
Index

- *
Allied General Nuclear Services (AGNS), 67, 68, 84
Atomic Energy Commission, 83, 84
- British Central Electricity Generating Board, 63
- Carter administration, 87, 92
- Congress:
committees involved in radioactive waste management, 34
Congressional Budget Office, 11
Joint Committee on Atomic Energy, 84, 86
- definitions, 26
- Department of Energy (DOE), 3-16, 28, 34, 39, 44, 50, 52, 54, 58, 61, 64, 69, 70, 71, 73, 78, 93, 103-111, 120, 123, 130, 137-141, 155-172, 179
Office of Civilian Radioactive Waste Management, 11, 159
- Department of Transportation (DOT), 34, 62, 63
- Environmental Protection Agency (EPA), 33, 44, 46, 48, 54
- Federal institutional issues, 155-172
Federal interagency coordination, 168
organization of the Federal Waste Management Agency, 158-168
alternative means of financing and management, 162
Office of Civilian Radioactive Waste Management, 11, 159
program funding, 155-158
- history of waste management, 83-96
development of Federal waste management policy and programs, 83
early history (1945-75), 83
recent history, 85
problems for waste management policy, 88
complicating factors, 90
key policy issues, 88
- Interagency Review Group, 87
- International Commission on Radiation Protection (ICRP), 30, 45
- legislation:
Energy Reorganization Act of 1974, 86
London Dumping Convention, 1972, 50
Nuclear Waste Policy Act of 1982 (NWPA), 3, 4, 6, 8-17, 28, 35, 55, 58, 99-111, 117, 132, 155, 182, 245, 264-326
Ocean Dumping Act, 50
- Major events in waste management history, 233-244
monitored retrievable storage (MRS), 3, 5, 15, 56, 104, 124, 334
- Mission Plan, 3, 12-17, 106, 115-151
achievable initial plan, 115
major advantages, 116
implementation program, 129-150
high-confidence siting plan, 132
present siting program, 129
waste management technology development program, 141
waste management plan, 117-129
repository loading schedule, 4, 12, 117
repository siting program, 4, 13
Technology Development Plan, 5, 14
- National Academy of Sciences, 63, 84
National Research Council, 69
National Waste Terminal Storage, 86
Nuclear Regulatory Commission (NRC), 5, 15, 30, 33, 34, 42, 43, 44, 48, 58, 63, 64, 69, 88, 91, 117, 130, 137
Nuclear Waste Policy Act of 1982, 8-17, 83, 99-111, 182, 245, 264-326
institutional measures, 11
radioactive waste management mission plan, 11
single-purpose Waste Management Office, 11
waste disposal fee, 11
relations with States and Indian Tribes, 10
impact compensation, 11
waste management policy, 8
final isolation of nuclear waste, 8
interim storage of spent fuel, 9
- Oak Ridge National Laboratory, 52
- performance requirements for a geologic repository, 327
policy analysis: NWPA, 99-111
key elements, 99-100
Nuclear Waste Policy Act, 101-111
procedure for establishing a repository for commercial nuclear waste, 329
- radioactive waste: its nature and management, 21-36
forms of radioactive waste, 24
institutional aspects of waste management, 33-36
Federal activities, 33
coordination and management, 34
funding, 34
policymaking, 33
regulation, 33
international activities, 36
non-Federal involvement, 35
public involvement, 35
nature of, 21-23
amounts of radioactive waste, 28
hazards of radioactive waste, 29
comparison of nuclear waste to uranium, 29
comparison of radioactive and other toxic waste, 32

- nuclear fuel cycle, 23
 - backend of fuel cycle, 25
 - front end of the fuel cycle, 24
 - reactor operation, 24
- nuclear reactions, 21
 - effects of radiation, 22
 - fission, 21
 - radioactivity, 21
- radioactive waste management policymaking, 199-232
 - acceptable safety levels for a geologic repository, 218
 - context of, 200
 - coping with interdependence, 227
 - defining radioactive waste, 204
 - Federal-State relationship, 221
 - linking reactor operation with the development of
 - techniques for radioactive waste disposal, 224
 - search strategy for sites, 212
 - storage, 206
 - utilizing knowledge of the Earth sciences, 209
 - waste package, 215
- Reagan administration, 88, 92
- Sandia National Laboratories, 63
- spent fuel projections, 331
- State and public concerns, 175-195
 - equity in siting waste facilities, 188
 - prevention and mitigation of impacts, 184
 - impact mitigation, 186
 - State concerns about safety, 184
 - public involvement, 190
 - States' concerns, 175
 - equity, 176
 - Federal credibility, 177
 - waste management impacts, 176
 - State involvement in waste management decisions, 177
 - facility siting decisions, 178-184
 - policy development and oversight, 177
- study of alternative institutional mechanisms, 3, 6, 16
- technology of waste management, 39-80
 - integrated waste management system, 73-80
 - interrelationships, 79
 - system impacts, 74
 - cost, 78
 - distribution of impacts, 79
 - health effects, 74
 - nonradiological impacts, 74
 - transportation, 76
- reprocessing, 67-73
 - for waste management, 68
 - effects of plutonium recycle, 71
 - operations and costs, 69
 - status of, 67
- waste disposal, 39-55
 - comparison of disposal, 53
 - ability to retrieve waste, 54
 - cost, 54
 - potential international complications, 54
 - relative degree of safety, 53
 - technology status, 53
 - type of waste, 54
 - mined geologic repositories, 39
 - cost, 49
 - safety, 44
 - technology, 39
 - other disposal technologies, 50
 - deep hole disposal, 51
 - ice sheets, 52
 - rock melting, 51
 - space, 52
 - subseabed disposal, 50
 - transmutation, 53
 - well injection, 51
- waste storage, 55-61
 - comparison of interim storage technologies, 58
 - cost, 60
 - flexibility, 59
 - safety, 58
 - status of technology development, 58
 - interim storage technology, 56
 - dry storage, 57
 - water-filled basins, 56
- waste transportation, 61-67
 - cost, 67
 - risk analyses, 64
 - safety, 62
- Tennessee Valley Authority (TVA), 58, 120
- U.S. Geological Survey, 138
- Waste management system issues resolved in NWPA, 245