

APPROVAL AND CERTIFICATION CENTER  
METHANE DETECTORS  
APPROVED UNDER PART 22

| <u>APPROVAL</u>    | <u>COMPANY</u>  | <u>ISSUE DT</u> | <u>DESCRIPTION</u>                                       |
|--------------------|---|-----------------|--|
| 8C-10              | TRANSOCEAN<br>COMMERCE<br>TRANSFERRED TO<br>RIKEN     | 05/11/53        | RIKEN TYPE MODEL 17                                      |
| 8C-11<br>WITHDRAWN | MINE SAFETY APP.                                      | 09/04/53        | ALARM TYPE   |
| 8C-12              | TRANSOCEAN<br>COMMERCE<br>TRANSFERRED TO<br>RIKEN     | 07/23/54        | RIKEN TYPE MODEL 18                                      |
| 8C-13<br>WITHDRAWN | MINE SAFETY APP.                                      | 09/29/55        | P/N49167   |
| 8C-14              | BUREAU OF MINES                                       | 03/31/60        | TYPE A03   |
| 8C-15<br>WITHDRAWN | MINE SAFETY APP.                                      | 02/17/61        | NO. 85121 MINIATURE<br>METHANE-INDICATING<br>DETECTOR    |
| 8C-16              | SIGMA INSTRUMENT                                      | 09/27/63        | SIGMA TYPE 208C RECORDING<br>FLAME METHANOMETER          |
| 8C-17              | JOHNSON-WILLIAMS                                      | 06/28/65        | MODELS G, H, G-P, & H-P<br>COMBUSTIBLE GAS<br>INDICATORS |
| 8C-18<br>WITHDRAWN | MINE SAFETY APP.                                      | 03/22/67        | MODEL M-4<br>METHANOMETER                                |
| 8C-19              | GESELLSCHAFT FUR<br>GERATEBAU TRANS-<br>FERRED TO NMS | 04/03/67        | MODEL G70-D<br>METHANOMETER                              |

Last Updated 7/16/19

APPROVAL AND CERTIFICATION CENTER  
METHANE DETECTORS  
APPROVED UNDER PART 22

| <u>APPROVAL</u>    | <u>COMPANY</u>                | <u>ISSUE DT</u> | <u>DESCRIPTION</u>                               |
|--------------------|-------------------------------|-----------------|--|
| 8C-20              | BACHARACH INST.               | 10/09/67        | SSP METHANE-INDICATING DETECTOR                  |
| 8C-21              | JOHNSON-WILLIAMS              | 05/01/69        | MODEL 7126 MINIATURE METHANE INDICATING DETECTOR |
| 8C-22              | ENGLISH ELECTRIC CO.          | 10/28/69        | MODEL MARK 2A METHANE INDICATING DETECTOR        |
| 8C-23              | PITTSBURGH MINING RESEARCH    | 06/17/70        | RECORDING METHANOMETER, 6V, DC                   |
| 8C-24<br>WITHDRAWN | MINE SAFETY APP.              | 06/29/70        | METHANE SPOTTER, 3V, DC                          |
| 8C-25              | BACHARACH INST.               | 06/07/71        | BATTERY-PWRD METHANOMETER-ANEMOMETER SYS         |
| 8C-26              | COMPAGNIE AUXILIARE DES MINES | 04/03/72        | PORTABLE MULTIFUNCTION METHANOMETER TYPE GTM67A  |
| 8C-27              | COMPAGNIE AUXILIARE DES MINES | 09/18/72        | VM-1 HAND HEL METHANOMETER                       |
| 8C-28              | CANCELLED                     |                 |  |
| 8C-29              | BENDIX CORPORATION            | 04/05/73        | MODEL 800 MICRO METHANOMETER                     |
| 8C-30              | BIO-MARINE INDUST.            | 05/01/73        | OXYGEN/METHANE DETECTOR MODEL 922                |
| 8C-31              | BIO-MARINE INDUST.            | 05/14/73        | METHANE DETECTOR, MODEL 911                      |

