

CHAPTER 12

INDEX

- 10-county area, 3-96, 3-97, 3-104
14-county area, 3-161, 3-166
200 Areas, 1-2, 1-13, 1-14, 1-30, 1-31, 1-32, 1-34, 1-36, 1-38, 2-5, 2-57, 2-60, 2-142, 2-143, 2-146–2-148, 2-157, 2-161, 2-162, 2-170, 2-173, 2-174, 2-179, 2-186, 2-189, 2-190, 2-195, 2-197, 2-198, 3-2, 3-4, 3-6, 3-9, 3-11, 3-13–3-17, 3-19, 3-22, 3-23, 3-25–3-28, 3-33, 3-35–3-38, 3-42–3-44, 3-46–3-49, 3-52, 3-53, 3-56, 3-63, 3-67, 3-68, 3-73, 3-75–3-78, 3-80, 3-90, 3-93, 3-96, 3-98–3-100, 3-104–3-106, 3-117, 3-178, 3-181, 3-184, 3-185, 4-6–4-16, 4-20–4-24, 4-26–4-28, 4-50, 4-55, 4-56, 4-65, 4-66, 4-68, 4-77, 4-80–4-105, 4-108, 4-129, 4-130, 4-132, 4-133, 4-135, 4-136, 4-138, 4-141, 4-142, 4-144–4-146, 4-150, 4-151, 4-154, 4-212, 4-256, 4-257, 4-259–4-262, 4-287, 4-291–4-294, 4-296–4-299, 4-347, 4-352–4-355, 4-362, 4-376, 4-377, 4-380–4-382, 4-384, 4-386, 4-388–4-391, 4-397, 4-429, 4-431, 5-372, 6-9, 6-11, 6-15, 6-28–6-30, 6-34, 6-35, 6-37, 6-38, 7-7, 7-13, 7-19, 7-26, 7-28–7-30, 7-35, 7-36, 7-57, 7-60, 7-62, 8-15
200-East Area, 1-5, 1-6, 1-10, 1-13, 1-19, 1-25, 1-26–1-28, 1-31, 1-32, 1-34, 1-36, 2-2, 2-5, 2-8, 2-11, 2-12, 2-14, 2-20, 2-21, 2-25–2-30, 2-33, 2-34, 2-38, 2-49, 2-51, 2-54–2-56, 2-58, 2-76, 2-80, 2-84, 2-85, 2-89, 2-90, 2-92, 2-93, 2-111, 2-114, 2-115, 2-117, 2-130–2-133, 2-137, 2-139, 2-141, 2-152, 2-195, 2-202, 2-204, 2-239, 2-241, 2-254, 2-269, 2-287–2-289, 2-296–2-298, 2-306, 2-307, 3-4, 3-14–3-16, 3-19, 3-24, 3-26, 3-31–3-34, 3-37, 3-38, 3-42, 3-44, 3-48, 3-49, 3-51–3-53, 3-56, 3-57, 3-63, 3-64, 3-68, 3-73, 3-76–3-78, 3-111, 3-114, 3-115, 4-2–4-4, 4-6–4-16, 4-51, 4-59–4-61, 4-63, 4-65, 4-67, 4-68, 4-77, 4-81–4-96, 4-102, 4-130–4-155, 4-164–4-175, 4-177, 4-179, 4-180, 4-214–4-216, 4-222, 4-224, 4-227, 4-230, 4-233, 4-236, 4-239, 4-242, 4-243, 4-246, 4-247, 4-250, 4-352, 4-353, 4-356, 4-359, 4-361, 4-362, 4-368, 4-376, 4-380, 4-384, 4-385, 4-387, 4-389, 4-391, 4-392, 4-397, 4-405, 4-412, 4-416, 4-422, 4-423, 4-426, 4-429, 4-433, 4-442, 4-446, 5-49, 5-118, 5-1305-396, 5-401, 5-403–5-405, 5-419, 5-420, 5-422–5-425, 5-432, 5-448–5-450, 5-457, 5-474–5-476, 5-483, 5-499–5-503, 5-511, 5-527–5-530, 5-537, 5-552–5-557, 5-570–5-573, 5-581, 5-596–5-599, 5-603, 5-613–5-616, 5-621, 5-640–5-643, 5-648, 5-667–5-674, 5-681, 5-719, 5-721–5-723, 5-730, 5-735, 5-751–5-754, 5-761, 5-765, 5-781–5-784, 5-791, 5-812–5-815, 5-822, 5-844–5-847, 5-854, 5-875–5-878, 5-882, 5-903–5-906, 5-913, 5-933–5-936, 5-940, 5-943, 5-958–5-961, 5-970, 5-987–5-990, 5-1000, 5-1018–5-1021, 5-1031, 5-1033, 5-1049–5-1052, 5-1061, 5-1081, 5-1084, 5-1085, 5-1087, 5-1088, 5-1090, 5-1091, 5-1093, 5-1094, 5-1096, 5-1097, 5-1099, 5-1100, 5-1102, 5-1103, 5-1105, 5-1106, 5-1109–5-1111, 5-1114, 5-1115, 5-1119, 5-1123, 5-1127, 5-1131, 5-1135, 5-1139, 5-1143, 5-1147, 5-1153, 5-1154, 5-1160, 5-1161, 5-1163, 5-1168, 6-4, 6-35, 6-36, 6-38, 6-87, 6-126, 7-13, 7-15–7-17, 7-26, 7-31, 7-49, 7-62, 8-12, 8-28
200-West Area, 1-13, 1-19, 1-25–1-29, 1-31, 1-33, 1-35, 1-36, 2-2, 2-5, 2-7, 2-11, 2-13, 2-20, 2-21, 2-25–2-28, 2-33, 2-34, 2-36, 2-37, 2-46, 2-49, 2-50, 2-56, 2-58, 2-64–2-66, 2-69, 2-73, 2-76, 2-77, 2-80, 2-81, 2-84, 2-85, 2-88, 2-89, 2-91–2-94, 2-97, 2-101, 2-107, 2-110, 2-111, 2-113–2-115, 2-120, 2-130–2-133, 2-136, 2-137, 2-139, 2-141, 2-162, 2-172, 2-173, 2-179, 2-181, 2-182, 2-189, 2-191, 2-195, 2-204, 2-242, 2-269, 2-287, 2-288, 2-296, 2-297, 2-306, 2-307, 3-4, 3-7, 3-9, 3-11, 3-13–3-19, 3-23, 3-24, 3-26, 3-27, 3-33, 3-34, 3-37, 3-38, 3-42, 3-44, 3-46, 3-48, 3-49, 3-51–3-53, 3-56, 3-63, 3-65, 3-73, 3-75–3-77, 3-80, 3-94, 3-111, 3-112, 3-114, 3-116, 3-179, 4-1–4-3, 4-5–4-16, 4-28–4-32, 4-51, 4-54–4-61, 4-63, 4-65, 4-67, 4-68, 4-77, 4-81–4-84, 4-86–4-104, 4-108, 4-115, 4-116, 4-130–4-159, 4-161, 4-162, 4-164–4-167, 4-169, 4-170, 4-172–4-175, 4-181, 4-182, 4-214, 4-216, 4-222, 4-224, 4-225, 4-227, 4-228, 4-230, 4-231, 4-233, 4-234, 4-236, 4-237, 4-239–4-243, 4-245–4-247, 4-249, 4-250, 4-259, 4-261, 4-281, 4-282, 4-287, 4-288, 4-292, 4-294, 4-298, 4-299, 4-310, 4-312, 4-316–4-318, 4-347, 4-352–4-356, 4-359–4-361, 4-363, 4-371, 4-376, 4-378, 4-380, 4-381, 4-383–4-392, 4-394, 4-401, 4-403, 4-404, 4-406–4-408, 4-411, 4-414, 4-418, 4-422, 4-425, 4-429, 4-433, 4-436, 4-437, 4-446, 5-3, 5-15, 5-46, 5-80, 5-151, 5-194, 5-258, 5-396, 5-401, 5-420, 5-719, 5-724–5-726, 5-730, 5-754–5-757, 5-761, 5-785–5-787, 5-791, 5-815–5-818, 5-822, 5-847–5-850, 5-854, 5-878–5-882, 5-906–5-909, 5-913, 5-936–5-940, 5-961–5-964, 5-970, 5-990–5-993, 5-1000, 5-1021–5-1024, 5-1031, 5-1052–5-1055, 5-1061, 5-1116, 5-1119, 5-1120, 5-1124, 5-1128, 5-1132, 5-1136, 5-1140, 5-1144, 5-1148, 5-1155, 5-1165, 5-1177, 5-1179, 5-1204, 5-1235, 6-23, 6-35, 6-36, 6-51, 6-67, 6-70, 6-86, 6-106, 6-109, 6-125, 6-145, 6-148, 6-171, 7-8, 7-15, 7-16, 7-21, 7-46, 7-49, 7-61
24 Command Fire, 1-4, 3-7, 3-11, 3-12, 3-31, 3-58, 3-61–3-63, 3-67, 3-73, 3-75, 3-76, 3-94, 3-178, 7-17
242-A Evaporator, 2-5, 2-11, 2-30, 2-69, 2-72, 2-76, 2-79, 2-83, 2-88, 2-93, 2-97, 2-100, 2-103, 3-23, 3-44, 3-51, 3-110, 3-111, 3-115, 4-3, 4-38, 4-47, 4-67, 4-69–4-73, 4-75, 4-76, 4-78, 4-79, 4-130, 4-132–4-134, 4-136, 4-138–4-145, 4-148, 4-149, 4-152–4-155
400 Area, 1-8, 1-14, 1-21, 1-30–1-33, 1-36, 1-38, 1-42, 2-38, 2-39, 2-41, 2-43, 2-46, 2-58, 2-106, 2-107, 2-110–2-114, 2-134–2-136, 2-170, 2-173, 2-174, 2-179, 2-181, 2-182, 3-2, 3-4–3-6, 3-9, 3-12–3-17, 3-19–3-21, 3-24, 3-27, 3-38, 3-41–3-44, 3-46, 3-48, 3-52, 3-57, 3-63, 3-67, 3-68, 3-74, 3-76, 3-78–3-80, 3-90, 3-96, 3-101–3-103, 3-105, 3-107, 3-108, 3-116, 3-180, 3-185, 3-186, 4-256–4-262, 4-264–4-268, 4-275, 4-278, 4-279, 4-281–4-301, 4-317, 4-319, 4-320, 4-322, 4-335, 4-337, 4-344, 4-347, 4-351, 4-362, 5-371, 5-384, 6-9, 6-10, 7-7, 7-17, 7-23, 7-42, 7-58–7-60, 8-10, 8-21, 8-28

A

accelerated process line (APL), 3-112
accident, *see also* historical shipment, transportation, transportation impact
 accident risk, 2-150, 2-151, 2-155, 2-176, 2-178, 2-192, 2-194, 4-157, 4-161, 4-163, 4-165, 4-168, 4-171, 4-173, 4-176, 4-178, 4-180, 4-184, 4-316, 4-319, 4-320, 4-322, 4-326, 4-330, 4-331, 4-333, 4-409, 4-413, 4-415
 accident scenario, 2-150, 2-176, 2-192, 4-156, 4-160, 4-183, 4-315, 4-318, 4-323, 4-325, 4-402, 4-405, 4-408, 4-417, 4-418
 design-basis accident, 4-55, 4-403, 4-404, 4-406, 4-407
 severe accident, 2-150, 4-156, 4-183, 4-330
 transportation accident, 2-151, 2-177, 2-193, 4-184, 4-188-4-195, 4-326, 4-330, 4-331, 4-333, 4-408, 4-411, 4-413, 4-414
activation
 activation product, 2-42, 3-48
active fault, 3-37, 3-38, *see also* earthquake
Acute Exposure Guideline Level (AEGL), 4-160, 4-318, 4-405
 AEGL-2, 4-160, 4-405
 AEGL-3, 4-160
administrative control, 1-21, 1-23, 1-24, 1-30, 2-59, 2-60, 2-62-2-64, 2-66, 2-106, 2-107, 2-117, 2-138, 2-142, 2-148, 2-149, 2-153, 2-170, 2-203, 2-300, 3-89, 3-91, 3-94, 3-158, 4-1, 4-6, 4-7, 4-16, 4-19, 4-20, 4-55, 4-65, 4-68, 4-80, 4-106-4-108, 4-130, 4-131, 4-133, 4-134, 4-136, 4-137, 4-140, 4-141, 4-143, 4-145, 4-148, 4-149, 4-152-4-154, 4-182, 4-187, 4-216, 4-219, 4-221, 4-264, 4-265, 4-274, 4-279, 4-285, 4-286, 4-309, 4-344, 4-350, 4-398-4-401, 4-429, 4-441, 5-2, 5-3, 5-5, 5-7, 5-8, 5-34, 5-35, 5-39, 5-69, 5-73, 5-105, 5-140, 5-141, 5-143, 5-172, 5-173, 5-178, 5-181, 5-239, 5-243, 5-246, 5-304, 5-310, 5-372, 6-14, 6-15, 6-41, 7-3, 7-15, 7-25, 7-34, 7-41, 7-45, 7-46, 7-54, 7-55, 7-57, 7-58, 7-60, 7-61, 7-63
 Administrative Control Level, 2-149, 2-192, 3-89, 3-158, 4-130, 4-132-4-145, 4-148, 4-149, 4-152-4-155, 4-309, 4-396, 4-398, 4-399, 4-441, 7-5, 7-20
Advanced Test Reactor (ATR), 3-136, 3-137, 3-181
AERMOD, 3-23
affected environment, 1-42, 3-1, 3-2, 3-173, 4-396, 6-2, 6-4, 7-1
air pollutant, *see also* air quality, criteria pollutant, emission, National Ambient Air Quality Standards, National Emission Standards on Hazardous Air Pollutants, pollutant
 ambient air pollutant, 3-22, 3-23, 3-129
 hazardous air pollutant, 7-10, 8-7, 8-8
 toxic air pollutant, 2-145, 2-172, 2-188, 2-313, 3-19, 3-23, 3-26, 3-27, 3-190, 4-275, 4-278, 4-452, 4-453, 7-25, 8-8
air quality, *see also* air pollutant, criteria pollutant, emission, National Ambient Air Quality Standards, National Emission Standards on Hazardous Air Pollutants, pollutant
 air quality control region, 3-2, 3-21
 air quality impact, 2-144, 2-169, 2-171, 2-185, 2-187, 2-188, 2-202, 3-21, 3-24, 4-32, 4-38, 4-39, 4-197-

