

January 8, 1953

AEC PLAN FOR RECOGNIZING GOOD SAFETY RECORDS

The Atomic Energy Commission is adopting, effective January 1, 1953, a plan for recognition of superior safety records of contractors, subcontractors, and AEC offices. This plan parallels, in most respects, the current plan of the National Safety Council for recognizing good safety records.

1. Eligibility. Organizations contracted to the United States whose contracts are administered by the U. S. Atomic Energy Commission, subcontractors of such contractors, and AEC Operations Offices are eligible.
2. Types of Recognition. Four types of recognition will be employed:
  - a. Award of Honor. For a record of 3,000,000 man-hours or more without a disabling injury, accumulated in a period of not less than 30 days; or for reduction of injury rates in one or more entire calendar years computed according to the attached form.
  - b. Award of Merit. For a record of 1,000,000 to 3,000,000 man-hours without a disabling injury, accumulated in a period of not less than 30 days; or for reduction of injury rates in one or more entire calendar years computed according to the attached form.
  - c. General Manager's Commendation. For a record of 200,000 to 1,000,000 man-hours without a disabling injury, accumulated in a period of one or more entire calendar years.
  - d. Manager's Letter. For a record of 10,000 to 200,000 man-hours without a disabling injury, accumulated in a period of one or more entire calendar years.
3. Determining Recognition.
  - a. A contractor or subcontractor whose record of man-hours without a disabling injury qualifies for appropriate recognition before the close of a calendar year must apply to, and have the record certified to Washington, D. C., by, the appropriate AEC office administering the prime contract. AEC area and field offices will apply similarly. Records of Operations Offices' Government employees' experience qualifying for recognition on this basis will report their records to, and will be subject to confirmation by, AEC, Washington, D. C.

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- b. Records of contractors, subcontractors, and AEC offices which cover the calendar year will be analyzed by AEC, Washington, after the close of the calendar year to determine those records which qualify for the Award of Honor, Award of Merit, or General Manager's Commendation. If a record covers two or more calendar years, however, the contractor, subcontractor, or AEC office must apply for recognition in the manner outlined immediately above.
  - c. Records which qualify for the Manager's Letter at the end of one or more calendar years will be determined by the Operations Office to which monthly injury summary reports are submitted. Managers of these AEC offices will issue this award.
4. General. Injury rates in the atomic energy program have been markedly better than comparable industry rates released by either the National Safety Council or the Bureau of Labor Statistics, U. S. Department of Labor. It is more practical, therefore, that contractors, subcontractors, and AEC offices qualify for recognition by attaining records which are better than the average rates for the atomic energy group in which their work is allocated. These groups are known as Production, Research, Services, Lump-Sum Construction, Cost-Plus Construction, Architect-Engineering, and Government.
- a. For recognition, records of man-hours without disabling injury shall begin to accrue on and after January 1, 1953. Similarly, recognition for improved experience will be given for no calendar year earlier than 1953. Applicable frequency and severity rates of atomic energy groups for purposes of evaluation will be released initially as soon as practicable after the close of 1952.
  - b. Application for recognition of a record without disabling injury may be made at any time after the record is terminated by a disabling injury, but not earlier than January 31, 1953.
  - c. Only the highest award earned during any one calendar year will be made to any organization reporting individually.
  - d. Individual recognition will not be given more frequently than once each year.
  - e. The Safety and Fire Protection Branch, Washington, shall be responsible for interpreting rules, making decisions, and obtaining awards to be made.
  - f. Rules are subject to change only at the beginning of a calendar year.

Attachment:  
Form AEC-340 (1-53)

U. S. ATOMIC ENERGY COMMISSION  
WORKSHEET FOR EVALUATING INDUSTRIAL SAFETY RECORD

This worksheet may be used within an organization to test eligibility of its own record or to set goals for the year ahead. Or, it may be used as an application form for records covering two or more calendar years, as provided in Item 1 on the reverse side.

NOTE !! See Instructions on next pages, numbered to correspond with items below.

Organization \_\_\_\_\_ Location \_\_\_\_\_

	<u>Freq. Rate</u>	<u>Sev. Rate</u>
1. Current experience, for calendar year(s) _____	_____	_____
Employee hours in current experience _____		
2. Rates for _____ atomic energy group	_____	_____
3. Own previous experience: years _____	_____	_____
4. Determination of "Par" (a) Add lines 2 and 3;	_____	_____
(b) Take half of line 4. These are "Par" rates	_____	_____
5. Percent which current rates are under "Par" (Unit does not qualify if rates are over "Par")	- %	- %
6. Percent under "Par" required to qualify		
(a) Award of Merit (See Table)	- %	- 10%
(b) Award of Honor (Add 2 to percent above)	- %	- 30%
7. Do current rates qualify for:		
(a) Award of Merit (Is the decrease on line 5 equal to or greater than that on line 6a? Yes___ No___ Yes___ No___		
(b) Award of Honor (Is the decrease on line 5 equal to or greater than that on line 6b? Yes___ No___ Yes___ No___		
8. (a) If current rates (line 1) are higher than the corresponding previous rates (line 3), show percent increases. (If decrease, leave blank) + % + %		
(b) Are the increases (line 8a) less than maximum allowable: (If decreases, check "Yes")		
(1) For Award of Merit (less than 30%)	Yes___ No___	Yes___ No___
(2) For Award of Honor (less than 10%)	Yes___ No___	Yes___ No___

