

Monsanto

JAN 1 1981

PLAINTIFF'S EXHIBIT

MON-3273

FROM NAME & LOCATION

J.A. Glass, LP&S O-22 - Texas City

DATE December 30, 1980
SUBJECT DMEH BULLETIN NO. 80-4
REFERENCE GUIDELINE ON FACIAL HAIR AND
RESPIRATOR FITTING
TO Jim Murphy, DMEH, St. Louis

cc G. L. Tromblee 0-10
H. N. Keating G4WA
D. E. Kaldenberg 0-7
LP&S Staff

Attached for your information is a copy of our Respiratory Protective Program, Plant Procedure Bulletin P-0130. This is the Bulletin we have been operating under in regard to facial hair and respirator fitting. While we recognize that we may have problems in the uniform plantwide administration of this program, we believe that the procedures and requirements of the OSHA standards on this subject and comply with the DMEH guideline issued on November 21, 1980.



J. Arnold Glass

JAG/jt

MAP 001482

LAM023358

PROCEDURE BULLETIN - TEXAS CITY PLANT P-0130

RESPIRATORY PROTECTIVE PROGRAM

I. PURPOSE

This bulletin establishes respiratory protection procedures to protect employees against exposure to chemical or physical contaminants encountered during normal and emergency conduct of their work.

II. SCOPE

This procedure covers (1) the maintenance of good breathing air quality, and (2) the selection, use, and training in the use of respiratory equipment at various parts of the plant.

The equipment and procedures described in this bulletin are considered to be the minimum required for safe and healthy working conditions in accordance with government regulations.

III.

BREATHING AIR SYSTEMS - GENERAL CRITERIA

1. Introduction

This procedure applies to compressed air used for personnel breathing. The air is supplied by a system that is directly from the plant or from outside sources requiring air for breathing. The system is a distribution system of compressed breathing air or other gas. The system is a Safety Department.

This procedure applies to instrument air systems except that INSTRUMENT AIR SHALL NOT BE USED FOR BREATHING.

CAUTION: TO AVOID CROSS CONTAMINATION, DO NOT CONNECT TO OTHER SYSTEM.

2. Respiratory Protection

A. Air Quality

The Department of Safety, is responsible for the quality of breathing air supplied by the plant to the distribution header.

MAP 001483

PROCEDURE BULLETIN—TEXAS CITY PLANT P-0130

RESPIRATORY PROTECTIVE PROGRAM

All tie-ins to the breathing air plant header must be approved by the manufacturing supervisor of the Compressed Air Department. Plant Services must be informed to keep distribution piping drawings up-to-date.

The plant Stores Department is responsible for maintaining an adequate cylinder or trailer supply of breathing air for purchase by units not using the plant header. The contents of each cylinder, on receipt, shall be checked for oxygen concentration. Analysis shall indicate $21\% \pm 1\%$ oxygen for acceptance. Accepted cylinders shall be tagged and signed by the individual who conducted the analysis.

The Purchasing Department shall not purchase cylinder air from a supplier other than the Linde Division of Union Carbide without prior approval of the Loss Prevention & Safety Department. A change in supplier shall first require a letter of quality certification acceptable to the Loss Prevention & Safety Department. Acceptance shall be based on inspection of the supplier's cylinder filling facilities.

B. Pipeline

The Compressed Air Department is responsible for the breathing air distribution system from the battery limits of the Air Department to the header and including the first tie-in to the header. They shall safeguard the integrity of the distribution header system by a monthly inspection of the system to include a visual integrity, unauthorized tie-ins, excessive corrosion, etc. A written report will be made to the Department head.

Using departments are responsible for piping systems from the header, block valve and inside battery limits. Owners are responsible to see that the breathing air system is not contaminated from within an owner's system. They shall safeguard the integrity of the facility by using the breathing air system for personal breathing protection only. A monthly visual check, as per Procedure Bulletin P-0100, "Plant Safety Program," shall be conducted on in-battery breathing air lines.

A written report will be made to the Department head. Owners are also responsible for conforming to installation and hose station standards.

LAM023360

MAP 001484

RESPIRATORY PROTECTIVE PROGRAM

Breathing air shall be piped to personal protective breathing equipment hose stations only. All such hose stations shall use the male quick disconnect, MSA Model No. CS47371 single fitting or Model No. 47370 manifold. The above fittings which match the standard issue breathing air supply hoses, are obtainable from Safety Supply. These quick connect fittings shall be used in breathing air systems only.

Please be aware that these cylinders are to be used on nitrogen hoses and hose stations. **Do not use on M16 or M4126.**

The breathing air system shall be painted according to the Texas City Plant color code procedure. The base color shall be blue and the stripe shall be red. Breathing air hose station shall be painted with the following reading "Breathing Air Valve" and "Texas City Fire Department".