4-201, 4-203-4-205, 4-207-4-210, 4-212, 4-270, 4-335, 4-337-4-342, 4-363, 4-416, 4-418, 4-443, 7-25
ambient air, 3-21-3-23, 3-25, 3-26, 3-128-3-130, 3-187, 3-189-3-191, 4-271, 4-276, 4-364, 4-452, 7-3, 7-4, 8-2, 8-7, 8-8
ambient air concentration, 3-25, 3-130
ambient air quality standard, 3-21-3-23, 3-26, 3-128-3-130, 3-187, 3-189-3-191, 4-271, 4-276, 4-364, 4-452, 7-4, 8-2, 8-7, 8-8
alpha activity, 3-43
 alpha particle, 8-10
alternative combination, 2-59, 2-128, 4-1, 4-426-4-429, 4-431-4-439, 4-442-4-444, 4-447, 5-1, 5-1168-5-1263, 5-1264, 5-1266, 5-1267, 5-1269-5-1272, 6-1-6-3, 6-6, 6-7, 6-9-6-28, 6-31-6-36, 6-39-6-50, 6-52-6-85, 6-87-6-154, 6-158-6-171, 6-173, 7-12, 7-22, 7-23, 7-28-7-33, 7-51-7-53, 7-63-7-65
ambient standard, 2-144, 2-171, 2-187, 3-22, 3-23, 3-26, 3-128-3-130, 3-191, 4-32, 4-33, 4-270, 4-271, 4-363, 4-364, 4-432
American Indian, 1-17, 1-43, 2-147, 2-162, 2-163, 2-174, 2-182, 2-190, 2-199, 2-215, 2-229, 2-237, 2-285, 3-1, 3-9, 3-74, 3-75, 3-77, 3-79, 3-80, 3-82, 3-95-3-98, 3-101, 3-151, 3-152, 3-154, 3-161-3-163, 4-7, 4-13, 4-16, 4-96-4-105, 4-196-4-212, 4-297, 4-299, 4-300, 4-302, 4-334-4-342, 4-354, 4-355, 4-389, 4-391, 4-415-4-419, 4-428, 4-437, 4-443, 5-303, 5-305, 5-307, 5-309-5-311, 5-313, 5-315, 5-316, 5-318, 5-320, 5-322, 5-324, 5-326, 5-328, 5-331, 5-333, 5-335, 5-337, 5-339, 5-341, 5-344, 5-346, 5-348, 5-351, 5-353, 5-355, 5-357, 5-359, 5-361, 5-370, 5-385, 5-387, 5-389, 5-395, 5-1078, 5-1080, 5-1083, 5-1086, 5-1088, 5-1089, 5-1091, 5-1092, 5-1094, 5-1095, 5-1097, 5-1098, 5-1101, 5-1104, 5-1106, 5-1107, 5-1108, 5-1111-5-1113, 5-1116, 5-1118, 5-1120, 5-1122, 5-1124, 5-1126, 5-1128, 5-1130, 5-1132, 5-1134, 5-1136, 5-1138, 5-1140, 5-1142, 5-1144, 5-1146, 5-1148, 5-1150, 5-1152, 5-1155, 5-1157, 5-1159, 5-1167, 5-1259, 5-1260, 5-1261, 5-1263, 5-1264, 5-1266, 5-1267, 5-1272, 6-9, 6-22-6-24, 6-155-6-163, 6-170, 6-171, 7-18, 7-20, 7-21, 7-26, 7-31, 8-1, 8-3, 8-4, 8-20-8-22, 8-30, 8-31
American Indian hunter-gatherer, 2-215, 5-303, 5-370, 5-385, 5-395, 5-1078, 5-1167, 5-1260, 5-1272, 6-156, 6-158, 6-160, 6-162, 6-170, 6-171, 7-20, 7-21
American Indian interest, 2-147, 2-162, 2-163, 2-174, 2-182, 2-190, 2-199, 4-96-4-102, 4-104, 4-105, 4-297, 4-299, 4-300, 4-302, 4-389, 4-391, 6-22, 6-24
Nez Perce, 3-7, 3-95, 8-23
American Indian resident farmer, 2-215, 2-229, 2-237, 2-285, 5-303, 5-310, 5-316, 5-370, 5-385, 5-395, 5-1078, 5-1088, 5-1091, 5-1094, 5-1097, 5-1106, 5-1111, 5-1116, 5-1120, 5-1124, 5-1128, 5-1132, 5-1136, 5-1140, 5-1144, 5-1148, 5-1155, 5-1167, 5-1259, 5-1260, 5-1263, 5-1266, 5-1272, 6-155, 6-156, 6-158, 6-160, 6-162, 6-170, 6-171, 7-21
American Indian Tribal Government, 8-4, 8-22, 8-30, 8-31
Umatilla, 3-7, 3-20, 3-95, 3-96, 6-7, 6-8, 6-174, 8-22, 8-23

- Yakama, 3-95, 4-196, 4-198–4-202, 4-204–4-207, 4-209–4-211, 4-335–4-337, 4-340, 4-342, 4-417, 4-418, 4-443, 8-22, 8-23
- amphibian, 3-80, 3-147
- anadromous, 3-68
- ancillary equipment, 1-24, 1-26–1-30, 2-1, 2-4, 2-5, 2-32–2-35, 2-56, 2-73, 2-77, 2-81, 2-85, 2-86, 2-89, 2-93, 2-95, 2-97, 2-98, 2-101, 2-104, 2-115, 2-133, 2-134, 2-137, 2-141, 2-203, 2-215, 2-220, 2-222, 2-286, 2-292, 2-293, 2-308, 4-51, 4-56, 4-59–4-63, 4-69–4-72, 4-80, 4-119, 4-213, 4-223, 4-225, 4-226, 4-228, 4-229, 4-231, 4-232, 4-234, 4-240, 4-241, 4-244, 4-245, 4-248, 4-249, 4-251, 5-69, 5-173, 5-238, 5-303, 5-323, 5-336, 5-342, 5-362, 7-15, 7-36, 8-18, 8-29
- ancillary equipment removal, 2-34, 2-133, 4-241, 4-245
- animals, 2-147, 2-174, 2-190, 3-58, 3-61, 3-62, 3-68, 3-69, 3-72–3-74, 3-121, 3-147, 3-150, 4-81–4-88, 4-90, 4-129, 4-308, 4-396, 5-303, 5-1078, 5-1260, 6-22, 7-6, 7-24, 7-26, *see also* plants, terrestrial resource
- annual average daily traffic (AADT), 3-156
- aquatic resource, 2-146, 2-147, 2-161, 2-174, 2-182, 2-190, 2-198, 3-58, 3-67, 3-69, 3-149, 4-80, 4-82, 4-84–4-89, 4-91, 4-93, 4-94, 4-291, 4-293, 4-295, 4-385, 4-387, 4-435, 5-362, 5-391, 5-1162, 5-1269, 6-19, 7-26, *see also*, groundwater, surface water, water
- archaeological resource, 3-75–3-77, 3-151, 3-189, 4-95, 8-3, 8-20
- archaeological site, 3-75, 3-77, 3-80, 3-151–3-153, 8-30
- Argonne National Laboratory (ANL), 1-9, 1-22, 1-36, 1-45, 2-47, 2-48, 2-308, 3-123, 3-125, 3-126, 3-133, 3-136, 3-137, 3-142–3-144, 3-146, 3-156, 3-173, 4-282–4-284, 4-288, 4-289, 4-448, 4-451, 8-28, 8-29, 8-32
- Argonne National Laboratory-West (ANL-W), 1-9, 1-22, 1-36, 1-45, 2-47, 2-48, 2-308, 3-123, 3-173, 4-282–4-284, 4-288, 4-289, 4-448, 8-28, 8-29, 8-32
- as low as is reasonably achievable (ALARA), 3-89, 3-158, 7-4, 7-5, 7-6, 7-20, 8-24
- Atomic Energy Act, 1-3, 1-7, 1-50, 2-31, 2-34, 2-313, 8-1, 8-3, 8-16
- Atomic Energy Commission (AEC), 1-33, 1-44,
- atomic number, 1-2
- available capacity, 7-9, 7-19
- B**
- backfill, 2-42, 2-43, 2-145, 2-172, 2-292, 2-294, 4-50, 4-52, 4-53, 4-60, 4-61, 4-259, 4-260, 4-280, 4-282, 4-291, 4-293, 4-295, 4-344, 4-374, 4-375, 4-432, 6-15, 7-12, 7-24, 7-36, 7-43, 7-52
- barrier, 1-13, 1-14, 1-28, 1-30, 2-5, 2-32–2-34, 2-42, 2-43, 2-57, 2-61, 2-73, 2-77, 2-81, 2-85, 2-86, 2-89, 2-105, 2-112, 2-126, 2-127, 2-133, 2-135, 2-145, 2-172, 2-181, 2-229–2-234, 2-237, 2-238, 2-251, 2-285, 2-288, 2-290, 2-293, 2-296–2-298, 3-114, 3-115, 4-2, 4-3, 4-8, 4-12–4-14, 4-16, 4-40–4-44, 4-49, 4-51, 4-54, 4-56, 4-60, 4-61, 4-69, 4-70, 4-72–4-75, 4-80, 4-91, 4-92, 4-112, 4-121, 4-129, 4-259–4-262, 4-280, 4-281, 4-285–4-287, 4-290, 4-291, 4-294, 4-297, 4-347, 4-377, 4-380, 4-382, 5-2, 5-9, 5-40, 5-69, 5-74, 5-110, 5-145, 5-182, 5-247, 5-380, 5-388, 5-402, 5-428, 5-454, 5-479, 5-506, 5-534, 5-556, 5-569, 5-577, 5-595, 5-600, 5-612, 5-620, 5-639, 5-647, 5-666, 5-681, 5-719, 5-730, 5-750, 5-761, 5-780, 5-791, 5-811, 5-822, 5-843, 5-854, 5-874, 5-882, 5-902, 5-912, 5-932, 5-939, 5-957, 5-967, 5-986, 5-996, 5-1017, 5-1027, 5-1048, 5-1058, 5-1079, 5-1091, 5-1171, 5-1199, 5-1229, 6-29, 6-38, 6-44, 6-79, 6-118, 7-14, 7-22, 7-34, 7-35, 7-43, 7-47, 7-51, 7-54, 7-58–7-62
- barrier boundary, 2-229, 2-237, 2-296
- barrier lobe, 2-34, 4-51, 4-61
- Hanford barrier, 1-13, 1-28, 2-33, 2-37, 2-91, 2-93, 2-133, 2-134, 2-221, 2-292, 2-293, 4-12, 4-44, 4-53, 4-54, 4-61, 4-75, 5-140, 5-330, 7-14, 7-21
- modified RCRA Subtitle C barrier, 1-13, 1-25, 1-26, 1-27, 1-30, 1-33, 2-31–2-34, 2-43, 2-57, 2-62, 2-70, 2-73, 2-74, 2-77, 2-78, 2-81, 2-82, 2-85, 2-86, 2-89, 2-95, 2-97, 2-98, 2-101, 2-102, 2-104, 2-107, 2-109, 2-117, 2-120, 2-124, 2-127, 2-129, 2-133, 2-134, 2-138, 2-144, 2-153, 2-154, 2-170, 2-172, 2-173, 2-189, 2-190, 2-219, 2-220, 2-222, 2-224, 2-292, 2-293, 2-308, 4-8–4-11, 4-15, 4-32, 4-39–4-43, 4-45, 4-47, 4-49, 4-54, 4-56, 4-61, 4-62, 4-65, 4-69–4-76, 4-79, 4-80, 4-110, 4-114, 4-119, 4-124, 4-127, 4-137, 4-140, 4-141, 4-214, 4-216, 4-217, 4-259, 4-260, 4-274, 4-281, 4-287, 4-297, 4-344, 4-354–4-356, 4-360, 4-361, 4-377–4-379, 4-382, 4-384, 4-389, 4-390, 4-422, 4-423, 5-69, 5-102–5-105, 5-173, 5-174, 5-194, 5-238, 5-240, 5-302, 5-317, 5-323, 5-336, 5-349, 5-420, 5-446, 5-472, 5-498, 5-526, 5-551, 7-21
- subsurface barrier, 2-126
- surface barrier, 1-28, 2-32, 2-33, 2-34, 2-126, 4-1, 4-17, 4-20–4-25, 4-27, 4-56, 4-265, 4-267, 5-3, 7-3, 7-5, 7-10, 7-14, 7-15, 7-17, 7-22, 7-35, 7-42, 7-47, 7-55, 8-14
- beryllium, 3-42
- best available technology (BAT), 3-51, 7-20, 7-25
- best management practice (BMP), 2-172, 2-189, 4-51, 4-56, 4-66, 4-281–4-285, 4-376, 4-377, 4-434, 6-19, 7-1, 7-3, 7-8, 7-12, 8-29
- bioaccumulation factor (BAF), 6-166
- biodiversity, 3-61
- block group, 3-99–3-101, 3-105–3-108, 3-163, 3-165, 3-167, 3-168, 4-335, 4-337
- borrow area, 1-38, 1-45, 2-37, 2-142, 2-143, 2-146, 2-147, 2-156, 2-157, 2-159, 2-160–2-163, 2-170, 2-172, 2-174, 2-179, 2-181, 2-182, 2-186, 2-188–2-191, 2-195, 2-198, 2-199, 2-292, 3-2, 3-6, 3-10, 3-12, 3-14–3-16, 3-18, 3-19, 3-27, 3-34, 3-38, 3-46, 3-48, 3-57, 3-63, 3-66, 3-67, 3-69, 3-74, 3-76, 3-79, 3-80, 3-81, 3-176, 3-183, 4-6–4-16, 4-20–4-23, 4-38, 4-39, 4-41, 4-42, 4-48, 4-51, 4-53–4-66, 4-80, 4-82–4-102, 4-104, 4-105, 4-257, 4-259, 4-260, 4-262, 4-280, 4-281, 4-282, 4-284, 4-285, 4-291–4-293, 4-295, 4-296, 4-298, 4-299, 4-301, 4-352–4-356, 4-374–4-379, 4-384–4-391, 4-427–4-429, 4-432–4-437, 4-449, 6-9, 6-13–6-18, 6-23, 6-175, 7-5, 7-7–7-9, 7-11–7-13, 7-17–7-19, 7-23–7-26, 7-28–7-31, 7-34–7-36, 7-42, 7-43, 7-46–7-48, 7-51, 7-55, 7-58, 7-61, 7-63, 8-21
- Borrow Area C, 1-38, 2-37, 2-142, 2-143, 2-146, 2-147, 2-156, 2-157, 2-159, 2-160–2-163, 2-170, 2-172, 2-174, 2-179, 2-181, 2-182, 2-186, 2-188, 2-189,