Signed \_\_\_\_\_ Title \_\_\_\_\_

Date \_\_\_\_\_

(over)

INSTRUCTIONS FOR EVALUATING INDUSTRIAL SAFETY RECORDS

(Items are numbered to correspond with those on the Worksheet on preceding page)

1. Current Experience.

The current experience submitted for recognition may consist of one or more calendar years (January 1 to December 31, inclusive). Since size of exposure determines in an important way whether current trends are reliable and statistically significant, the standards to be met are higher for smaller exposures. Consequently, each organization has the option of expanding the current period submitted for recognition to include additional calendar years and thus qualify for recognition of trends which would not be considered significant for a smaller exposure.

2. Rates for Atomic Energy Group.

The atomic energy group averages employed for evaluation shall be three-year averages which will be released after each calendar year. If a unit makes up 10% or more of the exposure within an atomic energy group, AEC, Washington, D. C., will upon request calculate atomic energy averages exclusive of such unit's experience for use in evaluating that unit's performance.

3. Own Previous Experience.

(a) If the current experience is one year, the previous experience shall consist of:

- (1) Three years' experience, if available, or
- (2) Two years' experience, if three is not available.

(b) If the current experience covers two or more years, the previous experience shall cover a period twice as long as that used for the current experience.

4. Determination of "Par"

The rates for the industry group and the unit's own previous experience are averaged to determine the unit's "par."

5. Percentage Current Rates Are Under "Par"

Divide the current rate by the "par" rate, multiply by 100, and subtract that product from 100.

$$\text{Formula: Percentage} = 100 - \frac{(\text{current rate} \times 100)}{\text{par rate}}$$

6. Percentage under "Par" to Qualify.

To determine the percentage by which the current frequency rates must be under "par," to qualify for an Award of Merit, refer to the Table (next page) on the line for the organization's par and under the column which represents the employee-hours included in the current experience. The percentages shown are simply 10% plus the percentage needed to be statistically significant for the size record being evaluated. The percentage under par to qualify for an Award of Honor is 20 plus the percentage shown in the Table for Award of Merit.

The severity rate must be under par by 10% to qualify for an Award of Merit and 30% for an Award of Honor. (Do not use the Table.)

7. Both Rates Must Qualify.

Check appropriate boxes. Both the current frequency rate and the current severity rate must qualify for any Award.

8. Increases in Current Rate.

This question need not be answered unless either of the current rates (line 1) is higher than the corresponding previous rate (line 3). If either rate has increased, the increase may not exceed 30% for the Award of Merit, and may not exceed 10% for the Award of Honor.

**PERCENTAGE REDUCTION IN FREQUENCY RATE NECESSARY TO SATISFY THE REQUIREMENT FOR AWARD OF MERIT**

(To determine the requirement for the Award of Honor, add 20 to each percent reduction shown)