I. Introduction

The Texas Civilian Control Act provides that no person shall be available a type of responsibility for the work to be performed and shall be required to perform such work as may be assigned to him. (See, IV, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 8

A. Department

0000981 PST

persons requiring respiratory protection are responsible.

- (1) Inspect the work area to evaluate possible exposure hazards and use of respiratory protective equipment. Specify appropriate equipment.
- (2) Prepare and maintain written procedures for the selection and use of protective equipment and its proper care and storage.
- (3) Train employees in proper selection, care, storage and use of respiratory protective equipment and maintain records of this training.

PROCEDURE BULLETIN—TEXAS CITY PLANT

P-0130

RESPIRATORY PROTECTIVE PROGRAM

- (4) Inspect all respiratory equipment and maintain a record of these inspections.
- (5) Review all changes in scope of the work in progress for its impact on respiratory protection requirements.
- (6) Insure the proper application of use, training, inspections, and record keeping as specified above

B. Loss Prevention and Safety (LP&S)

The LP&S department is responsible for:

- (1) Work with operating units under draft supervision in the inspection of work areas to evaluate possible respiratory hazards and to specify respiratory protection for the inspection specify

- (2) Provide training and information to the operating units on the proper use, sterilize, and maintenance of respirators to Safety

- (3) Provide training and information on the storage of

- (4) Provide training and information on the supply on

3. Procedures

A.

- (1) Procedures shall be prepared, in each unit, regarding the selection and safe use of respirators in dangerous atmospheres which might be encountered in normal or emergency operations.

- (2) Employees will be trained by their supervisors in the proper use of the equipment. Refresher training will be given annually.

MAP 001486

PROCEDURE BULLETIN—TEXAS CITY PLANT P-0130

RESPIRATORY PROTECTIVE PROGRAM

- (3) The person required to use the equipment must be able to demonstrate that a proper respirator fit can be obtained. (See Section 3B—Respiratory Fitting).
- (4) Information pertaining to the respiratory devices and a guide to their selection will be maintained by the Loss Prevention and Safety section for plant-wide and new applications. In addition, each department and craft shall maintain respiratory information pertaining to their specific area in their operating or maintenance procedure manual.
- (5) Those individuals who wear prescription eye-glasses shall ensure that the glasses also are regularly inspected to ensure proper fit. Respiratory equipment shall be used with the respirator with special eye-glasses for the personal use.
- (6) The Loss Prevention and Safety section of the unit shall maintain a record of the use of the unit.
- (7) If a person wearing a respirator could become disoriented in a hazardous atmosphere with suitable emergency equipment, the person should not begin work until they are assured that help is available.
- (8) The Loss Prevention and Safety section will maintain a record of the use of the unit, per department, per craft, and per individual. The Safety Inspector shall be notified of any unsatisfactory performance.
- (9) The Loss Prevention and Safety section will maintain a record of the use of the unit. The Safety Inspector shall be notified of any unsatisfactory performance.
- (10) Each unit or craft supervisor shall keep current, a list of persons that are required to use respiratory equipment in the performance of their work. Update annually or when operating conditions change. A key consideration is the work being performed, not the general location of the work.

MAP 001487

PROCEDURE BULLETIN—TEXAS CITY PLANT

P-0130

RESPIRATORY PROTECTIVE PROGRAM

- (1) Each unit or craft supervisor shall keep current, a list of persons that are temporarily not physically able to use respiratory equipment and perform the work so they will not be assigned these tasks. Update annually or when operating conditions change.

B. Respirator Fitting

- (1) The purpose of any protective mask is to isolate the wearer from the surrounding atmosphere, by providing a leak-tight seal between the mask and the face. To insure the best possible opportunity for a good face piece-to-face seal, all employees who are required to wear respiratory equipment, must be free of facial hair protruding into the sealing portion of the respirator.

NOTE: Fitting tests shall be conducted on anyone not meeting these requirements.

- (2) The respirator shall be checked each time it is put on.
- (3) The fit test shall be conducted by the following methods:

a. **Positive Pressure Test:** Close the exhalation valve of the respirator by covering the facepiece. The test is satisfactory if a pressure can be built up inside the facepiece. The absence of outward air flow from the facepiece requires that the exhalation valve be replaced after the test.

b. **Negative Pressure Test:** Close off the inlet opening of the canister or cartridge(s) by covering with the palm of the hand(s) or by replacing the seal. Inhale gently so that the facepiece collapses slightly and hold the breath for 10 seconds. If the facepiece remains in a slightly collapsed condition and no inward leakage is detected, the fit of the respirator is considered satisfactory.

c. **Manufacturer's Instructions:** Follow the directions provided by the respirator manufacturer.