- 2-190, 2-191, 2-195, 2-198, 2-199, 2-292, 3-2, 3-6, 3-10, 3-12, 3-14-3-16, 3-18, 3-19, 3-27, 3-34, 3-38, 3-46, 3-48, 3-57, 3-63, 3-66, 3-67, 3-69, 3-74, 3-76, 3-79, 3-80, 3-81, 3-183, 4-6-4-16, 4-20-4-23, 4-38, 4-39, 4-41, 4-42, 4-48, 4-51, 4-53-4-66, 4-80, 4-82-4-102, 4-104, 4-105, 4-257, 4-259, 4-260, 4-262, 4-280-4-282, 4-284, 4-285, 4-291-4-293, 4-295, 4-296, 4-298, 4-299, 4-301, 4-352-4-356, 4-374-4-379, 4-384-4-391, 4-427-4-429, 4-432-4-437, 6-9, 6-16-6-18, 6-23, 7-5, 7-7, 7-8, 7-9, 7-11-7-13, 7-17-7-19, 7-23-7-26, 7-28-7-31, 7-35, 7-36, 7-42, 7-43, 7-47, 7-48, 7-51, 7-55, 7-58, 7-61, 7-63, 8-21
- borrow pit, 3-184, 4-9, 6-15, 6-23
- borrow site, 3-34, 4-54, 4-433, 6-23, 6-176
- British Nuclear Fuels Limited (BNFL), 3-171
- bulk sodium, 1-1, 1-11, 1-21, 1-22, 1-31, 1-32, 2-1, 2-42, 2-46-2-48, 2-58, 2-61, 2-107, 2-108, 2-110-2-112, 2-114, 2-126, 2-127, 2-134, 2-136, 2-142, 2-170, 2-174-2-178, 2-185, 2-235, 2-294, 2-305, 2-308, 4-1, 4-256, 4-257, 4-259, 4-262, 4-263, 4-266, 4-271, 4-273-4-275, 4-277-4-279, 4-281, 4-289, 4-295-4-297, 4-299, 4-304, 4-306, 4-308, 4-310, 4-311, 4-313-4-316, 4-318, 4-322, 4-323, 4-326, 4-328-4-330, 4-332, 4-340, 4-341, 4-343, 4-344, 4-347, 4-348, 4-404, 5-1, 5-371, 5-372, 5-390, 5-393, 5-394, 7-25, 7-41, 7-43, 7-58-7-60, 8-25, *see also* sodium
- disposition of bulk sodium, 2-61, 2-105, 2-109, 2-110, 2-112, 2-114, 2-136, 2-173-2-175, 2-294, 2-304, 2-305, 4-264, 4-269, 4-274, 4-277, 4-302-4-304, 4-306, 4-323, 4-325-4-329, 4-333, 4-339-4-341, 4-348, 4-349, 4-426, 4-442, 5-372
- Hanford Reuse Option, 1-21, 1-31, 2-47, 2-62, 2-111, 2-114, 2-136, 2-170, 2-173-2-177, 2-179-2-185, 2-304, 2-305, 4-256, 4-260-4-264, 4-266-4-270, 4-275, 4-278, 4-280, 4-283-4-285, 4-288-4-290, 4-292-4-296, 4-298-4-307, 4-310-4-315, 4-322-4-325, 4-329-4-334, 4-339, 4-342, 4-346-4-349, 4-351, 4-426, 4-428, 4-430, 4-432, 4-433, 4-435, 4-438, 4-440-4-442, 4-445, 4-448, 5-372, 5-390, 5-393, 5-1168
- Idaho Reuse Option, 1-21, 1-31, 2-48, 2-62, 2-111, 2-114, 2-136, 2-171, 2-173-2-176, 2-179-2-185, 2-304, 2-305, 4-256, 4-260-4-264, 4-267-4-270, 4-275, 4-279, 4-280, 4-284, 4-285, 4-289, 4-291-4-296, 4-298-4-307, 4-310-4-315, 4-322-4-326, 4-330-4-334, 4-340, 4-343, 4-346-4-349, 4-351, 5-372, 5-390, 5-393, 5-394
- bulk vitrification, 1-19, 1-25-1-28, 1-39, 2-25, 2-28, 2-31, 2-73, 2-76, 2-77, 2-85, 2-88-2-90, 2-92, 2-93, 2-124, 2-130-2-133, 2-140, 2-141, 2-167, 2-249, 2-256, 2-259, 2-261, 2-270, 2-274, 2-276, 2-287, 2-288, 3-111, 4-21, 4-22, 4-57, 4-58, 4-115, 4-116, 4-164, 4-165, 4-172-4-175, 4-212, 4-214, 4-220, 4-226, 4-227, 4-236, 4-238, 4-239, 5-397, 5-398, 5-399, 5-400, 5-446, 5-447, 5-526, 5-527, 5-551, 5-552, 5-750, 5-751, 5-843, 5-844, 5-874, 5-875, 5-1085, 5-1094, 5-1097, 5-1120, 5-1132, 5-1136, 7-11, 7-16, 7-25, 7-37, 7-39, 7-40, *see also* supplemental treatment, vitrification
- Bulk Vitrification Facilities, 2-26, 2-73, 2-85, 2-91, 3-25, 4-9, 4-10, 4-70, 4-114-4-116, 4-137
- Bulk Vitrification Facility, 2-26, 2-85, 2-91, 2-92, 4-2, 4-40, 4-43, 4-44, 4-53, 4-57, 4-59, 4-60, 4-119, 4-121, 4-144, 4-214, 7-16
- bulk vitrification system, 2-54
- burial ground, 1-34, 1-35, 2-49, 2-52, 2-55, 2-115, 2-202, 2-251, 2-252, 2-295, 2-296, 2-309, 3-46, 3-52, 3-53, 3-174, 3-176, 3-177, 3-183, 4-187-4-195, 4-328, 4-332, 4-411, 4-412, 4-414, 5-401, 5-1079, 6-5, 6-30, 6-35-6-37, 6-176, 7-6
- Burial Ground 218-W-5, 2-52, 2-295, 2-296
- low-level radioactive waste burial ground (LLBG), 1-32, 1-33, 2-49, 2-55, 2-62, 2-115, 2-117, 2-120, 2-123, 2-186, 2-188, 2-189, 2-194, 2-237, 2-251, 2-252, 2-295, 2-308, 3-4, 3-112-3-114, 3-116, 3-174, 4-217, 4-219, 4-257, 4-259, 4-260, 4-262, 4-291, 4-296, 4-344, 4-352, 4-357, 4-360, 4-374, 4-377-4-384, 4-388, 4-396, 4-398-4-401, 4-420, 4-422, 4-423, 4-425, 5-396, 5-397, 5-401, 5-402, 5-420, 5-1078, 5-1079, 5-1162, 6-34, 6-35, 6-38, 6-179, 7-4, 7-6, 7-8, 7-21, 7-32, 7-46, 7-60, 7-61, 7-63
- burned area, 7-17
- byproduct material, 8-11
- ## C
- caisson, 6-30
- cancer, 2-148, 2-169, 2-185, 2-202, 2-214, 2-217-2-222, 2-224, 2-232, 2-234, 2-251, 2-252, 2-255, 2-256, 2-258-2-262, 2-264, 2-265, 2-267, 2-270-2-272, 2-274-2-279, 2-281, 3-87-3-93, 3-158-3-160, 3-174, 3-181, 3-186, 4-35, 4-37, 4-131-4-159, 4-161, 4-162, 4-164-4-167, 4-169, 4-170, 4-172-4-175, 4-177, 4-179-4-182, 4-186, 4-188-4-192, 4-272, 4-273, 4-309, 4-310, 4-312, 4-314, 4-315, 4-317, 4-319-4-323, 4-327, 4-365, 4-367, 4-397-4-407, 4-409, 4-410, 4-412, 4-440-4-443, 5-303, 5-384, 5-385, 5-1078, 5-1259, 5-1272, 6-27, 6-28, 6-31, 6-32, 6-34, 6-155, 7-32, *see also* latent cancer fatality
- carcinogen, 3-90
- candidate species, 4-81, 4-386
- canister, 1-29, 1-36, 2-12, 2-97, 2-129, 2-141, 2-151, 2-307, 3-63, 4-2, 4-3, 4-6, 4-61, 4-95, 4-127, 4-158, 4-159, 4-161, 4-162, 4-164-4-167, 4-169, 4-170, 4-172-4-175, 4-177, 4-179-4-182, 4-213, 4-219, 4-444, 7-23, 7-28, 7-30, 7-63, 8-29
- Canister Storage Building (CSB), 1-36, 2-12, 2-31, 2-69, 2-72, 2-77, 2-80, 2-84, 2-89, 2-93, 2-97, 2-100, 2-104, 4-2, 4-3, 4-6, 4-95, 4-127, 4-219, 4-444, 7-23, 7-28, 7-30, 7-63
- cap, *see* barrier
- capable fault, *see* earthquake
- capacity, 1-6, 1-11-1-13, 1-18, 1-19, 1-23-1-29, 1-32, 1-35, 2-5, 2-9, 2-10, 2-23, 2-25, 2-29, 2-49, 2-53, 2-55, 2-56, 2-62, 2-63, 2-65, 2-66, 2-72, 2-73, 2-76, 2-80, 2-84, 2-88, 2-92-2-94, 2-96, 2-99, 2-103, 2-115, 2-117, 2-120, 2-122-2-124, 2-130, 2-139, 2-141-2-143, 2-146, 2-151-2-154, 2-160, 2-170, 2-177, 2-186, 2-190, 2-193, 2-197, 2-286, 2-287, 2-295, 2-296, 2-307, 3-12-3-15, 3-17, 3-51, 3-84, 3-86, 3-111, 3-112, 3-114, 3-115, 3-117, 3-124, 3-126, 3-142, 3-146, 3-169-3-172, 4-7, 4-12, 4-14-

- 4-16, 4-19–4-27, 4-56, 4-61, 4-63, 4-65, 4-68–4-72, 4-74–4-76, 4-78, 4-79, 4-81, 4-106, 4-107, 4-114, 4-118, 4-121, 4-123, 4-126, 4-128, 4-158, 4-159, 4-161, 4-162, 4-164–4-167, 4-169, 4-170, 4-172–4-175, 4-177, 4-179–4-182, 4-213–4-218, 4-221, 4-223, 4-225, 4-226, 4-228, 4-229, 4-231, 4-232, 4-234, 4-235, 4-237, 4-238, 4-240, 4-241, 4-244, 4-248, 4-251, 4-263, 4-265–4-267, 4-352, 4-357, 4-359–4-361, 4-378, 4-419, 4-429–4-431, 4-444, 4-446, 4-447, 5-396, 5-420, 5-595, 5-666, 5-719, 5-932, 5-1017, 6-9–6-11, 6-17, 6-34, 6-36, 6-39, 7-4, 7-9, 7-19, 7-21, 7-24, 7-26, 7-29, 7-46, 7-61, 7-65, 8-7, 8-15, 8-16, 8-32
- carbon dioxide, 2-188, 4-47, 6-171–6-174, 6-181
- carbon monoxide, 2-144, 2-145, 2-158, 2-171, 2-180, 2-188, 2-196, 3-22, 3-23, 3-26, 3-93, 3-129, 3-191, 4-32, 4-33, 4-38–4-49, 4-271, 4-274, 4-276, 4-277, 4-364, 4-367, 4-368, 4-370, 4-371, 4-431, 4-432, 6-13–6-16, 7-4, 7-10, 7-25, 7-29, 7-30, 8-7
- carbon tetrachloride, 3-23, 3-27, 3-53, 3-56, 6-42, 6-45, 6-46, 6-48, 6-67–6-69, 6-77, 6-80, 6-81, 6-83, 6-106–6-108, 6-115, 6-116, 6-119, 6-121, 6-122, 6-145–6-147, 6-154, 6-156, 6-158, 6-160, 6-162, 6-168, 6-169, 6-171
- carbonate, 1-2, 2-3, 3-33, 3-37, 3-136, 3-140, 4-318
- cast stone, 1-19, 1-25, 1-26, 1-27, 1-28, 2-2, 2-26–2-28, 2-31, 2-57, 2-73, 2-77, 2-80, 2-85, 2-88–2-90, 2-92, 2-93, 2-124, 2-130–2-133, 2-140, 2-141, 2-148, 2-156–2-169, 2-249, 2-257, 2-259, 2-261, 2-271, 2-274, 2-276, 2-287, 2-288, 2-301, 2-303, 3-111, 4-2, 4-9, 4-21, 4-22, 4-29, 4-41, 4-53, 4-58–4-60, 4-71, 4-73, 4-75, 4-85, 4-98, 4-115, 4-119, 4-121, 4-138, 4-165–4-167, 4-172–4-175, 4-185, 4-190, 4-201, 4-212, 4-214, 4-220, 4-229, 4-230, 4-233, 4-236, 4-238, 4-239, 4-255, 5-103, 5-323, 5-366, 5-397–5-400, 5-472, 5-473, 5-526, 5-527, 5-551, 5-552, 5-780, 5-781, 5-843, 5-844, 5-874, 5-875, 5-1088, 5-1094, 5-1097, 5-1124, 5-1132, 5-1136, 7-10, 7-11, 7-16, 7-37, 7-39, *see also* grout, in-trench grouting, secondary waste, supplemental treatment
- Central Waste Complex (CWC), 1-31–1-35, 2-32, 2-46, 2-49, 2-52–2-57, 2-110, 2-114, 2-115, 2-117, 2-120, 2-122, 2-136, 2-137, 2-142, 2-193, 3-23, 3-25, 3-27, 3-93, 3-111, 3-112, 3-113, 3-114, 3-115, 3-177, 3-183, 4-217, 4-219, 4-352, 4-353, 4-356, 4-359, 4-367, 4-376, 4-384, 4-386–4-388, 4-391, 4-397, 4-401, 4-404, 4-419, 4-420, 4-422, 4-423, 5-396, 7-60, 7-61, 7-62, 8-29
- CERCLA waste, 4-444, 5-397–5-401, 6-34, 6-35, 8-14
- Cesium and Strontium Capsule Processing Facility, 2-30, 2-69, 2-72, 2-76, 2-79, 2-83, 2-88, 2-93, 2-100, 2-103, 2-133, 2-152, 4-2, 4-20, 4-21, 4-23, 4-25–4-27, 4-40–4-42, 4-47–4-49, 4-213, 4-214, 7-8
- cesium and strontium capsules, 1-14, 1-23–1-29, 1-34, 1-36, 2-64, 2-65, 2-69, 2-72, 2-73, 2-76, 2-79, 2-83, 2-85, 2-88, 2-92, 2-93, 2-97, 2-99, 2-100, 2-103, 2-133, 2-148, 2-152, 2-308, 3-111, 4-213, 4-214, 4-222, 4-224, 4-227, 4-230, 4-233, 4-236, 4-239, 4-242, 4-243, 4-246, 4-247, 4-250, 4-446, 4-449, 7-39
- cesium trap, 2-43, 2-44, 2-105, 2-110
- cesium-137, 2-26, 2-28, 2-44, 2-61, 2-130, 2-176, 3-24, 3-26, 3-53, 3-132, 3-158, 4-130, 4-310–4-313, 4-325, 5-4, 5-393, 5-394, 6-45, 6-80, 6-118, 6-156, 6-158, 6-160, 6-162, 6-168, 6-169, 7-36
- chemical environment, 3-90, 3-158
- hazardous chemical, 2-40, 2-127, 3-53, 3-87, 3-90–3-92, 3-158, 3-159, 3-161, 4-156, 4-157, 4-160, 4-316, 4-323, 4-325, 4-335, 4-336, 4-338–4-342, 4-402, 4-404, 4-405, 4-408, 4-416–4-418, 6-37
- toxic chemical, 2-149, 2-176, 2-192, 3-87, 3-91, 3-94, 3-95, 4-35, 4-272, 4-365, 4-404, 4-405, 7-24
- chemical impact, 2-215, 4-318, 4-335, 4-337, 4-342, 4-416–4-418, 4-443, 5-304, 5-385, 5-1079, 5-1260
- hazardous chemical impact, 4-323, 4-325, 4-335, 4-336, 4-338–4-342, 4-408, 4-416–4-418
- chemical wash, 1-26, 1-29, 2-15–2-18, 2-87, 2-93, 2-95, 2-96, 2-99, 2-140, 4-2, 7-36, 7-39
- chemical cleaning, 2-16, 2-17
- chemical process, 2-3, 2-18, 3-23, 3-47, 3-159, 3-170
- chemical wash system, 2-17, 4-2
- chemical wash tank cleaning, 2-15
- chronic exposure, 3-87
- Clean Water Act of 1972, 8-2, 8-9
- closure, 1-1, 1-3, 1-4, 1-6, 1-7, 1-11–1-15, 1-18, 1-20, 1-23–1-30, 1-32–1-34, 1-36, 1-39, 1-42, 1-43, 1-46, 1-47, 1-50, 2-1–2-5, 2-11–2-14, 2-16, 2-18, 2-19, 2-23, 2-25, 2-26, 2-29, 2-31–2-37, 2-56–2-64, 2-66, 2-68–2-71, 2-73, 2-74, 2-77–2-80, 2-82, 2-83, 2-84, 2-86–2-89, 2-91, 2-93–2-99, 2-101, 2-103, 2-104, 2-115, 2-117, 2-120, 2-122–2-124, 2-126–2-134, 2-136–2-146, 2-148, 2-150–2-171, 2-173, 2-177, 2-178, 2-186–2-190, 2-193, 2-194, 2-202–2-216, 2-219, 2-221, 2-222, 2-224–2-229, 2-248, 2-251, 2-253, 2-255–2-264, 2-266, 2-268, 2-270–2-279, 2-281, 2-285–2-295, 2-298–2-311, 2-313, 3-1, 3-34, 3-56, 3-109, 3-116, 3-177, 3-179, 3-183, 3-184, 4-1–4-3, 4-6–4-13, 4-16–4-22, 4-24, 4-26–4-37, 4-50–4-54, 4-56, 4-57, 4-59–4-63, 4-65, 4-66, 4-69–4-72, 4-74, 4-76–4-80, 4-83–4-90, 4-92–4-95, 4-97–4-99, 4-101, 4-105, 4-106, 4-109–4-117, 4-119–4-127, 4-129, 4-130, 4-137, 4-138, 4-140–4-142, 4-144, 4-153, 4-155, 4-160, 4-185–4-187, 4-189–4-195, 4-200, 4-212–4-218, 4-220, 4-222, 4-223–4-237, 4-239–4-251, 4-253–4-256, 4-263–4-268, 4-280, 4-282, 4-285–4-287, 4-290, 4-302–4-307, 4-316, 4-331, 4-334, 4-343–4-346, 4-349, 4-351–4-356, 4-358–4-363, 4-368, 4-371, 4-374, 4-375, 4-378, 4-379, 4-382–4-385, 4-387, 4-389, 4-390, 4-394, 4-412–4-415, 4-419, 4-421–4-451, 5-1–5-4, 5-35, 5-69, 5-70, 5-102–5-106, 5-140, 5-173, 5-174, 5-238, 5-239, 5-302–5-304, 5-310, 5-317–5-323, 5-329, 5-330, 5-336, 5-342, 5-343, 5-349, 5-356, 5-362–5-371, 5-385, 5-391, 5-393, 5-394, 5-396–5-401, 5-419–5-421, 5-447, 5-473, 5-499, 5-500, 5-502, 5-527, 5-570, 5-595, 5-596, 5-613, 5-640, 5-667, 5-670, 5-672, 5-719–5-721, 5-750, 5-751, 5-781, 5-811, 5-843, 5-844, 5-874, 5-875, 5-902, 5-903, 5-933, 5-958, 5-986, 5-987, 5-1018, 5-1049, 5-1050, 5-1078, 5-1079, 5-1081, 5-1082, 5-1085, 5-1088, 5-1091, 5-1094, 5-1097, 5-1100, 5-1103, 5-1106, 5-1111, 5-1116, 5-1120, 5-1124, 5-1128, 5-1132, 5-1136, 5-1140, 5-1144, 5-1148, 5-1155, 5-1168–5-1170, 5-1197, 5-1199, 5-1227, 5-1259,