Par Rate	EXPOSURE IN CURRENT PERIOD (Millions of Man-Hours)																											
	1/4-1/2	1/2-3/4	3/4-1	1-1 1/4	1 1/4-1 1/2	1 1/2-1 3/4	1 3/4-2	2-2 1/4	2 1/4-2 1/2	2 1/2-2 3/4	2 3/4-3	3-3 1/2	3 1/2-4	4-4 1/2	4 1/2-5	5-6	6-7	7-8	8-10	10-12	12-16	16-20	20-25	25-30	30-40	40-60	60-Over	
80.00-over	38	33	30	28	26	25	24	23	23	22	22	21	20	19	19	18	18	17	16	16	15	14	14	14	13	13	12	
60.00-79.99	42	36	32	30	28	27	26	25	24	23	23	22	21	21	20	19	18	18	17	16	16	15	14	14	14	13	12	
50.00-59.99	47	40	36	33	31	30	28	27	26	26	25	24	23	22	22	21	20	19	18	17	16	16	15	15	14	13	13	
40.00-49.99	50	43	38	35	33	31	30	29	28	27	26	25	24	23	23	22	21	20	19	18	17	16	16	15	14	14	13	
30.00-39.99	55	47	42	38	36	34	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	16	15	14	13	
20.00-29.99	58	49	44	40	38	36	34	33	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	
15.00-19.99	62	52	47	43	40	38	36	34	33	32	31	30	28	27	26	25	24	23	22	21	19	18	17	17	16	15	14	
12.00-14.99	66	56	50	46	43	40	38	37	35	34	33	31	30	29	28	26	25	24	23	22	20	19	18	17	16	15	14	
10.00-11.99	72	60	54	49	46	43	41	39	38	36	35	33	32	31	30	28	26	25	24	23	21	20	19	18	17	16	14	
8.00-9.99	77	64	57	52	49	46	43	41	40	38	37	35	34	32	31	29	28	27	25	24	22	21	19	19	17	16	15	
6.00-7.99	81	68	60	55	51	48	45	43	42	40	39	37	35	34	32	30	29	28	26	24	23	21	20	19	18	16	15	
5.00-5.99	86	72	63	58	54	50	48	46	44	42	41	39	37	35	34	32	30	29	27	25	23	22	21	20	18	17	15	
4.00-4.99	92	77	68	62	57	54	51	49	47	45	43	41	39	37	36	34	32	30	28	27	24	23	22	21	19	17	16	
3.00-3.99	95	79	67	64	59	55	53	50	48	46	45	42	40	38	37	35	33	31	29	27	25	23	22	21	20	18	16	
2.00-2.99	100	83	73	66	62	58	55	52	50	48	47	44	42	40	38	36	34	32	30	28	26	24	23	22	20	18	16	
1.50-1.99	87	77	69	64	60	57	54	52	50	49	46	43	41	40	37	35	34	31	29	27	25	23	22	21	19	17	15	
1.25-1.49	89	78	71	66	62	58	56	53	51	50	47	44	42	41	38	36	34	32	30	27	25	24	23	21	19	17	15	
1.00-1.24	92	81	73	68	63	60	57	55	53	51	48	45	43	42	39	37	35	32	30	28	26	24	23	21	19	17	15	
.75-.99	95	83	75	69	65	62	59	56	54	52	49	47	44	43	40	38	36	33	31	28	26	25	23	22	19	17	15	
.50-.74	97	86	78	72	67	63	60	58	55	54	50	48	46	44	41	39	37	34	32	29	27	25	24	22	20	18	16	
.25-.49	100	88	80	74	69	66	62	60	57	55	52	49	47	45	42	40	38	35	33	30	28	26	24	22	20	18	16	
.00-.24		92	83	77	72	68	64	62	59	57	54	51	49	47	43	41	39	36	34	30	28	26	25	23	21	18	16	
		94	85	78	74	69	66	63	61	58	54	52	50	48	44	42	40	37	34	31	29	27	25	23	21	18	16	
		97	87	81	76	71	68	65	62	60	56	53	51	49	45	43	41	37	35	32	29	27	26	24	21	19	17	
		100	90	83	78	73	69	66	64	62	58	55	52	50	47	44	42	38	36	32	30	28	26	24	22	19	17	
			93	86	80	76	72	68	66	63	60	56	54	51	48	45	43	39	37	33	31	29	27	25	22	19	17	
			96	88	83	78	74	71	68	66	61	58	55	53	49	46	44	40	38	34	31	29	28	25	22	20	18	
			100	92	86	81	77	73	70	68	63	60	57	55	51	48	45	42	39	35	32	30	28	26	23	20	18	
				95	89	84	80	76	73	70	66	62	59	57	53	50	47	43	40	36	33	31	29	27	23	20	18	
				100	93	87	83	79	76	73	66	65	62	59	55	51	49	45	42	37	35	32	30	27	24	21	18	
					100	92	87	83	79	77	70	68	64	62	57	54	51	47	43	39	36	33	31	28	25	22	19	
						95	90	86	83	79	74	70	67	64	59	55	53	48	45	40	37	34	32	29	26	22	19	
						100	95	90	86	83	77	73	69	66	62	58	55	50	47	42	38	35	33	30	26	23	20	
							100	95	90	87	81	77	73	69	64	60	57	52	49	43	40	37	34	31	27	23	20	
								100	95	92	86	81	77	73	68	63	60	55	51	45	42	38	36	32	28	24	21	
									100	92	86	81	77	72	67	63	58	54	48	44	40	38	34	30	26	22	19	
										100	92	87	83	77	72	68	62	57	51	47	43	39	36	33	31	28	25	22
											100	92	87	83	77	72	68	64	59	53	48	45	42	39	36	33	30	27
												100	90	83	78	73	66	60	55	50	46	43	40	37	34	31	28	
													100	100	86	81	73	68	60	55	50	47	42	36	30	26	23	
															100	100	86	81	73	68	60	55	50	47	42	36	30	
																	100	100	83	77	68	62	56	52	47	40	33	
																			100	100	81	73	66	62	55	47	38	

\* If exposure for the year(s) under review is below 1/4 (250,000 man-hours), use additional calendar years.

\*\* For all combinations of rate and size which fall in the blank area, the "par" number of disabling injuries is so small that even a reduction to zero does not meet these minimum requirements for the award. Use additional years to increase exposure, or see the criteria for award for records without disabling injury.