Last Updated 7/16/19

APPROVAL AND CERTIFICATION CENTER  
METHANE DETECTORS  
APPROVED UNDER PART 22

| <u>APPROVAL</u>    | <u>COMPANY</u>                | <u>ISSUE DT</u> | <u>DESCRIPTION</u>   |
|--------------------|-------------------------------|-----------------|--|
| 8C-32<br>WITHDRAWN | MINE SAFETY APP.              | 04/16/74        | BATTERY-PWRD M502<br>METHANOMETER, 4.5V                          |
| 8C-33              | CHEMICAL SERVICE<br>ENGINEERS | 04/16/74        | BATTERY-PWRD DIGITAL<br>METHANOMETER MODEL 100<br>16.8V          |
| 8C-34              | BIO-MARINE INDUST.            | 04/16/74        | BATTERY-PWRD<br>COMBUSTIBLE GAS/OXYGEN<br>MONITORS, 4V           |
| 8C-35              | EDMONT WILSON                 | 02/12/75        | INDICATING METHANE<br>DETECTOR MODEL 60-400<br>WITH 60-408 PROBE |
| 8C-36              | BACHARACH INST.               | 11/26/75        | MINI CANARY METHANE<br>INDICATOR DETECTOR NO.<br>23-7630         |
| 8C-37              | CSE CORPORATION               | 02/26/76        | PORTABLE DIGITAL<br>METHANOMETER MODEL 102                       |
| 8C-38              | LEE ENGINEERING DIV           | 05/12/76        | REDUNDANT HEAD<br>METHANOMETER                                   |
| 8C-39<br>RESCINDED | E.D. BULLARD CO.              | 05/27/76        | METHANE INDICATING<br>DETECTOR MODEL 2201                        |
| 8C-40              | BIO-MARINE INDST.             | 05/12/76        | MODEL 902 INDICATING<br>METHANE & OXYGEN METER                   |
| 8C-41<br>RESCINDED | FEHR BROTHERS                 | 12/08/76        | GD-21 METHANE INDICATING<br>DETECTOR                             |
| 8C-42              | GASTECH INC.                  | 12/16/76        | MODEL 1177 GAS DETECTOR  |

Last Updated 7/16/19

APPROVAL AND CERTIFICATION CENTER  
METHANE DETECTORS  
APPROVED UNDER PART 22

| <u>APPROVAL</u>    | <u>COMPANY</u>                            | <u>ISSUE DT</u> | <u>DESCRIPTION</u>   |
|--------------------|---|-----------------|--|
| 8C-43              | NATIONAL MINE SERVICE (NMS)               | 05/24/78        | MODEL G2000 METHANE DETECTOR                               |
| 8C-44              | BACHARACH INST.                           | 05/31/78        | METHANE DETECTOR PART NO. 23-7660                          |
| 8C-45<br>WITHDRAWN | MINE SAFETY APP.                          | 05/24/78        | "DIGITAL SPOTTER" METHANE DETECTOR MODEL N PART NO. 465005 |
| 8C-46<br>WITHDRAWN | MINE SAFETY APP.                          | 07/14/78        | MODEL Q "DIGITAL SPOTTER" METHANE DETECTOR                 |
| 8C-47              | LEE ENGINEERING                           | 01/31/79        | MODEL HH-101 METHANE DETECTOR                              |
| 8C-48              | CSE CORP.                                 | 04/13/79        | MODEL 102-B  |
| 8C-49              | PYOTT-BOONE, INC.                         | 04/12/79        | MODEL 800 METHANE DETECTOR                                 |
| 8C-50              | CSE CORP.                                 | 11/21/79        | MODELS 180P AND 180R                                       |
| 8C-51              | APPALACHIAN ELECTRONIC INSTS. (AEI)       | 04/28/80        | MODEL 101  |
| 8C-52              | INDUSTRIAL SCIENTIFIC                     | 03/27/81        | MODEL CD-210   |
| 8C-53              | INDUSTRIAL SCIENTIFIC                     | 09/09/81        | MODEL MX-240   |
| 8C-54              | SCOTT AVIATION                            | 03/12/84        | MODEL S105   |
| 8C-55              | SCOTT AVIATION                            | 03/12/84        | MODEL S101   |
| 8C-56              | ELECTRONIC SAFETY PRODUCTS, (dba LUMIDOR) | 07/09/85        | MODELS PGM-12 & PGM-12C                                    |