Draft Tank Closure and Waste Management Environmental Impact Statement for the Hanford Site, Richland, Washington

5-1260, 5-1263, 5-1266, 5-1269, 6-1, 6-3-6-5, 6-7-6-15, 6-17-6-19, 6-21, 6-25, 6-27, 6-29, 6-31, 6-32, 6-34-6-38, 6-41, 6-43, 6-44, 6-78, 6-79, 6-115-6-118, 6-154, 6-157, 6-164, 6-165, 6-170, 6-173, 6-174, 6-178, 6-179, 6-180, 7-1, 7-3, 7-5-7-11, 7-13-7-18, 7-20-7-25, 7-27-7-30, 7-32-7-67, 8-1, 8-5, 8-9, 8-11-8-14, 8-18, 8-19, 8-24, 8-27-8-33
clean closure, 1-11-1-13, 1-19, 1-26-1-29, 2-2, 2-32-2-37, 2-57-2-60, 2-63, 2-85, 2-86, 2-88, 2-89, 2-94, 2-97, 2-98, 2-100, 2-101, 2-133, 2-134, 2-141, 2-143, 2-145-2-147, 2-153, 2-156-2-169, 2-212, 2-220, 2-222, 2-286, 2-290-2-292, 2-294, 2-302-2-304, 4-1, 4-10-4-14, 4-16, 4-23, 4-24, 4-26, 4-30, 4-31, 4-43, 4-45, 4-47, 4-59-4-64, 4-73, 4-74, 4-76-4-79, 4-88, 4-90, 4-92, 4-100, 4-101, 4-103, 4-117, 4-119, 4-121, 4-124, 4-142, 4-145, 4-149, 4-171, 4-176, 4-178, 4-191, 4-193, 4-194, 4-203, 4-206, 4-208, 4-216, 4-217, 4-235, 4-237, 4-241, 4-245, 4-255, 4-256, 4-352, 4-422, 4-426, 4-446, 5-3, 5-105, 5-172, 5-176, 5-238, 5-240, 5-323, 5-329, 5-336, 5-342, 5-349, 5-367, 5-368, 5-369, 5-396, 5-1168, 5-1236, 7-8, 7-11, 7-14, 7-15, 7-17, 7-25, 7-29, 7-31-7-35, 7-48, 7-55, 7-56, 7-63-7-65, 8-13
landfill closure, 1-11, 1-13, 1-18, 1-20, 1-24-1-28, 2-2, 2-32-2-34, 2-36, 2-57, 2-58, 2-63, 2-65, 2-69, 2-70, 2-73, 2-74, 2-77, 2-78, 2-81, 2-82, 2-85, 2-86, 2-89, 2-91, 2-94, 2-95, 2-97, 2-98, 2-101, 2-102, 2-105, 2-115, 2-134, 2-137, 2-141, 2-144, 2-146, 2-156-2-169, 2-290-2-294, 2-301-2-304, 2-307, 4-1, 4-3, 4-7, 4-8, 4-9, 4-10, 4-11, 4-15, 4-20, 4-21, 4-22, 4-23, 4-24, 4-25, 4-26, 4-27, 4-29, 4-30, 4-32, 4-39, 4-40, 4-41, 4-42, 4-43, 4-44, 4-49, 4-51, 4-53, 4-54, 4-56, 4-57, 4-58, 4-59, 4-60, 4-61, 4-62, 4-63, 4-65, 4-69, 4-70, 4-71, 4-72, 4-73, 4-74, 4-75, 4-76, 4-77, 4-79, 4-83, 4-84, 4-85, 4-87, 4-88, 4-89, 4-94, 4-97, 4-98, 4-99, 4-100, 4-104, 4-110, 4-112, 4-115, 4-116, 4-117, 4-119, 4-124, 4-127, 4-135, 4-136, 4-138, 4-140, 4-142, 4-143, 4-153, 4-161, 4-163, 4-165, 4-168, 4-171, 4-173, 4-180, 4-188, 4-189, 4-190, 4-191, 4-192, 4-195, 4-198, 4-199, 4-201, 4-202, 4-203, 4-204, 4-211, 4-223, 4-226, 4-229, 4-232, 4-235, 4-238, 4-249, 4-255, 4-256, 4-360, 4-361, 4-377, 4-378, 4-379, 4-380, 4-426, 4-433, 5-3, 5-68, 5-69, 5-102-5-105, 5-139, 5-302, 5-317, 5-323, 5-330, 5-362, 5-365-5-367, 5-370, 5-1168, 5-1205, 6-175, 7-14, 7-55, 8-13
no closure, 1-18, 1-24, 2-2, 2-56, 2-57, 2-66, 2-134, 2-156-2-169, 2-290, 2-292, 2-301, 2-303, 4-6, 4-20, 4-29, 4-38, 4-55, 4-67, 4-81, 4-96, 4-108, 4-133, 4-157, 4-187, 4-197, 4-221, 4-254, 5-35, 5-310, 5-365
selective clean closure/landfill closure, 1-13, 2-134, 2-144, 2-290-2-293
Code of Federal Regulations (CFR), 1-1, 1-4, 1-7, 1-30, 1-41, 1-48, 2-59, 2-145, 2-146, 2-148, 2-171, 2-188, 2-233, 2-251, 2-307, 2-311, 2-312, 3-19, 3-21-3-26, 3-42, 3-58, 3-89, 3-90, 3-127, 3-129, 3-133, 3-157, 3-158, 3-187, 3-188, 4-33, 4-35, 4-66, 4-130, 4-131, 4-225, 4-228, 4-231, 4-234, 4-237, 4-240, 4-271, 4-272, 4-276, 4-364, 4-365, 4-452, 6-3, 6-27, 6-42, 6-77, 6-116, 6-180, 7-1, 7-2, 7-13, 7-20, 7-54, 7-67, 8-1-8-11, 8-13, 8-16-8-21, 8-23-8-26, 8-28-8-30
Columbia River, 1-2, 1-16, 1-19, 2-127, 2-146, 2-203, 2-204, 2-211, 2-214, 2-216, 2-227, 2-229-2-231, 2-233, 2-236-2-238, 2-246-2-248, 2-251, 2-252, 2-254, 2-269, 2-283-2-285, 2-289, 3-1, 3-2, 3-4, 3-6, 3-7, 3-9-3-12, 3-16, 3-17, 3-28, 3-31-3-39, 3-41-3-44, 3-46, 3-48, 3-49, 3-51-3-53, 3-56, 3-61, 3-62, 3-67-3-72, 3-75-3-77, 3-80, 3-86, 3-89, 3-90, 3-92, 3-96, 3-184, 4-65, 4-67-4-80, 4-82, 4-84-4-89, 4-91, 4-93, 4-94, 4-196, 4-198-4-202, 4-204-4-207, 4-209-4-211, 4-286, 4-335-4-337, 4-339, 4-381, 4-417, 4-434, 5-4, 5-7-5-11, 5-14, 5-16, 5-29, 5-34-5-36, 5-39-5-42, 5-45, 5-49, 5-61, 5-68, 5-70, 5-73-5-76, 5-83, 5-96, 5-102, 5-106, 5-109-5-112, 5-118, 5-130, 5-139, 5-141, 5-143-5-146, 5-149, 5-153, 5-165, 5-172, 5-174, 5-179-5-184, 5-186, 5-191, 5-194, 5-222, 5-229, 5-237-5-239, 5-245-5-250, 5-256, 5-263, 5-287, 5-293, 5-301, 5-303-5-309, 5-311-5-315, 5-318-5-322, 5-324-5-328, 5-331-5-335, 5-337-5-341, 5-344-5-348, 5-350-5-355, 5-357-5-362, 5-364-5-371, 5-373, 5-375, 5-377-5-380, 5-382, 5-383, 5-385, 5-387, 5-389, 5-391-5-394, 5-395, 5-402, 5-403, 5-405, 5-409, 5-410, 5-419, 5-421, 5-422, 5-424, 5-425, 5-427, 5-428, 5-432, 5-445-5-447, 5-450, 5-453, 5-454, 5-457, 5-458, 5-471, 5-473, 5-474, 5-476, 5-479, 5-483, 5-484, 5-497, 5-499, 5-502, 5-503, 5-505, 5-506, 5-509-5-512, 5-525-5-527, 5-530, 5-533, 5-534, 5-537, 5-538, 5-550, 5-552, 5-555-5-557, 5-560, 5-568, 5-570, 5-573, 5-574, 5-576, 5-577, 5-581, 5-594, 5-596, 5-599, 5-600, 5-603, 5-604, 5-613, 5-616, 5-617, 5-619-5-621, 5-624, 5-625, 5-638, 5-640, 5-643, 5-644, 5-646-5-648, 5-651, 5-652, 5-666, 5-667, 5-672-5-674, 5-679-5-682, 5-684, 5-686-5-692, 5-718, 5-720, 5-723, 5-726, 5-729-5-731, 5-735, 5-748, 5-749, 5-751, 5-753, 5-754, 5-757, 5-760, 5-761, 5-765, 5-778, 5-779, 5-781, 5-784, 5-787, 5-790, 5-791, 5-809-5-812, 5-814, 5-815, 5-818, 5-821-5-823, 5-825, 5-827, 5-828, 5-838, 5-841, 5-842, 5-844, 5-846, 5-847, 5-850, 5-853-5-856, 5-858-5-860, 5-869, 5-872, 5-874, 5-875, 5-877, 5-878, 5-881-5-885, 5-887, 5-888, 5-895, 5-898, 5-901-5-903, 5-905, 5-906, 5-908, 5-909, 5-911-5-913, 5-930, 5-932, 5-933, 5-935, 5-936, 5-938-5-940, 5-943, 5-956-5-958, 5-960, 5-961, 5-963, 5-964, 5-966, 5-967, 5-970, 5-971, 5-984, 5-985, 5-987, 5-989, 5-990, 5-992, 5-993, 5-995, 5-996, 5-1000, 5-1015, 5-1016, 5-1018, 5-1020, 5-1021, 5-1023, 5-1024, 5-1026, 5-1027, 5-1031, 5-1033, 5-1046, 5-1047, 5-1049, 5-1051, 5-1052, 5-1054, 5-1055, 5-1057, 5-1058, 5-1061, 5-1076-5-1078, 5-1080, 5-1083, 5-1086, 5-1088, 5-1089, 5-1091, 5-1092, 5-1094, 5-1095, 5-1097, 5-1098, 5-1101, 5-1104, 5-1107, 5-1108, 5-1112, 5-1113, 5-1117, 5-1118, 5-1121, 5-1122, 5-1124-5-1126, 5-1128-5-1130, 5-1132, 5-1133, 5-1134, 5-1136, 5-1137, 5-1138, 5-1141, 5-1142, 5-1145, 5-1146, 5-1149-5-1152, 5-1156-5-1159, 5-1162-5-1167, 5-1169-5-1173, 5-1175, 5-1179, 5-1191, 5-1196-5-1200, 5-1203, 5-1221, 5-1226, 5-1227, 5-1229-5-1231, 5-1234, 5-1253, 5-1258-5-1261, 5-1264, 5-1267, 5-1269, 5-1271, 5-1272, 6-4, 6-5, 6-7, 6-8, 6-11, 6-18, 6-19, 6-24, 6-28, 6-34, 6-37, 6-38, 6-42, 6-44-6-46, 6-49, 6-51, 6-70, 6-77-6-81,

