

ALARA Recap

Summary - individual and collective occupational exposure

LANDAUER®
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DATA CURRENT AS OF JULY 30, 2004 SECOND QUARTER 2004 ALARA REPORT FOR ACCOUNT: 103702 SAMPLE ORGANIZATION PAGE 2

| PART NAME | PART NO. | SER CDE | DOSE TYPE | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR TOTAL | SECOND QTR | LEVEL Q |
|---------------------|----------|---------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------|------------|---------|
| MILES BARB | 00619 | | WB-DDE | | | | M | 20 | M | | | | | | | 20 | 20 | |
| SER COLLECTIVE DOSE | | | TOTAL | | | | M | 20 | M | | | | | | | 20 | 20 | |
| | | | TOTAL | | | | M | 20 | M | | | | | | | 20 | 20 | |
| | | | TOTAL | | | | M | 20 | M | | | | | | | 20 | 20 | |
| SMITHE JAMES | 00001 | A | WB-DDE | M | M | M | M | M | M | | | | | | | M | M | |
| | | | R FINGER | M | M | M | M | M | M | | | | | | | M | M | |
| | | | L FINGER | M | M | M | M | M | M | | | | | | | M | M | |
| BREWER-HENDRIX | 00002 | A | WB-DDE | 190 | 190 | 210 | M | M | M | | | | | | | 500 | M | 1Y |
| | | | R FINGER | M | M | | M | M | M | | | | | | | M | M | |
| | | | L FINGER | M | M | | M | M | M | | | | | | | M | M | |
| DROSS SUSAN | 00004 | A | WB-DDE | | | | M | M | M | | | | | | | 20 | 20 | |
| CARSON AARON | 00008 | A | WB-DDE | M | M | 410 | M | M | M | | | | | | | 410 | M | |

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THE FOLLOWING REPORT IS DESIGNED AS A TOOL TO AID IN KEEPING BOTH INDIVIDUAL AND COLLECTIVE OCCUPATIONAL EXPOSURE (MREM) AS LOW AS REASONABLY ACHIEVABLE.

INVESTIGATIONAL LEVELS ARE INCLUDED FOR YOUR CONVENIENCE IN IMPLEMENTING YOUR ALARA PROGRAM. IT IS SUGGESTED THAT WHEN SUCH LEVELS ARE EXCEEDED, A REVIEW OR INVESTIGATION FOLLOW. UNLESS YOUR ACCOUNT HAS SELECTED DIFFERING ALARA EXPOSURE LIMITS FOR SPECIFIC INDIVIDUALS OR GROUPS, THE FOLLOWING ARE THE VALUES FOR YOUR ACCOUNT.

| EXPOSURE TYPE: | INVESTIGATIONAL LEVELS (MREM) | | FOR A GIVEN QUARTER | | CUMULATIVE FOR THE YEAR | |
|---------------------|-------------------------------|---------|---------------------|---------|-------------------------|--|
| | LEVEL 1 | LEVEL 2 | LEVEL 1 | LEVEL 2 | | |
| WHOLE BODY DEEP: | 125 | 375 | 500 | 1500 | | |
| LENS OF EYE: | 375 | 1125 | 1500 | 4500 | | |
| WHOLE BODY SHALLOW: | 1250 | 3750 | 5000 | 15000 | | |
| EXTREMITY: | 1250 | 3750 | 5000 | 15000 | | |
| ORGAN: | 1250 | 3750 | 5000 | 15000 | | |

LEVELS IN THE REPORT ARE DEFINED AS:

1Q= EXCEEDS LEVEL 1 FOR THE QUARTER
2Q= EXCEEDS LEVEL 2 FOR THE QUARTER
1Y= EXCEEDS LEVEL 1 FOR THE YEAR
2Y= EXCEEDS LEVEL 2 FOR THE YEAR

ABBREVIATIONS USED IN THE REPORT ARE:

WB = WHOLE BODY
TEDE = TOTAL EFFECTIVE DOSE EQUIVALENT (WHEN INTERNAL DOSE IS PROVIDED)
DDE = DEEP DOSE EQUIVALENT
SDE = SHALLOW DOSE EQUIVALENT
LDE = LENS OF EYE DOSE EQUIVALENT
TODE = TOTAL ORGAN DOSE EQUIVALENT

PLEASE NOTE:

- COLLECTIVE DOSE EQUALS THE TOTAL MREM ACCUMULATED FOR ALL PARTICIPANTS.
- SHALLOW DOSE OR LENS OF EYE DOSE IS PRINTED ONLY WHEN IT DIFFERS FROM DEEP DOSE.
- M = MINIMAL, BLANK = NO DATA AVAILABLE FOR THAT PERIOD.
- EXPOSURES TO THE EMBRYO/FETUS ARE EXCLUDED FROM THIS REPORT.
- TOTAL ORGAN DOSE EQUIVALENT (TODE) IS SHOWN ONLY IN THE QUARTER'S ACCUMULATION COLUMN, AND IS FOR THE MAXIMALLY EXPOSED ORGAN FOR THE QUARTER.

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ALARA Recap

ALARA reports list all individuals with their exposure histories, and are available quarterly and annually. Quarterly reports show which individuals exceeded ALARA Levels 1 and 2 for the quarter and year to date, while annual reports quickly show trends by individuals and departments for the year. Reports track both individual and collective dose. ALARA levels can be set or NRC guidelines can be used.

ALARA is an acronym for "as low as is reasonably achievable." Used and defined by the NRC (Nuclear Regulatory Commission) and many other licensing agencies, an ALARA program's objective is to reduce occupational exposures and doses to members of the public as far below the specified limits as is reasonably achievable by means of good radiation safety planning and practice.