

|   | <u>Page</u> |
|---|-------------|
| <b>6. Special Facilities .....</b>  | 6.1-1       |
| <b>    6.1 Overview .....</b>   | 6.1-1       |
| <b>    6.2 Radon Gas and Radon/Thoron Progeny Facilities for Testing and Research .....</b> | 6.2-1       |
| 6.2.1 Scope .....   | 6.2-1       |
| 6.2.2 The EML Pulse Ionization Chamber Facility for Radon-222 Measurements .....            | 6.2-1       |
| 6.2.2.1 Introduction .....  | 6.2-1       |
| 6.2.2.2 Principle of Operation .....  | 6.2-2       |
| 6.2.2.3 Design .....  | 6.2-2       |
| 6.2.2.4 Procedure .....   | 6.2-2       |
| 6.2.2.5 Calibration .....   | 6.2-3       |
| 6.2.2.6 Routine Chamber Checks and Maintenance .....  | 6.2-3       |
| 6.2.3 Radon, Thoron, and Progeny Exposure Facility .....                                    | 6.2-4       |
| 6.2.3.1 Introduction .....  | 6.2-4       |
| 6.2.3.2 Description of the Exposure Facility .....  | 6.2-5       |
| <b>    6.3 Scanning Electron Microscope Facility .....</b>                                  | 6.3-1       |
| 6.3.1 Scope .....   | 6.3-1       |
| 6.3.2 Sample Preparation Room .....   | 6.3-1       |
| 6.3.3 Microscope Room .....   | 6.3-1       |
| 6.3.3.1 Scanning Electron Microscope .....  | 6.3-2       |
| 6.3.3.2 Microanalysis System .....  | 6.3-2       |
| 6.3.3.3 Sample Critical Point Drying and Coating Equipment .....                            | 6.3-3       |
| 6.3.4 Quality Control .....   | 6.3-4       |