- 6-84, 6-86, 6-109, 6-115–6-119, 6-121, 6-124, 6-125, 6-148, 6-154–6-157, 6-159, 6-161, 6-163–6-165, 6-167, 6-169–6-171, 6-175, 6-177, 6-181, 7-5, 7-6, 7-7, 7-13, 7-15, 7-18, 7-20, 7-21, 7-25, 7-26, 7-28, 7-31, 7-56, 7-57, 7-62, 7-65, 8-9, 8-10, 8-15, 8-21
- Columbia River corridor, 3-6, 6-24, 6-37, 6-38
- Columbia River nearshore, 2-203, 2-204, 2-214, 2-216, 2-229, 2-230, 2-233, 2-237, 2-238, 2-248, 2-251, 2-252, 2-254, 2-269, 2-285, 2-289, 3-43, 3-61, 5-9, 5-11, 5-14, 5-40, 5-42, 5-45, 5-68, 5-74, 5-76, 5-102, 5-110, 5-112, 5-139, 5-145, 5-149, 5-182, 5-186, 5-191, 5-237, 5-238, 5-247, 5-248, 5-256, 5-301, 5-303, 5-305–5-309, 5-311–5-315, 5-318–5-322, 5-324–5-328, 5-331–5-335, 5-337–5-341, 5-344–5-348, 5-350–5-355, 5-357–5-361, 5-371, 5-375, 5-377–5-379, 5-382, 5-383, 5-385, 5-387, 5-389, 5-405, 5-428, 5-445, 5-454, 5-480, 5-506, 5-509–5-511, 5-525, 5-526, 5-534, 5-556, 5-557, 5-560, 5-568, 5-577, 5-600, 5-603, 5-620, 5-621, 5-624, 5-625, 5-638, 5-647, 5-648, 5-652, 5-666, 5-681, 5-682, 5-684, 5-686, 5-687–5-690, 5-718, 5-730, 5-731, 5-749, 5-761, 5-791, 5-810, 5-811, 5-822, 5-823, 5-825, 5-827, 5-828, 5-838, 5-841, 5-842, 5-854–5-856, 5-858–5-860, 5-872, 5-874, 5-883–5-885, 5-887, 5-888, 5-901, 5-902, 5-932, 5-939, 5-957, 5-967, 5-971, 5-985, 5-996, 5-1027, 5-1047, 5-1058, 5-1078, 5-1080, 5-1088, 5-1091, 5-1094, 5-1097, 5-1117, 5-1118, 5-1121, 5-1122, 5-1124, 5-1128–5-1130, 5-1132, 5-1133, 5-1134, 5-1136–5-1138, 5-1141, 5-1142, 5-1145, 5-1146, 5-1149–5-1152, 5-1156–5-1159, 5-1167, 5-1171, 5-1173, 5-1175, 5-1196, 5-1199, 5-1200, 5-1203, 5-1226, 5-1229–5-1231, 5-1234, 5-1258–5-1260, 5-1264, 5-1267, 5-1272, 6-44, 6-46, 6-49, 6-79, 6-81, 6-84, 6-118, 6-119, 6-121, 6-124, 6-155, 6-171, 7-5
- Colville Reservation, *see* American Indian
- combination of alternatives, *see* alternative combination
- commitments of resources, 7-54
- commitment of land, 4-6–4-11, 4-15, 4-95, 7-8, 7-34, 7-35, 7-42, 7-46, 7-47, 7-51, 7-56, 7-58, 7-64
- irreversible and irretrievable commitments of resources, 7-34, 7-51
- long-term commitment, 7-56–7-58, 7-61, 7-63, 7-64
- short-term commitment, 7-23, 7-55, 7-58, 7-60, 7-61
- community services, 3-82, 3-83, 3-155, 4-107, 4-110, 4-112, 4-114, 4-118, 4-121, 4-123, 4-126, 4-128, 4-304, 4-306, 4-393, 4-395, 6-8, 7-19, *see also* housing
- comparison of alternatives, 2-192
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 1-3, 1-13, 1-14, 1-33, 1-34, 1-37, 1-51, 2-55, 2-58, 2-62, 2-115, 2-120, 2-123, 2-137, 2-138, 2-154, 2-251, 2-253, 2-255–2-260, 2-262–2-264, 2-266, 2-268, 2-270, 2-271, 2-273, 2-274, 2-276–2-278, 2-281, 2-295, 2-296, 2-305, 2-306, 3-4, 3-51, 3-110, 3-113, 3-115, 3-116, 3-146, 4-217, 4-422, 4-444, 4-445, 5-396–5-402, 5-1079, 5-1081, 5-1085, 5-1088, 5-1091, 5-1094, 5-1097, 5-1100, 5-1103, 5-1106, 5-1111, 5-1116, 5-1120, 5-1124, 5-1128, 5-1132, 5-1136, 5-1140, 5-1144, 5-1148, 5-1155, 6-2, 6-5, 6-29, 6-34, 6-35, 6-37, 6-38, 6-176, 7-26, 8-4, 8-14, 8-26
- constituent of primary concern (COPC), 2-204, 2-212, 2-213, 2-225–2-228, 2-230, 2-231, 2-235–2-238, 2-248, 2-249, 2-283, 2-284, 5-2, 5-4–5-7, 5-10, 5-35, 5-36, 5-39, 5-41, 5-69–5-71, 5-73, 5-75, 5-103–5-106, 5-109, 5-111, 5-140–5-143, 5-146, 5-173, 5-174, 5-177–5-179, 5-181, 5-183, 5-184, 5-239, 5-240, 5-243, 5-245, 5-246, 5-249, 5-250, 5-302, 5-362–5-365, 5-373, 5-377, 5-379, 5-380, 5-382–5-384, 5-390–5-393, 5-402, 5-403, 5-409, 5-421, 5-422, 5-432, 5-445–5-447, 5-457, 5-472–5-474, 5-483, 5-498, 5-500, 5-511, 5-526, 5-528, 5-530, 5-532, 5-533, 5-537, 5-538, 5-551–5-553, 5-557, 5-569, 5-570, 5-574, 5-581, 5-595, 5-596, 5-603, 5-612, 5-613, 5-617, 5-621, 5-639, 5-640, 5-644, 5-648, 5-667, 5-670, 5-681, 5-720, 5-722, 5-723, 5-725, 5-726, 5-728–5-730, 5-750, 5-751, 5-753, 5-756, 5-757, 5-759–5-761, 5-780, 5-782, 5-784, 5-786, 5-787, 5-789–5-791, 5-811, 5-813, 5-814, 5-817, 5-818, 5-820–5-822, 5-843, 5-845, 5-846, 5-849, 5-850, 5-852–5-854, 5-874, 5-876, 5-877, 5-880–5-882, 5-902–5-905, 5-907, 5-908, 5-910, 5-911, 5-913, 5-932–5-935, 5-937, 5-938, 5-940, 5-956–5-960, 5-962–5-964, 5-966, 5-970, 5-984, 5-986, 5-988, 5-989, 5-991–5-993, 5-995, 5-1000, 5-1015, 5-1017, 5-1019, 5-1020, 5-1022, 5-1023, 5-1025, 5-1026, 5-1031, 5-1048, 5-1050, 5-1051, 5-1053, 5-1054, 5-1056, 5-1057, 5-1061, 5-1162–5-1164, 5-1169–5-1172, 5-1197–5-1199, 5-1227–5-1230, 5-1271, 6-42, 6-43, 6-44, 6-45, 6-77–6-80, 6-116–6-119, 6-165, 6-167, 6-169, 6-170, 7-5, 7-6
- construction site, 2-24, 2-146, 3-141, 4-28, 4-287–4-289, 4-380, 6-15
- contact-handled waste (CH waste), 3-109, 3-112, 3-113, *see also* contact-handled low-level radioactive waste, contact-handled mixed low-level radioactive waste, contact-handled mixed transuranic waste, contact-handled transuranic waste
- contact-handled low-level radioactive waste (CH-LLW), 2-117, 2-122, 2-136, 3-113, 3-169
- contact-handled mixed low-level radioactive waste (CH-MLLW), 2-117, 2-122, 2-136
- contact-handled mixed transuranic waste waste (CH-Mixed TRU waste), 2-28, 2-56, 2-152, 3-111
- contact-handled transuranic waste (CH-TRU waste), 2-117, 2-122, 2-136, 3-112, 4-190, 4-191, 4-212, 4-215, 4-217, 4-218, 4-220, 4-227, 4-230, 4-233, 4-236, 4-239
- contamination, 1-5, 1-7, 1-13, 1-16, 1-27, 1-29, 2-9, 2-34, 2-46, 2-89, 2-95, 2-97, 2-101, 2-125, 2-132, 2-173, 2-182, 2-220, 2-222, 2-290, 2-293, 3-2, 3-46, 3-48, 3-52, 3-53, 3-57, 3-79, 3-92, 3-93, 3-112, 3-144, 3-146, 3-160, 4-51, 4-60, 4-62, 4-65, 4-67–4-69, 4-71–4-75, 4-77, 4-79, 4-80, 4-218, 4-282, 4-283, 4-290, 4-308, 4-376, 4-383, 5-35, 5-102, 5-139, 5-172, 5-173, 5-238, 5-323, 5-336, 5-342, 5-406, 5-428, 5-446, 5-454, 5-471, 5-473, 5-480, 5-497, 5-781, 5-794, 5-811, 5-917, 5-919, 5-932, 5-971, 5-985, 5-1000, 5-1016, 5-1061, 5-1077, 5-1197, 5-1227, 5-1259, 6-29, 6-38, 7-12, 7-14, 7-36, 7-43, 7-48, 7-57, 7-59, 7-62, 8-14
- contaminated equipment, 1-21, 2-42, 2-111, 2-113, 2-120, 2-123, 2-138, 2-153, 2-154, 2-173, 2-295,

- 2-298, 3-112, 3-114, 4-261, 4-290, 4-294, 4-308, 4-347, 5-396, 5-420, 5-719, 5-909, 8-25
- Core Zone**, 2-203, 2-204, 2-210, 2-212–2-225, 2-229, 2-230, 2-237, 2-238, 2-244, 2-245, 2-248–2-282, 2-285–2-287, 2-289–2-291, 2-293–2-296, 2-298, 2-299, 5-2, 5-4, 5-9, 5-10, 5-15, 5-16, 5-29, 5-34–5-36, 5-40–5-42, 5-45, 5-46, 5-49, 5-61, 5-68–5-70, 5-74–5-76, 5-80, 5-83, 5-96, 5-102, 5-106, 5-110–5-112, 5-118, 5-130, 5-139–5-141, 5-145, 5-146, 5-151, 5-153, 5-165, 5-172–5-174, 5-182–5-184, 5-186, 5-191, 5-194, 5-222, 5-237–5-239, 5-247–5-250, 5-256, 5-258, 5-263, 5-287, 5-301, 5-303, 5-305–5-322, 5-324–5-348, 5-350–5-355, 5-357–5-362, 5-371, 5-391, 5-402, 5-405, 5-406, 5-409, 5-419–5-421, 5-428, 5-432, 5-445, 5-446, 5-454, 5-457, 5-471–5-473, 5-479, 5-480, 5-483, 5-497, 5-498, 5-506, 5-509–5-511, 5-525–5-527, 5-534, 5-537, 5-538, 5-550, 5-551, 5-556, 5-557, 5-560, 5-569, 5-577, 5-581, 5-594–5-596, 5-600, 5-603, 5-604, 5-612, 5-620, 5-621, 5-624, 5-625, 5-638, 5-639, 5-647, 5-648, 5-651, 5-652, 5-666, 5-667, 5-680–5-682, 5-684, 5-686–5-690, 5-718, 5-719, 5-720, 5-730, 5-731, 5-735, 5-748–5-750, 5-761, 5-765, 5-778–5-781, 5-791, 5-794, 5-810–5-812, 5-822, 5-823, 5-825, 5-827, 5-828, 5-835, 5-842, 5-843, 5-854–5-856, 5-858–5-860, 5-874, 5-882–5-885, 5-887, 5-888, 5-892, 5-902, 5-903, 5-912, 5-913, 5-917, 5-932, 5-933, 5-939, 5-940, 5-943, 5-956–5-958, 5-967, 5-970, 5-971, 5-985, 5-986, 5-996, 5-996, 5-1000, 5-1016–5-1018, 5-1027, 5-1031, 5-1033, 5-1033, 5-1046–5-1049, 5-1058, 5-1061, 5-1077–5-1118, 5-1120–5-1162, 5-1167, 5-1171–5-1173, 5-1175, 5-1177, 5-1179, 5-1191, 5-1196, 5-1197, 5-1199, 5-1200, 5-1203–5-1205, 5-1221, 5-1226, 5-1227, 5-1227, 5-1229–5-1231, 5-1234–5-1236, 5-1253, 5-1258–5-1269, 5-1272, 6-44–6-46, 6-49, 6-51, 6-70, 6-77, 6-79–6-81, 6-84, 6-86, 6-87, 6-109, 6-115, 6-118, 6-119, 6-121, 6-124–6-126, 6-148, 6-154–6-157, 6-159, 6-161, 6-163, 6-171, 7-5, 7-15, 7-21, 7-32, 7-65
- Core Zone Boundary**, 2-203, 2-204, 2-210, 2-212–2-225, 2-229, 2-230, 2-237, 2-238, 2-244, 2-245, 2-248–2-282, 2-285–2-287, 2-289–2-291, 2-293–2-296, 2-298, 2-299, 5-4, 5-9, 5-10, 5-15, 5-16, 5-29, 5-34–5-36, 5-40–5-42, 5-45, 5-46, 5-49, 5-61, 5-68–5-70, 5-74–5-76, 5-80, 5-83, 5-96, 5-102, 5-106, 5-110–5-112, 5-118, 5-130, 5-139–5-141, 5-145, 5-146, 5-151, 5-153, 5-165, 5-172–5-174, 5-182–5-184, 5-186, 5-191, 5-194, 5-222, 5-237–5-239, 5-247–5-250, 5-256, 5-258, 5-263, 5-287, 5-301, 5-303, 5-305–5-322, 5-324–5-348, 5-350–5-355, 5-357–5-362, 5-371, 5-391, 5-402, 5-405, 5-406, 5-409, 5-419, 5-421, 5-428, 5-432, 5-445, 5-446, 5-454, 5-457, 5-471–5-473, 5-479, 5-480, 5-483, 5-497, 5-498, 5-506, 5-509–5-511, 5-525–5-527, 5-534, 5-537, 5-550, 5-551, 5-556, 5-557, 5-560, 5-569, 5-577, 5-581, 5-594–5-596, 5-600, 5-603, 5-604, 5-612, 5-620, 5-621, 5-624, 5-625, 5-638, 5-639, 5-647, 5-648, 5-651, 5-652, 5-666, 5-667, 5-680–5-682, 5-684, 5-686–5-690, 5-718, 5-720, 5-730, 5-731, 5-735, 5-749, 5-750, 5-761, 5-765, 5-779–5-781, 5-791, 5-794, 5-810–5-812, 5-822, 5-823, 5-825, 5-827, 5-835, 5-842, 5-843, 5-854–5-856, 5-858–5-860, 5-874, 5-882–5-885, 5-887, 5-888, 5-892, 5-902, 5-903, 5-912, 5-913, 5-917, 5-932, 5-933, 5-939, 5-940, 5-943, 5-956–5-958, 5-967, 5-970, 5-971, 5-985, 5-986, 5-996, 5-996, 5-1000, 5-1016–5-1018, 5-1027, 5-1031, 5-1033, 5-1046–5-1049, 5-1058, 5-1061, 5-1077–5-1118, 5-1120–5-1162, 5-1167, 5-1171–5-1173, 5-1175, 5-1177, 5-1179, 5-1191, 5-1196, 5-1197, 5-1199, 5-1200, 5-1203–5-1205, 5-1221, 5-1226, 5-1227, 5-1227, 5-1229–5-1231, 5-1234–5-1236, 5-1253, 5-1258–5-1269, 5-1272, 6-44–6-46, 6-49, 6-51, 6-70, 6-77, 6-79–6-81, 6-84, 6-86, 6-87, 6-109, 6-115, 6-118, 6-119, 6-121, 6-124–6-126, 6-148, 6-154–6-157, 6-159, 6-161, 6-163, 6-171, 7-5, 7-15, 7-21, 7-32, 7-65
- 5-825, 5-827, 5-829, 5-835, 5-842, 5-843, 5-854–5-856, 5-858, 5-860, 5-874, 5-875, 5-882–5-885, 5-887, 5-888, 5-892, 5-902, 5-903, 5-912, 5-913, 5-917, 5-932, 5-933, 5-939, 5-940, 5-943, 5-956–5-958, 5-967, 5-970, 5-971, 5-985, 5-986, 5-996, 5-1000, 5-1016–5-1018, 5-1027, 5-1031, 5-1033, 5-1047–5-1049, 5-1058, 5-1061, 5-1077–5-1118, 5-1120–5-1162, 5-1167, 5-1171–5-1173, 5-1175, 5-1177, 5-1179, 5-1191, 5-1196, 5-1197, 5-1199, 5-1200, 5-1203–5-1205, 5-1221, 5-1226, 5-1227, 5-1229–5-1231, 5-1234–5-1236, 5-1253, 5-1258–5-1269, 5-1272, 6-44–6-46, 6-49, 6-77, 6-79–6-81, 6-84, 6-87, 6-115, 6-118, 6-119, 6-121, 6-124, 6-126, 6-154–6-157, 6-159, 6-161, 6-163, 6-171, 7-5, 7-15, 7-21, 7-32, 7-65
- costs**
 cost estimates, 1-42, 2-299–2-302, 2-304–2-306
 cost projections, 2-303, 2-304, 2-307
 waste disposal costs, 2-303–2-305, 2-307
 waste form disposal costs, 2-299, 2-301–2-304, 2-306
- Council on Environmental Quality (CEQ)**, 1-1, 1-18, 1-19, 1-23, 1-30, 1-33, 1-48, 1-49, 2-59, 2-307, 2-312, 3-95, 3-174, 6-3, 6-4, 6-175, 6-180, 7-1, 7-67, 8-1, 8-5, 8-27
- Craters of the Moon Wilderness**, 3-121, 3-124, 3-130, 3-131, 3-137
- cribs and trenches**, *see* trench
- criteria pollutant**, 2-145, 2-158, 2-171, 2-180, 2-188, 2-196, 3-22, 3-23, 3-27, 3-130, 3-175, 4-32, 4-33, 4-38–4-49, 4-270, 4-271, 4-274, 4-276, 4-277, 4-363, 4-364, 4-367, 4-371, 6-15, 7-10, 7-24, 8-7, 8-8, *see also* air pollutant, air quality, emission, National Ambient Air Quality Standards, National Emission Standards on Hazardous Air Pollutants
 criteria air pollutant, 2-145, 2-171, 2-188, 3-21, 3-179, 4-35, 4-272, 4-365, 4-432, 6-13, 6-14, 6-178, 7-4
- cryptogamic crust**, *see also* microbiotic crust
- cullet**, 1-5
- cultural and paleontological resources**, 3-1, 3-2, 3-74, 3-151, 4-436, 6-3, 6-5, 6-22
- cultural resource**, 2-147, 2-174, 2-190, 3-7, 3-74–3-79, 3-151, 3-152, 3-177, 3-183, 4-95–4-101, 4-103–4-105, 4-298–4-302, 4-390, 4-391, 4-449, 4-450, 6-22, 6-23, 6-179, 7-4, 7-6, 7-18, 7-66, 8-7, 8-20, 8-30–8-32
- paleontological resource**, 2-147, 2-162, 2-163, 2-174, 2-182, 2-190, 2-199, 3-74, 3-80, 3-81, 3-151, 3-153, 3-184, 4-95–4-101, 4-103–4-105, 4-296, 4-297, 4-300, 4-302, 4-388–4-391, 4-436, 4-437, 6-22, 6-24, 7-18, 7-26, 8-3, 8-4, 8-20
- cumulative actions**, 6-4, 6-6
- cumulative impacts**, 1-16, 1-43, 1-44, 2-56, 2-57, 2-115, 2-194, 3-130, 4-1, 4-34, 4-130, 4-272, 4-365, 5-1, 6-1–6-6, 6-8, 6-9, 6-11, 6-13–6-19, 6-21–6-26, 6-28, 6-29, 6-31, 6-34, 6-35, 6-40–6-42, 6-155, 6-159, 6-161, 6-163–6-165, 6-167–6-172, 6-179, 7-59, *see also* environmental consequences, environmental impact
- long-term cumulative impacts**, 6-3, 6-30, 6-42, 6-77, 6-155, 6-164
- short-term cumulative impacts**, 6-1, 6-3, 6-5, 6-18, 6-22