Last Updated 7/16/19

APPROVAL AND CERTIFICATION CENTER  
METHANE DETECTORS  
APPROVED UNDER PART 22

| <u>APPROVAL</u>    | <u>COMPANY</u>        | <u>ISSUE DT</u> | <u>DESCRIPTION</u>  |
|--------------------|-----------------------|-----------------|---|
| 8C-57              | INDUSTRIAL SCIENTIFIC | 02/24/86        | MODEL CD-212  |
| 8C-58              | INDUSTRIAL SCIENTIFIC | 04/04/88        | MODEL CMX-270   |
| 8C-59              | INDUSTRIAL SCIENTIFIC | 04/13/90        | MODEL MX250   |
| 8C-60<br>WITHDRAWN | MINE SAFETY APP.      | 08/28/90        | MICROGARD METHANE,<br>METHANE/OXYGEN DETECTOR   |
| 8C-61              | INDUSTRIAL SCIENTIFIC | 02/12/92        | MDL.TMX410 & TMX 412<br>PERMISSIBLE<br>METHANE/OXYGEN TOXIC<br>GAS DETECTOR   |
| 8C-62<br>WITHDRAWN | MINE SAFETY APP.      | 05/13/92        | MDLS MINIGARD III<br>PERMISSIBLE METHANE-<br>OXYGEN-HYDROGEN SULFIDE<br>MONITOR AND METHANE-<br>OXYGEN AND CARBON<br>MONOXIDE MONITOR |
| 8C-63              | NEOTRONICS LTD.       | 07/30/93        | MODEL MINIGAS GAS<br>DETECTOR   |
| 8C-64<br>WITHDRAWN | MINE SAFETY APP.      | 12/10/93        | MODEL PASSPORT PERSONAL<br>ALARM PERMISSIBLE<br>METHANE-OXYGEN AND<br>TOXIC GASES DETECTOR  |
| 8C-65              | INDUSTRIAL SCIENTIFIC | 04/29/94        | MDL. LTX310 METHANE-<br>TOXIC-OXYGEN MONITOR  |
| 8C-66              | CSE CORPORATION       | 10/26/95        | MDL. 3000 PORTABLE<br>MULTIPLE GAS MONITOR  |

Last Updated 7/16/19

APPROVAL AND CERTIFICATION CENTER  
METHANE DETECTORS  
APPROVED UNDER PART 22

| <u>APPROVAL</u> | <u>COMPANY</u>  | <u>ISSUE DT</u> | <u>DESCRIPTION</u>   |
|-----------------|---|-----------------|--|
| 8C-67           | MINE SAFETY APP.  | 10/09/97        | MDL. PASSPORT FIVE STAR                                      |
| 8C-67-0         | RESCINDED 09/29/03  |                 | PERSONAL ALARM   |
| 8C-67-1         | RESCINDED 09/29/03  |                 |  |
| 8C-67-2         | STILL ACTIVE  |                 |  |
| 8C-68           | INDUSTRIAL SCIENTIFIC CORPORATION   | 11/12/97        | MDL. MDU420 METHANE MONITOR                                  |
| 8C-69           | INDUSTRIAL SCIENTIFIC CORPORATION   | 06/12/98        | MDL. ATX612 MULTI-GAS MONITOR                                |
| 8C-70           | INDUSTRIAL SCIENTIFIC CORPORATION   | 09/22/98        | MDL. ATX620 MULTI-GAS MONITOR                                |
| 8C-71           | INDUSTRIAL SCIENTIFIC CORPORATION   | 11/18/98        | MDL. CD211 METHANE DETECTOR                                  |
| 8C-72           | INDUSTRIAL SCIENTIFIC   | 12/10/99        | MDL. LTX311 MULTI-GAS MONITOR                                |
| 8C-73           | QUEST TECHNOLOGIES  | 07/09/99        | MULTILOG 2000, MULTI-CHECK 2000, SAFE CHECK 200 GAS MONITORS |
| 8C-74           | DRAEGER<br>SICHERHEITSTECHNIK<br>(TRANSFERRED TO DRAEGER MEDICAL SYSTEMS, INC.) | 02/23/00        | MODEL MINIWARN PORTABLE GAS MEASURING INSTRUMENT             |
| 8C-75           | CSE CORPORATION   | 05/18/00        | MODEL 104 "EXPLORER 4" MULTIPLE GAS MONITOR                  |
| 8C-76           | LUMIDOR SAFETY PRODUCTS   | 11/21/00        | MDL MICROMAX PRO-M MULTIPLE GAS DETECTOR                     |