LAM023364

MAP 001488

PROCEDURE BULLETIN—TEXAS CITY PLANT P-0130

RESPIRATORY PROTECTIVE PROGRAM

- d. Movement Checks: The employee using the respirator should also turn his/her head from side to side and up and down to ensure that the respirator is sealed and will not become loose during wear.

(4) User must wear the respirator as originally designed:

a. All functional parts must be in place and worn in appropriate positions.

b. All straps must be properly adjusted.

c. Modifications to the respirator straps shall not be made.

(5) Users of all respirators must undergo fit testing.

(6) Users of all respirators must wear with respirator.

(7) Users of all respirators must wear face piece fit and use.

Written by:

J. A. Glass
D. W. Matter
G. T. Ryan
J. G. Tra

Reviewed by:

Plant Manager
Board

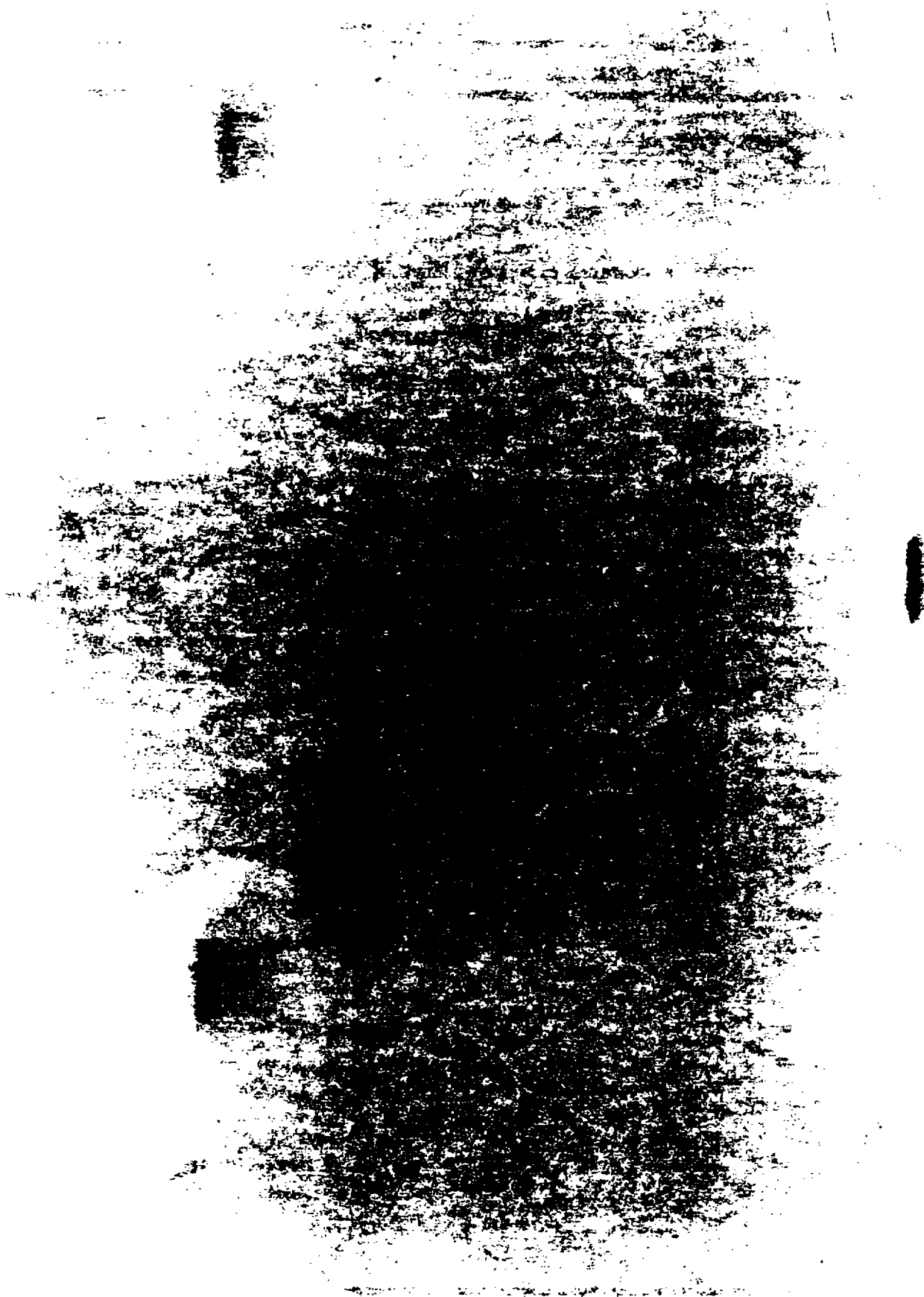
MAP 001489

ORIGINAL ISSUE: 12/6/76

REVISED: 12/21/78

PAGE 7 OF 7

LAM023365



LAM023366