D

- dangerous waste, 1-3, 1-24, 1-26–1-28, 1-30, 1-48, 1-51, 2-25, 2-30, 2-154, 2-178, 2-194, 2-309, 2-311, 2-313, 3-2, 3-111, 3-113, 3-114, 3-176, 3-190, 4-218, 4-343, 4-420, 4-453, 6-4, 6-35–6-38, 6-175, 6-181, 8-2, 8-12, 8-13, 8-27, 8-30, *see also* hazardous waste, special waste, waste management
- day-night average sound level, 3-18, 3-127
- deactivation, 1-8, 1-9, 1-13, 1-14, 1-22, 1-29–1-31, 1-33, 1-35, 1-40, 1-46, 2-1, 2-23, 2-37, 2-42, 2-43, 2-48, 2-58, 2-97, 2-101, 2-105–2-107, 2-110, 2-116, 2-123, 2-127, 2-128, 2-135, 2-136, 2-138, 2-142–2-144, 2-146, 2-148, 2-153–2-155, 2-170, 2-171, 2-173, 2-177, 2-178, 2-182, 2-186–2-189, 2-193, 2-194, 2-285, 2-295, 2-299–2-302, 2-304–2-306, 2-308, 2-310, 3-78, 3-79, 3-112, 3-175, 3-180, 4-1, 4-9–4-12, 4-16–4-32, 4-35, 4-41, 4-51, 4-65–4-73, 4-75–4-79, 4-99, 4-101, 4-106–4-111, 4-113, 4-115–4-117, 4-119, 4-120, 4-122, 4-124, 4-125, 4-127, 4-130, 4-144, 4-188–4-195, 4-212, 4-216, 4-218, 4-220, 4-222, 4-224, 4-227, 4-230, 4-233, 4-236, 4-239, 4-242, 4-243, 4-245–4-247, 4-250, 4-253–4-256, 4-263–4-266, 4-268, 4-277, 4-278, 4-285, 4-287–4-289, 4-308, 4-309, 4-311, 4-313, 4-328, 4-331, 4-334–4-336, 4-343–4-347, 4-349–4-354, 4-356–4-359, 4-361, 4-362, 4-367, 4-374, 4-376–4-378, 4-381, 4-383, 4-412–4-415, 4-419, 4-421–4-425, 4-436, 4-450, 5-3, 5-371, 5-396, 6-10, 6-17, 6-24, 6-30, 6-176, 7-10, 7-13, 7-23, 7-24, 7-27–7-29, 7-32, 7-34, 7-35, 7-40–7-64, 8-1, 8-3, 8-9, 8-14, 8-21, 8-24
- decay heat, *see also* radioactivity
- radioactive decay, 2-140, 2-204, 2-230, 2-237, 3-52, 3-146, 4-132, 5-4, 5-7, 5-8, 5-11, 5-15, 5-34, 5-36, 5-38, 5-39, 5-42, 5-46, 5-68, 5-70, 5-73, 5-74, 5-102, 5-106, 5-109, 5-110, 5-116, 5-139, 5-141, 5-143, 5-145, 5-151, 5-172, 5-174, 5-178, 5-179, 5-181, 5-182, 5-194, 5-237, 5-239, 5-243, 5-244, 5-246–5-248, 5-258, 5-301, 5-373, 5-377, 5-379, 5-380, 5-384, 5-402, 5-421, 5-446, 5-473, 5-498, 5-527, 5-551, 5-569, 5-596, 5-612, 5-639, 5-667, 5-720, 5-750, 5-781, 5-812, 5-843, 5-875, 5-903, 5-933, 5-958, 5-986, 5-1018, 5-1049, 5-1169–5-1171, 5-1177, 5-1196–5-1198, 5-1200, 5-1204, 5-1227–5-1230, 5-1235, 5-1259, 6-42–6-44, 6-46, 6-51, 6-77, 6-78, 6-81, 6-86, 6-116, 6-117, 6-119, 6-125, 6-155
- decontamination and decommissioning (D&D), 1-36, 1-41, 2-32, 2-37, 2-38, 2-126, 2-300, 2-309, 3-5, 3-169, 3-177, 3-183, 4-137, 4-140, 4-141, 4-224, 4-227, 4-230, 4-233, 4-236, 4-240, 4-242, 4-243, 4-246, 4-247, 4-250, 4-449, 6-11, 6-17–6-19, 7-56, 8-1, 8-14, 8-32
- deep drill hole, 3-135
- demography, 3-81
- demographic characteristics, 2-147, 2-174, 2-191, 3-81, 3-154, 4-107, 4-109, 4-111, 4-112, 4-114–4-116, 4-118, 4-120, 4-123, 4-126, 4-128, 4-303, 4-304, 4-306, 4-392, 4-393, 4-395, 7-19, 7-27
- derived concentration guide, 2-212, 2-231, 2-248, 3-43
- design basis, 3-36, 4-282–4-284
- design-basis event, 3-138
- disposal group, 2-56, 2-57, 2-62, 2-120, 2-123, 2-138, 2-139, 2-153, 2-154, 2-186, 2-187, 2-189–2-203, 2-239–2-249, 2-253–2-260, 2-262–2-264, 2-266, 2-268–2-271, 2-273, 2-274, 2-276–2-278, 2-281, 2-283, 2-284, 2-288, 2-295, 2-305–2-307, 4-216, 4-217, 4-221, 4-223, 4-225, 4-226, 4-228, 4-229, 4-231, 4-232, 4-234, 4-235, 4-237, 4-238, 4-240, 4-241, 4-244, 4-248, 4-251–4-364, 4-366–4-368, 4-370, 4-371, 4-374–4-379, 4-381–4-395, 4-398–4-402, 4-406–4-408, 4-410–4-415, 4-417–4-419, 4-421–4-436, 4-438, 4-440–4-442, 4-445–4-448, 5-394, 5-396–5-401, 5-420, 5-421, 5-428, 5-446, 5-472, 5-498, 5-499, 5-512, 5-526, 5-550, 5-551, 5-569, 5-595, 5-612, 5-639, 5-666, 5-667, 5-719, 5-720, 5-750, 5-759, 5-760, 5-780, 5-811, 5-843, 5-874, 5-902, 5-903, 5-932, 5-957, 5-986, 5-1017, 5-1028, 5-1048, 5-1081, 5-1085, 5-1088, 5-1091, 5-1094, 5-1097, 5-1100, 5-1103, 5-1106, 5-1111, 5-1116, 5-1120, 5-1124, 5-1128, 5-1132, 5-1136, 5-1140, 5-1144, 5-1148, 5-1155, 5-1162–5-1168, 5-1198, 5-1199, 5-1228, 5-1229, 5-1263, 5-1266, 5-1270, 6-6, 6-7, 6-9, 6-20, 6-40, 6-78, 6-79, 6-117, 6-118, 6-173, 7-17, 7-21, 7-23–7-25, 7-46–7-51, 7-60, 7-61, 7-62
- ditch, *see* trench
- DOE order, 1-8, 2-150, 2-176, 2-192, 3-94, 3-109, 4-55, 4-182, 8-1
- dose
- absorbed dose, 7-57, 7-62
- chemical dose, 7-57, 7-62
- collective dose, 2-175, 2-191, 4-131–4-135, 4-137, 4-139, 4-140, 4-142, 4-144, 4-146, 4-147, 4-150, 4-151, 4-154, 4-156–4-159, 4-161, 4-162, 4-164–4-167, 4-169, 4-170, 4-172–4-175, 4-177, 4-179–4-182, 4-309–4-315, 4-317, 4-319–4-323, 4-397, 4-399, 4-403, 4-404, 4-406, 4-407, 4-440–4-442, 6-26, 6-27, 6-30–6-33
- cumulative dose, 3-89, 3-158, 4-412, 6-26–6-28, 6-33, 6-34
- cumulative dose to the public, 6-28
- cumulative population dose, 6-28
- dose equivalent, 3-88, 3-89, 3-157, 3-158, 8-10
- dose impact, 2-191, 2-215, 2-233, 2-251, 4-138, 5-304, 5-385, 5-1079, 5-1260, 6-156
- dose rate, 2-44, 2-49, 3-109, 4-131, 4-133, 4-146–4-148, 4-150–4-152
- effective dose equivalent, 3-93, 3-161
- peak dose, 2-215, 2-233, 2-251, 5-303, 5-385, 5-1078, 5-1259, 6-155
- population dose, 2-175, 2-191, 2-217–2-222, 2-224, 2-234, 2-251, 2-255–2-257, 2-259–2-264, 2-266, 2-270–2-272, 2-274–2-279, 2-281, 3-88, 3-157, 4-132, 4-134–4-138, 4-140–4-146, 4-148–4-154, 4-183, 4-186, 4-189, 4-309–4-311, 4-313, 4-325, 4-327, 4-330, 4-333, 4-397–4-402, 4-408, 4-410, 4-412, 5-304, 5-316, 5-317, 5-323, 5-329, 5-330, 5-342, 5-343, 5-349, 5-356, 5-362, 5-385, 5-386, 5-388, 5-1079, 5-1081, 5-1085, 5-1088, 5-1091, 5-1094, 5-1097, 5-1100, 5-1103, 5-1106, 5-1111, 5-1116, 5-1120, 5-1124, 5-1128, 5-1132, 5-1136, 5-1140, 5-1144, 5-1148, 5-1155, 6-26–6-28, 6-32, 6-156, 6-158, 6-160, 6-162

- public dose, 2-148, 4-184, 4-188, 4-310, 4-313, 4-439, 6-30
 - radiation dose to workers, 2-149
 - radiological dose, 1-31, 2-141, 2-216, 2-229, 2-233, 2-237, 2-252, 2-254, 2-269, 2-285, 2-292, 2-294, 3-43, 3-89, 3-158, 4-129, 4-188-4-195, 4-308, 4-309, 4-313, 4-330, 4-331, 4-396, 4-398, 4-411, 4-413, 5-303, 5-371, 5-384, 5-395, 5-1078, 5-1167, 5-1272, 6-30, 6-31, 6-156, 7-20, 7-29
 - total effective dose equivalent (TEDE), 2-215, 2-233, 2-251, 3-27, 4-129, 4-131, 4-132, 4-134, 4-136, 4-137, 4-140, 4-141, 4-143, 4-145, 4-148, 4-149, 4-152-4-154, 4-308, 4-396, 4-398-4-400, 4-450, 5-304, 5-385, 5-1079, 5-1260
 - worker dose, 2-149, 2-175, 2-191, 2-288, 2-290, 2-292, 3-89, 3-158, 4-130-4-137, 4-139-4-141, 4-143-4-145, 4-147-4-149, 4-151-4-154, 4-308, 4-309, 4-311-4-314, 4-396-4-402, 4-439, 4-441, 6-30, 6-33, 6-34, 7-4, 7-5, 7-20
 - year of peak dose, 2-229, 2-237, 2-285, 5-371, 5-386, 5-388, 5-395, 5-1168, 5-1272, 6-156, 6-158, 6-160, 6-162
 - double-contained receiver tank, *see also* tank system
 - double-shell tank (DST), 1-2, 1-13, 1-23, 1-34, 2-1, 2-5, 2-9-2-12, 2-15, 2-17, 2-19-2-21, 2-27, 2-30, 2-65, 2-124, 2-125, 2-129, 2-152, 2-286, 3-47, 3-110, 4-3, 4-46, 4-213, 4-218, 5-2, 5-3, 5-35, 7-8, 7-13, 8-12, 8-14, 8-16, 8-28, *see also* tank system
 - replacement DST, 1-12, 2-68, 2-96, 2-287
 - drinking water standards, 2-212, 2-231, 2-248, 3-53, 3-57, 5-1260, 6-156
- E**
- earthquake, 3-35, 3-36, 3-136-3-138, 4-55, 4-279, 4-283, 4-374, 8-24
 - active fault, 3-37, 3-38
 - beyond-design-basis earthquake, 4-56, 4-279, 4-374, 4-376, 4-377, 4-379
 - capable fault, 3-133, 3-138
 - earthquake magnitude, 3-36, 3-137
 - peak ground acceleration, 3-36, 3-137
 - seismic, 3-36, 3-136-3-138, 4-282-4-284, 4-316, 4-403, 4-404, 4-406, 4-407, 8-24
 - seismicity, 3-27, 3-35, 3-136, 4-283
 - spectral acceleration, 3-36, 3-136
 - ecology, 1-1, 1-2, 1-3, 1-4, 1-6, 1-8-1-11, 1-13, 1-16, 1-18, 1-36, 1-39-1-41, 1-44, 1-47, 1-48, 2-3, 2-4, 2-15, 2-29, 2-59, 2-68, 2-71, 2-73, 2-75, 2-79, 2-83, 2-87, 2-91, 2-95, 2-99, 2-103, 2-115, 2-127, 2-310, 2-311, 3-4, 3-9, 3-10, 3-23-3-27, 3-41, 3-42, 3-44, 3-76, 3-77, 3-90, 3-114, 3-178-3-182, 4-66, 4-219, 4-286-4-288, 4-380, 4-381, 4-446, 4-450, 6-4, 6-8, 6-10, 6-12, 6-13, 6-15, 6-17, 6-18, 6-21, 6-27, 6-30, 6-36, 6-38, 6-166, 6-173, 6-177, 6-180, 7-1, 7-2, 7-4, 7-5, 7-31, 7-66, 8-5-8-8, 8-10-8-14, 8-16, 8-25, 8-27-8-30, 8-33, 8-34
 - ecological resource, 1-44, 2-146, 2-161, 2-174, 2-182, 2-190, 2-198, 2-228, 2-229, 2-236, 2-283, 2-284, 3-1, 3-58, 3-146, 3-186, 4-80, 4-82, 4-90, 4-91, 4-291, 4-384, 4-385, 4-434-4-436, 5-362, 5-390, 5-391, 5-393, 5-1162, 5-1163, 5-1165-5-1167, 5-1269, 6-3, 6-5, 6-19, 6-20, 6-164, 6-167, 7-5, 7-6, 7-16, 7-26, 7-28, 7-29, 7-31, 7-64, 7-65, 8-3, 8-19
 - ecological risk, 1-43, 2-128, 2-136, 2-203, 2-225, 2-235, 2-283, 2-285, 2-295, 5-1, 5-362, 5-390, 5-1162, 6-3, 6-42, 6-164, 6-165, 6-167, 6-177, 7-57, 7-62
 - ecosystem, 3-146, 7-28, 7-57, 7-62
 - long-term ecological risk, 6-164
 - economic characteristics, 2-147, 2-174, 2-191, 3-81, 4-109, 4-113, 4-118, 4-120, 4-123, 4-126, 4-127, 4-303, 4-392
 - Effluent Treatment Facility (ETF), 1-34, 1-42, 2-30, 2-43, 2-69, 2-72, 2-76, 2-79, 2-83, 2-88, 2-93, 2-97, 2-100, 2-103, 2-140, 2-155, 2-178, 2-190, 2-288-2-290, 3-23, 3-25, 3-27, 3-42, 3-46, 3-51, 3-111, 3-115, 3-116, 4-2, 4-3, 4-20, 4-46, 4-67-4-73, 4-75-4-79, 4-125, 4-134, 4-136, 4-137, 4-140, 4-141, 4-218, 4-344, 4-382, 4-444, 5-421, 5-447, 5-473, 5-499, 5-500, 5-502, 5-527, 5-552, 5-570, 5-596, 5-613, 5-640, 5-667, 5-670, 5-672, 5-720, 5-721, 5-751, 5-781, 5-782, 5-811, 5-812, 5-844, 5-875, 5-903, 5-904, 5-933, 5-958, 5-987, 5-1018, 5-1049, 5-1050, 5-1082, 5-1085, 5-1088, 5-1091, 5-1094, 5-1097, 5-1100, 5-1103, 5-1106, 5-1111, 5-1116, 5-1120, 5-1124, 5-1128, 5-1132, 5-1136, 5-1140, 5-1144, 5-1148, 5-1155, 5-1263, 5-1266, 7-13, 8-29
 - electrometallurgical treatment, 1-34, 1-38
 - emergency, 1-23, 2-65, 2-69, 2-126, 3-15, 3-16, 3-24, 3-25, 3-27, 3-87, 3-94, 3-95, 3-161, 4-66, 4-156, 4-264, 4-286, 4-316, 4-402, 4-404, 5-3, 5-372, 6-15, 7-13, 8-25, 8-26
 - emergency planning, 3-95, 3-161, 8-26
 - emergency preparedness, 3-161, 4-405
 - emergency response planning guideline (ERPG), 4-318, 4-319, 4-324
 - ERPG-2, 4-318, 4-319, 4-324
 - ERPG-3, 4-318, 4-319, 4-324
 - emission, *see also* air pollutant, air quality, criteria pollutant, National Ambient Air Quality Standards, National Emission Standards on Hazardous Air Pollutants, pollutant
 - air pollutant emission, 2-287, 2-290, 2-292, 3-19, 4-32, 4-270, 4-363, 6-15, 6-16
 - emission standard, 4-34, 4-272, 4-365
 - fugitive emission, 4-130
 - nonradioactive emission, 3-25, 8-28
 - radioactive air emission, 8-8
 - radiological emission, 2-54, 4-138, 4-198, 4-200-4-203, 4-205-4-208, 4-210, 4-211, 4-336-4-340, 4-398, 4-417, 6-26, 6-31, 7-4, 7-25
 - entombment, 2-109, 2-185, 4-265, 4-281, 4-310, 4-311, 5-380, 5-385, 7-14, 7-22, 7-25, 7-41, 7-43, 7-45, 7-58, 7-60
 - entrainment, 2-38
 - environmental assessment (EA), 1-8, 1-9, 1-31, 1-34-1-36, 1-38-1-41, 1-44-1-47, 2-44, 2-110, 2-309, 2-310, 3-34, 3-175-3-177, 3-180, 4-308, 4-309, 4-449, 4-450, 6-175, 6-176, 8-1, 8-5
 - environmental consequences, 1-20, 1-33, 1-34, 1-38, 2-142, 3-1, 4-196, 7-1, 8-5, *see also* cumulative impacts, environmental impact
 - long-term environmental consequences, 2-203
 - environmental impact, 1-1, 1-4, 1-5, 1-7-1-9, 1-11, 1-12, 1-21, 1-25, 1-33-1-39, 1-41-1-43, 2-1, 2-4, 2-18,

