br>06465<br>54315 | 6          | 3   | 8289<br>7419<br>9163 | 5<br>5<br>5    | 1  | 660593<br>115400<br>150805 |           |                |          | 3.83<br>.15<br>1.86             |           |                 | 89808<br>539<br>6962                  | .34              |                                | 739<br>183<br>576 |
| TOTAL                                | 7         | 109   | 96767                   | 6          | 105   | 4871                 | 5              | <u> </u>   | 926798                     |           |                |          | EXPECTED (f)=(d)                |           | (d              | ) TOTAL<br>EXPECTED LOSSES            |                  | TAL PRIMAR                     |                   |
|                                      |           |   |                         |            |   |                      |                |  | ABT 1 FY                   | *****     | 05 4671141 10  |          |                                 | 6581      | l               | 9730                                  | 9                | 3149                           | 9 <u>8</u> <      |
| (8) YR                               | CLA       | (9)<br>LIM NUMBER   | (10)<br>INC             | AC<br>URRE | TUAL<br>D LOSSES  | (11) P               | RIMA<br>JAL LI | <del></del>  | AKII — EX                  | НІВІ      | OF ACTUAL LO   | (8) Y    | R CLAIM NU                      | IMBER     | (10)<br>INC     | ACTUAL<br>CURRED LOSSES               | (11) PRI         | MARY<br>IL LOSSES              |                   |
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| DOT                                  | я         | 10  | 2456                    |            |   |                      |                |  | 10/01                      | 101       |                |          | (a)(b)                          | (a        |                 | ED LOSSES                             |                  | PRIMARY<br>UAL LOSSES          | . ;               |
| POI                                  | . 1t      | 12.   | 3456                    |            |   |                      |                | <del>-</del>   | 12/01                      | / 80      |                | Т        | 82071                           | <u> </u>  | DADT II         | 119692  <br>II — <b>RATING PRO</b> C  | EUIDE            | 3762                           | $\dashv$          |
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| CODE NO.                             | MA        | NUAL CLAS   | SIFICATIO               | N          |   |                      |                |  |                            |           |                |          |                                 | AÜT       | HORIZED<br>RATE |                                       | ATE EFFEC        | TIVE                           | $\leq$            |
| 2003<br>079<br>8810                  | R         | ESTAURA   | ANT -                   | N          | SR & DR<br>OC<br>E EMPLO  |                      | NC             | OC .   | 7                          |           |                |          |                                 |           |                 | JA<br>DATE ISSU                       | AN. 1,           | 1990                           |                   |
|                                      |           | · · · · · · · · · · · · · · · · · · ·                       |                         |            |   |                      |                |  |                            |           |                |          |                                 |           |                 | DE                                    | CC. 8,           | 1989                           |                   |

## Sample Premium Calculation For Risk Subject To ARAP

LOCATIONS, CLASSIFICATION AND PAYROLL IN MASSACHUSETTS Calculation of Estimated Annual Premium:

| Describe by location the duties of employees  | Class<br>Code   | Number of<br>Employees  | Total<br>Payroll | Rate        | Premium  |  |
|---|---|---|------------------|-------------|----------|--|
| Carpentry - NOC   | 5403  | 2   | 30,000           | 26.89       | 8067     |  |
| Concrete Construction - NOC   | 5213  | . 1   | 10,000           | 25.38       | 2538     |  |
| Clerical Office Employees NOC Salesperson, Collectors or Messengers - Outside Drivers, NOC Employers Liability / /  | 8810<br>8742<br>7380  | 1   | 15,000           | 0.29        | 44       |  |
|   |   | 10 to | To               | tal Premium | \$10,649 |  |
| [1] Experience Modification (1.07)  |   |   |                  |             | 745      |  |
|   | Standard Premium  |   |                  |             |          |  |
|   | [1] ARAP Surcharge (1.04) [2] Less Premium Discount (if applicable) |   |                  |             |          |  |
|   |   |   |                  |             |          |  |
| Expense Constant  Total Estimated Annual Premium  Mass. D.I.A. Assessment (1.2%) of Standard Premium  Total of Estimated Annual Premium and Mass. D.I.A. Assessment |   |   |                  |             |          |  |

<sup>1.</sup> Available from Bureau.

<sup>2.</sup> Premium Discount is a percentage of Standard Premium.