Last Updated 7/16/19

APPROVAL AND CERTIFICATION CENTER  
METHANE DETECTORS  
APPROVED UNDER PART 22

| <u>APPROVAL</u> | <u>COMPANY</u>  | <u>ISSUE DT</u> | <u>DESCRIPTION</u>  |
|-----------------|---|-----------------|---|
| 8C-77           | DRAEGER SAFETY<br>(TRANSFERRED TO DRAEGER<br>MEDICAL SYSTEMS, INC.)       | 07/05/01        | MODEL MULTIWARN II MULTI<br>GAS DETECTOR                  |
| 8C-78           | INDUSTRIAL<br>SCIENTIFIC CORP.  | 12/18/02        | MODEL iTX Multi-Gas Monitor                               |
| 8C-79           | ELECTRASEM LLC/<br>GENERAL MONITORS                                       | 09/30/02        | MODELS G20 AND G40<br>PORTABLE GAS DETECTORS              |
| 22-A040001      | MINE SAFETY APP.  | 05/19/04        | MODEL SOLARIS MULTI-GAS<br>DETECTORS                      |
| 22-A040002      | INDUSTRIAL SCIEN.   | 09/01/04        | MODEL M40 MUL.TI-GAS<br>MONITOR AND SP40 SAMPLING<br>PUMP |
| 22-A040003      | DRAEGER SAFETY, INC.<br>(TRANSFERRED TO DRAEGER<br>MEDICAL SYSTEMS, INC.) | 11/15/04        | MODEL PAC EX2 METHANE<br>AND METHANE-OXYGEN<br>DETECTORS  |
| 22-A050001      | DRAEGER SAFETY, INC.<br>(TRANSFERRED TO DRAEGER<br>MEDICAL SYSTEMS, INC.) | 08/02/05        | MODEL X-aM 3000 FOUR GAS<br>MONITOR                       |
| 22-A060001      | SCHAUENBURG<br>FLEXADUX (PTY) LTD.  | 03/14/06        | MODEL OBSERVER MULTI-GAS<br>DETECTION INSTRUMENT          |
| 22-A080001      | DRAEGER SAFETY, INC.<br>(TRANSFERRED TO DRAEGER<br>MEDICAL SYSTEMS, INC.) | 04/18/08        | MODEL X-AM 2000 MULTI-GAS<br>MONITOR                      |
| 22-A080002      | INDUSTRIAL SCIENTIFIC   | 08/05/08        | MODEL MX6 iBRID MULTI-GAS<br>MONITOR                      |

Last Updated 7/16/19

APPROVAL AND CERTIFICATION CENTER  
METHANE DETECTORS  
APPROVED UNDER PART 22

| <u>APPROVAL</u> | <u>COMPANY</u>   | <u>ISSUE DT</u> | <u>DESCRIPTION</u>  |
|-----------------|--|-----------------|---|
| 22-A090001      | INDUSTRIAL SCIENTIFIC  | 08/27/09        | MODEL MX-4i- QUAD™ MULTI-GAS MONITOR                      |
| 22-A100001      | DRAEGER SAFETY INC.<br>(TRANSFERRED TO DRAEGER<br>MEDICAL SYSTEMS, INC.) | 01/19/10        | X-aM 5000 MULTI-GAS<br>MONITOR                            |
| 22-A110001      | CSE CORPORATION  | 05/09/11        | MODEL G4 MULTI-GAS<br>MONITOR                             |
| 22-A120001      | INDUSTRIAL SCIEN.<br>CORP.   | 03/23/12        | MODEL VENTIS MX4<br>MULTI-GAS MONITOR                     |
| 22-A130001      | MINE SAFETY<br>APPLIANCES<br>(TRANSFERRED TO<br>MSA INNOVATION, LLC)     | 02/19/13        | MODEL ALTAIR 4X<br>PERMISSIBLE MULTI-GAS<br>DETECTOR      |
| 22-A140001      | DRAEGER SAFETY<br>(TRANSFERRED TO DRAEGER<br>MEDICAL SYSTEMS, INC.)      | 09/08/14        | MODEL X-AM 2500<br>MULTI-GAS MONITOR                      |
| 22-A140002      | STRATA SAFETY<br>PRODUCTS  | 11/17/14        | MODEL GX-2009 MULTI-GAS<br>MONITOR                        |
| 22-A160002      | INDUSTRIAL SCIENTIFIC<br>CORPORATION                                     | 11/10/16        | MODEL VENTIS PRO 4 AND<br>PRO 5 MULTI GAS MONITORS        |
| 22-A160001      | MINE SAFETY<br>APPLICANCES<br>(TRANSFERRED TO<br>MSA INNOVATION, LLC)    | 12/23/16        | MODEL ALTAIR 5X AND<br>ALTAIR 5X IR MULTI-GAS<br>DETECTOR |
| 22-A160003      | GFG INSTRUMENTATION<br>INC.  | 12/30/16        | MODELS G450 MULTI-GAS<br>DETECTOR AND G400 MP-2<br>PUMP   |

Last Updated 7/16/19



APPROVAL AND CERTIFICATION CENTER  
METHANE DETECTORS  
APPROVED UNDER PART 22

| <u>APPROVAL</u> | <u>COMPANY</u>                | <u>ISSUE DT</u> | <u>DESCRIPTION</u>   |
|-----------------|-------------------------------|-----------------|----------------------|
| 22-A170001      | GAS CLIP<br>TECHNOLOGIES, INC | 11/13/2017      | MODEL MULTI GAS CLIP |