- 2-31, 2-59, 2-126–2-128, 2-131, 2-139, 2-142, 2-203, 2-288, 2-289, 2-290, 2-292, 2-295, 2-299, 3-1, 3-43, 3-173, 4-1, 4-34, 4-197–4-201, 4-203–4-205, 4-207–4-210, 4-212, 4-279, 4-335, 4-337–4-342, 4-374, 4-416, 4-418, 4-443, 5-1, 5-2, 5-3, 5-396, 6-1, 6-8, 6-15, 6-38, 7-1, 7-2, 7-6, 7-22, 7-23, 8-5, 8-6, *see also* cumulative impacts, environmental consequences
- unavoidable adverse environmental impact, 1-43, 7-23, 7-28, 7-54
- environmental impact statement (EIS), 1-1, 1-4–1-18, 1-20–1-25, 1-28, 1-30, 1-34, 1-36–1-47, 1-49, 2-1, 2-4, 2-5, 2-11, 2-12, 2-15, 2-23, 2-25–2-27, 2-30–2-32, 2-44, 2-46–2-48, 2-56, 2-57, 2-59, 2-61, 2-63, 2-65, 2-72, 2-101, 2-106, 2-124, 2-126, 2-127, 2-130, 2-141, 2-142, 2-145, 2-149, 2-150, 2-152, 2-172, 2-176, 2-188, 2-192, 2-203, 2-214, 2-225, 2-235, 2-283, 2-287, 2-299, 2-307, 2-309, 2-310, 2-312, 3-1, 3-2, 3-7, 3-9, 3-10, 3-18, 3-34, 3-74, 3-80, 3-111, 3-130, 3-169, 3-173, 3-175–3-178, 3-183, 3-184, 3-186, 3-188, 4-6–4-14, 4-16, 4-34, 4-51, 4-55, 4-105, 4-157, 4-161, 4-163, 4-166, 4-168, 4-171, 4-173, 4-176, 4-178, 4-180, 4-183, 4-184, 4-212–4-215, 4-218, 4-219, 4-225, 4-234, 4-237, 4-240, 4-272, 4-302, 4-308, 4-316, 4-318, 4-320, 4-325, 4-343, 4-352, 4-365, 4-391, 4-408, 4-419, 4-422, 4-423, 4-426, 4-427, 4-436, 4-437, 4-449, 4-450, 4-452, 5-1, 5-3, 5-4, 5-9, 5-362, 5-396, 5-1168, 5-1169, 5-1269, 5-1272, 6-1–6-7, 6-9, 6-11, 6-14, 6-15, 6-19, 6-22, 6-24, 6-25, 6-28, 6-29, 6-34, 6-39, 6-42, 6-43, 6-70, 6-77, 6-78, 6-109, 6-115, 6-116, 6-148, 6-154, 6-164–6-167, 6-169–6-172, 6-174, 6-175, 6-177–6-180, 7-1–7-3, 7-5–7-12, 7-15, 7-21–7-26, 7-34, 7-35, 7-54, 7-56, 7-66, 7-67, 8-5, 8-6, 8-9–8-11, 8-16, 8-17, 8-19–8-21, 8-31, 8-33
- environmental justice, 1-44, 2-151, 2-166, 2-177, 2-185, 2-193, 2-202, 2-203, 2-229, 2-237, 2-285, 2-312, 3-1, 3-2, 3-95, 3-96, 3-161, 3-174, 3-188, 3-189, 4-196, 4-198–4-202, 4-204–4-207, 4-209–4-211, 4-334–4-338, 4-340–4-343, 4-415–4-418, 4-443, 4-452, 5-370, 5-395, 5-1167, 5-1272, 6-3, 6-42, 6-170, 7-1, 8-5, 8-27
- Environmental Protection Agency, *see* U.S. Environmental Protection Agency
- Environmental Restoration Disposal Facility (ERDF), 2-49, 3-4, 3-51, 3-53, 3-112–3-115, 3-183, 4-130, 4-132–4-134, 4-136, 4-138–4-143, 4-145, 4-148, 4-149, 4-152, 4-153, 4-155, 4-214, 6-10, 6-15, 6-17, 6-23, 6-29–6-31, 6-37, 6-38, 6-175, 6-180
- environmental restoration, 1-34, 1-44, 1-46, 1-49, 2-30, 2-49, 2-151, 2-177, 2-194, 3-4, 3-48, 3-114, 3-119, 3-175, 3-177, 3-183, 3-188, 4-130, 4-132, 4-134, 4-136, 4-138, 4-139, 4-141, 4-143, 4-145, 4-148, 4-149, 4-152–4-155, 4-444, 6-10, 6-15, 6-17, 6-29, 6-30, 6-33, 6-175, 6-180
- environmental restoration activities, 2-151, 2-177, 2-194, 4-444, 6-29
- Executive order, 1-43, 8-1, 8-6, 8-26, 8-27
- Experimental Breeder Reactor II (EBR-II), 1-31, 1-34, 1-36, 1-38, 2-48, 2-111, 2-114, 3-121, 3-124, 3-126, 3-152
- exposure, 2-49, 2-125, 2-127, 2-141, 2-148, 2-149, 2-175, 2-192, 2-193, 2-215, 2-225, 2-229, 2-233, 2-236, 2-237, 2-251, 2-283, 2-284, 2-285, 3-1, 3-87, 3-89–3-95, 3-109, 3-157–3-161, 4-35, 4-60, 4-62, 4-129–4-134, 4-136, 4-137, 4-140, 4-141, 4-143, 4-145–4-155, 4-159, 4-162, 4-163, 4-167, 4-168, 4-171, 4-175, 4-176, 4-178, 4-181, 4-182, 4-184, 4-188–4-192, 4-196–4-199, 4-201–4-204, 4-206–4-209, 4-211, 4-272, 4-308, 4-311–4-313, 4-316, 4-318, 4-320–4-322, 4-329, 4-330, 4-335–4-340, 4-365, 4-396, 4-398–4-401, 4-403, 4-405, 4-409, 4-412, 4-416, 4-417, 4-441, 4-443, 5-303, 5-304, 5-316, 5-317, 5-323, 5-329, 5-330, 5-342, 5-343, 5-349, 5-356, 5-362, 5-365–5-371, 5-384–5-386, 5-388, 5-391, 5-393, 5-394, 5-395, 5-422, 5-1078, 5-1079, 5-1082, 5-1085, 5-1088, 5-1091, 5-1094, 5-1097, 5-1100, 5-1103, 5-1106, 5-1111, 5-1116, 5-1120, 5-1124, 5-1128, 5-1132, 5-1136, 5-1140, 5-1144, 5-1148, 5-1155, 5-1162, 5-1163, 5-1165–5-1167, 5-1260, 5-1269, 5-1272, 6-27–6-30, 6-164, 6-171, 7-4, 7-5, 7-20, 7-21, 7-27, 7-54, 7-57, 7-59, 7-61, 7-64, 8-13, 8-23
- exposure pathway, 3-92, 3-159, 4-129, 4-308, 4-396, 5-393, 5-394, 6-27, 6-30, 7-64
- ## F
- Fast Flux Test Facility (FFTF), 1-1, 1-8, 1-9, 1-11, 1-13–1-15, 1-17, 1-20,–1-22, 1-30–1-36, 1-38, 1-40–1-50, 2-1, 2-2, 2-38, 2-39, 2-40–2-44, 2-46, 2-47, 2-56–2-59, 2-61, 2-62, 2-105–2-115, 2-120, 2-123, 2-124, 2-126–2-128, 2-134–2-139, 2-142, 2-151, 2-170–2-185, 2-193, 2-194, 2-202–2-204, 2-229–2-237, 2-253, 2-255–2-264, 2-266, 2-268, 2-270–2-274, 2-276–2-279, 2-281, 2-285, 2-294–2-296, 2-299, 2-304, 2-305, 2-307–2-310, 3-4, 3-10, 3-12, 3-15, 3-16, 3-21, 3-27, 3-42, 3-43, 3-46, 3-52, 3-57, 3-67, 3-68, 3-76, 3-78, 3-79, 3-90, 3-96, 3-116, 3-119, 3-174–3-176, 3-179, 3-180, 3-183, 3-189, 4-1, 4-55, 4-130, 4-212, 4-256, 4-257, 4-259–4-274, 4-276–4-282, 4-284–4-287, 4-290–4-299, 4-301–4-319, 4-322–4-329, 4-333–4-335, 4-341, 4-343–4-350, 4-352, 4-353, 4-359, 4-413, 4-415–4-419, 4-422, 4-425–4-451, 5-1, 5-303, 5-371–5-394, 5-395–5-401, 5-419–5-421, 5-446, 5-447, 5-472, 5-473, 5-498–5-500, 5-502, 5-526, 5-527, 5-551, 5-569, 5-570, 5-595, 5-612, 5-639, 5-640, 5-666, 5-667, 5-670, 5-672, 5-719, 5-724, 5-750, 5-754, 5-780, 5-781, 5-811, 5-815, 5-843, 5-847, 5-874, 5-878, 5-902, 5-906, 5-932, 5-936, 5-957, 5-958, 5-961, 5-986, 5-987, 5-990, 5-1017, 5-1021, 5-1048, 5-1049, 5-1078, 5-1081, 5-1085, 5-1088, 5-1091, 5-1094, 5-1097, 5-1100, 5-1103, 5-1106, 5-1111, 5-1116, 5-1120, 5-1124, 5-1128, 5-1132, 5-1136, 5-1140, 5-1144, 5-1148, 5-1155, 5-1168–5-1171, 5-1196–5-1199, 5-1226–5-1229, 5-1258–5-1260, 5-1263, 5-1266, 5-1269, 6-3, 6-6, 6-7, 6-9, 6-10, 6-20, 6-30, 6-39, 6-43, 6-44, 6-77–6-79, 6-115–6-118, 6-154, 6-164, 6-172, 6-173, 6-179, 7-1, 7-7, 7-9, 7-12, 7-14, 7-15, 7-17, 7-18, 7-21–7-25, 7-28, 7-30, 7-33, 7-34, 7-41–7-46, 7-54, 7-57–7-60, 7-62–7-64, 7-67, 8-10, 8-14, 8-16, 8-19, 8-21, 8-28, 8-29
- FFTF deactivation, 1-9, 1-40, 2-173, 3-116, 4-265, 4-308, 4-309, 8-14, 8-28

