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Overview of GHARAGTERIZATION for Nucl. Decommissioning 원전해김 용 수

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- DCGL_W
 - DCGL for radionuclide in a wide area.
 - Random or systemic sampling is required to obtain a representative concentration in a survey unit, which will be compared to DCGL_w through WRS or Sign test (w in DCGLw came from W in WRS test)
- DCGL_{EMC}
 - DCGL for radionuclide with elevated conc. in a small area (hot spot).
 - Judgmental sampling is required to identify the hot spot and to know its concentration which will be compared to DCGL_{EMC}.

Multi-Agency Radiation Survey and Site Investigation Manual (2002)

Historical Site Assessment

Scoping Survey

Characterization Survey

Remedial Action Support Survey

Final Status Survey

- 오염의 특성 및 범위 결정
 (HSA 및 오염범위조사 결과에 근거)
- 최종상태조사에의 입력자료 제공 (MARSSIM의 주요 목적)
- 부지의 오염도에 따른 지역 분류
- Remediation alternatives 평가
- 부지 고유 DCGL 계산을 위한 입력자료 제공



1. CHARACTERIZATION : CONCEPT

1.1 Characterization

The collection of all information needed to describe, in adequate detail, the following:

- The hazards present at/in the facility
- The condition of the facility structure as it may affect worker health and safety
- The extent, nature, and concentration of radiological and hazardous chemical contamination
- The institutional, legal, and technical restraints on decommissioning alternatives

Characterization is an iterative process that precedes and parallels actual decommissioning.