- FFTF decommissioning, 1-10, 1-11, 1-13, 1-15, 1-33, 1-40, 1-42, 1-43, 2-40, 2-42, 2-56, 2-58, 2-59, 2-62, 2-115, 2-120, 2-123, 2-124, 2-128, 2-137, 2-138, 2-170, 2-173, 2-175, 2-176, 2-178, 2-193, 2-237, 2-253, 2-255-2-264, 2-266, 2-268, 2-270-2-274, 2-276-2-279, 2-281, 2-295, 2-296, 2-307, 2-308, 4-268, 4-282, 4-302, 4-318, 4-325, 4-352, 4-426, 4-432, 4-433, 4-436, 4-444, 4-446, 5-395-5-401, 5-419, 5-420, 5-719, 5-1081, 5-1085, 5-1088, 5-1091, 5-1094, 5-1097, 5-1100, 5-1103, 5-1106, 5-1111, 5-1116, 5-1120, 5-1124, 5-1128, 5-1132, 5-1136, 5-1140, 5-1144, 5-1148, 5-1155, 5-1168, 5-1169, 5-1197, 5-1227, 5-1259, 6-78, 6-116, 7-1, 7-23, 7-28, 7-30, 7-58, 7-62
- FFTF disposition, 4-359, 5-372
- fatality, 2-151, 2-169, 2-177, 2-185, 2-193, 2-202, 4-156, 4-183, 4-185, 4-187, 4-189, 4-190, 4-192, 4-195, 4-252, 4-254, 4-316, 4-402, 4-408, 4-410, 4-425, 6-27, 6-32, 6-33, 6-41, *see also* illness, injury
- Federal Register (FR), 1-3, 1-4, 1-6-1-11, 1-13-1-15, 1-17, 1-18, 1-20, 1-23, 1-30, 1-34, 1-36-1-43, 1-49, 1-50, 2-4, 2-115, 2-126, 2-143, 2-312, 2-313, 3-2, 3-5-3-7, 3-9, 3-10, 3-22, 3-43, 3-71, 3-72, 3-80, 3-95, 3-112, 3-113, 3-117-3-119, 3-129, 3-149, 3-150, 3-172, 3-173, 3-188, 3-189, 4-6-4-14, 4-16, 4-219, 4-427, 4-446, 4-452, 6-7, 6-25, 6-38, 6-39, 6-180, 6-181, 7-2, 7-3, 7-5-7-9, 7-12, 7-67, 8-6, 8-7, 8-20, 8-23, 8-34
- Federal species of concern, 3-72, 4-85, 4-386, 4-436, 7-17
- FFTF Decommissioning alternative, 2-1, 2-43, 2-57, 2-58, 2-61, 2-105, 2-128, 2-134, 2-138, 2-142, 2-170-2-178, 2-185, 2-193, 2-202, 2-229-2-231, 2-235-2-237, 2-294, 2-295, 2-304, 2-308, 4-256, 4-263, 4-268, 4-270, 4-279, 4-302, 4-308, 4-309, 4-311, 4-313, 4-315, 4-316, 4-318, 4-323, 4-324, 4-328, 4-335, 4-343, 4-344, 4-348, 4-419, 4-439, 5-371, 5-390, 5-395, 6-43, 7-15, 7-17, 7-23, 7-25, 7-42, 7-45, 7-57, 7-58, 7-60, 7-62
- FFTF Decommissioning Alternative 1, 1-30, 2-2, 2-58, 2-105-2-107, 2-134-2-136, 2-173, 2-177, 2-178, 2-231, 2-233-2-237, 2-294, 4-256, 4-268, 4-274, 4-286, 4-287, 4-309, 4-316-4-318, 4-322, 4-334, 4-335, 4-343, 4-344, 5-371-5-377, 5-379, 5-383, 5-385-5-391, 5-395, 5-1169, 5-1170, 5-1171, 5-1196, 5-1259, 5-1260, 5-1263, 5-1269, 6-77, 6-172, 6-173, 7-63, 7-64
- FFTF Decommissioning Alternative 2, 1-30, 1-32, 2-2, 2-41-2-43, 2-58, 2-107-2-110, 2-112-2-114, 2-134, 2-170-2-175, 2-177, 2-231, 2-234, 2-235, 2-294, 4-256, 4-269, 4-274, 4-310, 4-312, 4-318, 4-324, 4-325, 4-344, 4-347, 4-418, 4-426, 4-431, 4-447, 5-371, 5-379-5-383, 5-388-5-390, 5-393, 5-420, 5-446, 5-472, 5-498, 5-526, 5-569, 5-595, 5-612, 5-639, 5-666, 5-719, 5-750, 5-780, 5-811, 5-843, 5-874, 5-902, 5-932, 5-1017, 5-1048, 5-1168, 5-1197-5-1199, 5-1226, 5-1227, 5-1259, 5-1263, 5-1266, 6-40, 6-115, 6-173, 7-41, 7-43, 7-45, 7-58-7-60, 7-63, 7-64
- FFTF Decommissioning Alternative 3, 1-21, 1-32, 2-2, 2-41-2-43, 2-58, 2-111-2-114, 2-134, 2-170, 2-231, 2-232, 2-235, 2-294, 4-256, 4-270, 4-277, 4-278, 4-314, 4-315, 4-324, 4-325, 4-341, 4-347, 4-348, 4-426, 4-427, 4-429, 4-434-4-436, 5-371, 5-384, 5-390, 5-393, 5-394, 5-395, 5-421, 5-447, 5-473, 5-499, 5-500, 5-502, 5-527, 5-551, 5-570, 5-640, 5-667, 5-670, 5-672, 5-724, 5-754, 5-781, 5-815, 5-847, 5-878, 5-906, 5-936, 5-958, 5-961, 5-987, 5-990, 5-1021, 5-1049, 5-1168, 5-1228, 5-1229, 5-1258, 5-1259, 5-1266, 6-6, 6-7, 6-9, 6-20, 6-154, 6-173, 7-12, 7-24, 7-41, 7-43, 7-45, 7-58-7-60, 7-63, 7-64
- fill material, 4-13, 4-28, 4-102, 4-268, 4-362, 8-9
- Finding of No Significant Impact (FONSI), 1-8, 1-30, 1-31, 1-34-1-36, 1-38, 1-39, 1-41, 2-105, 2-106, 2-110, 2-113, 2-135, 3-119, 3-175-3-177, 8-5
- fissile material, 2-45
- fission product, 1-2, 2-43, 3-48
- Fitzner-Eberhardt Arid Lands Ecology Reserve (ALE), 1-4, 1-41, 1-47, 3-6, 3-7, 3-10-3-12, 3-67, 3-68, 3-73, 7-7
- floodplain, 2-146, 3-61, 3-141, 3-153, 4-65, 4-66, 7-13, 8-10
- Fuel and Materials Examination Facility (FMEF), 3-4, 3-12, 3-15, 3-46
- fuel rod, 1-2, 3-47
- full-time equivalent (FTE), 2-147, 2-169, 2-185, 2-202, 4-105, 4-107-4-111, 4-113, 4-115-4-117, 4-120, 4-122, 4-125, 4-127, 4-129, 4-130, 4-132, 4-134-4-139, 4-141, 4-143-4-145, 4-147-4-149, 4-151-4-155, 4-303, 4-305, 4-308, 4-309, 4-392, 4-396-4-401, 4-438, 4-439, 4-441, 6-25, 7-20, 7-33, 7-41, 7-46, 7-51, 7-53

G

- geology, 2-145, 2-159, 2-172, 2-173, 2-181, 2-188, 2-189, 2-197, 3-1, 3-2, 3-27-3-30, 3-37, 3-38, 3-132, 3-137, 3-182, 3-183, 4-50, 4-54-4-59, 4-61, 4-63-4-65, 4-95, 4-279, 4-281-4-285, 4-374, 4-376, 4-377-4-379, 4-432, 4-433, 5-2, 6-3, 6-5, 6-16, 7-1, 7-3, 7-5, 7-11, 7-25, 7-30, *see also* soil
- geologic feature, 3-47, 3-133, 3-134
- geologic hazard, 3-27, 3-35, 3-136
- geologic repository, 1-9, 1-14, 1-22, 1-36-1-38, 1-46, 3-118, 3-171, 8-17
- geologic resource, 1-38, 2-145, 2-159, 2-172, 2-181, 2-188, 2-189, 2-197, 2-287, 2-292, 2-294, 3-34, 3-35, 4-51, 4-54-4-65, 4-279, 4-281-4-285, 4-374, 4-376-4-379, 4-432-4-434, 7-11, 7-12, 7-24, 7-25, 7-29, 7-30, 7-34, 7-48
- geology and soils, 2-145, 2-159, 2-172, 2-173, 2-181, 2-188, 2-189, 2-197, 3-1, 3-2, 3-132, 4-50, 4-54-4-59, 4-61, 4-63-4-65, 4-279, 4-281-4-285, 4-374, 4-376-4-379, 4-433, 6-3, 6-5, 6-16, 7-1, 7-11, 7-25
- global climate, 2-188, 6-171, 6-172, 6-178, *see also* global warming, greenhouse effect
- Global Nuclear Energy Partnership (GNEP), 1-50
- global warming, 6-171, *see also* global climate, greenhouse effect
- greater-than-Category 3 waste, *see also* low-level radioactive waste
- greater-than-Class C waste (GTCC waste), 1-35, 6-35, 6-39
- GTCC low-level radioactive waste, 1-41, 6-39, *see also* low-level radioactive waste
- greenhouse effect, 6-171, *see also* global climate, global warming

- groundwater, 1-10, 1-13, 1-16, 1-17, 1-19, 1-39, 1-40, 1-43, 1-44, 2-4, 2-9, 2-33–2-37, 2-43, 2-57, 2-95, 2-127, 2-132–2-134, 2-141, 2-146, 2-160, 2-173, 2-174, 2-182, 2-189, 2-198, 2-203–2-211, 2-214, 2-215, 2-217, 2-222, 2-225, 2-227–2-231, 2-233–2-247, 2-251, 2-253, 2-268, 2-283, 2-284, 2-286, 2-290–2-294, 2-298, 2-307, 3-2, 3-4, 3-17, 3-38, 3-39, 3-41–3-44, 3-46–3-53, 3-56–3-58, 3-90, 3-115, 3-126, 3-140, 3-143, 3-144, 3-146, 3-180, 3-186, 4-54, 4-65–4-75, 4-77, 4-79, 4-80, 4-82, 4-84–4-89, 4-91, 4-93, 4-94, 4-215, 4-216, 4-225, 4-226, 4-231, 4-232, 4-234, 4-237, 4-238, 4-240, 4-244, 4-248, 4-265–4-267, 4-286–4-290, 4-374, 4-377, 4-380–4-384, 4-427, 4-434, 4-444, 5-1–5-4, 5-6–5-9, 5-11, 5-14–5-36, 5-38–5-40, 5-42, 5-45–5-74, 5-76, 5-80–5-106, 5-108–5-110, 5-112, 5-116–5-143, 5-145, 5-149, 5-151–5-174, 5-177–5-179, 5-181, 5-182, 5-186, 5-194–5-240, 5-242–5-248, 5-258–5-303, 5-362, 5-364–5-370, 5-372–5-375, 5-377–5-385, 5-390–5-393, 5-395, 5-401–5-405, 5-409–5-424, 5-426–5-428, 5-432–5-447, 5-449, 5-452, 5-454, 5-458–5-475, 5-478, 5-479, 5-483–5-502, 5-504–5-506, 5-512–5-530, 5-532–5-534, 5-537–5-557, 5-560–5-570, 5-572, 5-574–5-577, 5-581–5-596, 5-598, 5-600, 5-603–5-613, 5-615, 5-617–5-620, 5-624–5-640, 5-642, 5-644–5-647, 5-651, 5-653–5-667, 5-670–5-672, 5-677–5-680, 5-682, 5-691–5-718, 5-719, 5-720, 5-722, 5-723, 5-725, 5-726, 5-728–5-731, 5-734–5-753, 5-756, 5-757, 5-759–5-761, 5-764–5-784, 5-786, 5-787, 5-789–5-791, 5-796–5-814, 5-817, 5-818, 5-820–5-822, 5-827–5-846, 5-849, 5-850, 5-852–5-854, 5-858–5-877, 5-880–5-882, 5-887–5-905, 5-907, 5-908, 5-910–5-912, 5-918–5-935, 5-937–5-939, 5-942–5-960, 5-962, 5-963, 5-965–5-967, 5-971–5-989, 5-991, 5-992, 5-994–5-996, 5-1002–5-1023, 5-1025–5-1027, 5-1031, 5-1033–5-1051, 5-1053, 5-1054, 5-1056–5-1058, 5-1063–5-1078, 5-1162, 5-1164–5-1171, 5-1173, 5-1175, 5-1177–5-1200, 5-1203–5-1259, 5-1269–5-1273, 6-1, 6-3, 6-5, 6-18, 6-19, 6-30, 6-38, 6-42–6-44, 6-46, 6-49, 6-51–6-79, 6-81, 6-84, 6-86–6-119, 6-121, 6-124–6-155, 6-164, 6-167, 6-169–6-171, 7-3, 7-5–7-7, 7-13–7-15, 7-18, 7-21, 7-22, 7-25–7-28, 7-31, 7-32, 7-57, 7-59, 7-62, 7-64, 7-65, 8-6, 8-10, 8-12–8-14, 8-18, 8-29, *see also* aquatic resource, surface water, water
- groundwater quality, 2-173, 2-203, 2-229, 2-237, 3-53, 3-140, 4-67–4-70, 4-72–4-75, 4-77, 4-80, 4-215, 4-226, 4-232, 4-238, 4-290, 6-3, 6-18, 6-42, 7-13, 7-14, 7-31, 8-10
- maximum concentrations in groundwater, 5-791, 5-822, 5-854, 5-882, 5-912, 5-939, 5-967, 5-996, 5-1027, 5-1058
- perched groundwater, 3-146
- unconfined aquifer, 2-142, 2-146, 2-290, 3-17, 3-38, 3-43, 3-49, 3-51–3-53, 3-56, 3-57, 4-67–4-69, 4-71–4-75, 4-77, 4-79, 4-80, 5-2, 5-1082, 5-1170, 5-1198, 5-1228, 6-43, 6-44, 6-78, 6-117, 7-13
- grout, 1-19, 1-23, 1-24, 1-26–1-28, 1-30, 1-34, 1-39, 2-27–2-29, 2-32, 2-33, 2-38, 2-42, 2-53, 2-61, 2-65, 2-69, 2-73, 2-77, 2-81, 2-85, 2-89, 2-93, 2-104, 2-107, 2-111–2-113, 2-126, 2-133, 2-145, 2-167, 2-171, 2-173, 2-261, 2-274, 2-276, 2-288, 2-289, 2-308, 3-113, 4-17, 4-20, 4-22, 4-27, 4-51–4-54, 4-56, 4-59–4-62, 4-68–4-70, 4-72–4-75, 4-80, 4-112, 4-114, 4-185, 4-188–4-195, 4-212, 4-238, 4-239, 4-259, 4-265, 4-267, 4-272, 4-274, 4-275, 4-277, 4-278, 4-280–4-282, 4-284, 4-287, 4-331, 4-334, 4-347, 4-353, 4-374, 4-375, 4-377, 4-411, 4-413, 5-398, 5-400, 5-552, 5-874, 5-875, 7-13–7-15, 7-24, 7-28, 7-36–7-40, 7-43, 7-44, 7-48, 7-49, 7-52, *see also* in-trench grouting, secondary waste, cast stone grout fill, 1-39
- ## H
- habitat, 1-40, 2-146, 2-174, 2-186, 2-190, 2-292, 3-41, 3-58, 3-61–3-63, 3-67, 3-68, 3-72–3-74, 3-123, 3-146, 3-147, 3-149, 3-150, 3-187, 4-81–4-84, 4-86–4-92, 4-94, 4-353, 4-354, 4-385–4-387, 4-435, 4-436, 6-19, 6-20, 6-21, 7-17, 7-18, 7-23, 7-26–7-28, 8-19
- critical habitat, 3-73, 3-149
- priority habitat, 2-146, 3-58, 3-63, 3-73, 3-186
- Hanford Federal Facility Agreement and Consent Order, 1-3, 1-47, 1-48, 2-15, 2-310, 3-114, 3-115, 6-2, 8-2, 8-12, 8-14, 8-33, *see* Tri-Party Agreement
- Hanford Reach National Monument, 1-40, 1-48, 2-229, 2-285, 3-2, 3-6, 3-7, 3-9, 3-19, 3-31, 3-34, 3-185, 3-188, 5-371, 5-1167, 5-1272, 6-7, 6-10, 6-12, 6-17, 6-18, 6-23–6-25, 6-37, 6-171, 6-180, 8-34
- Hanford Option, *see* remote-handled special component
- Hanford Reuse Option, *see* bulk sodium
- Hanford Site Solid Waste Acceptance Criteria (HSSWAC), 2-56, 2-311, 3-113, 3-180, 8-18
- Hanford Tank Waste Operation Simulator, *see* tank system
- Hazard Index, 2-214–2-222, 2-225, 2-228, 2-229, 2-232–2-234, 2-236, 2-237, 2-251–2-257, 2-259–2-264, 2-266, 2-268–2-273, 2-275–2-279, 2-281, 2-284, 2-285, 3-91, 4-35, 4-37, 4-272, 4-273, 4-365, 4-367, 5-303–5-316, 5-318–5-322, 5-324–5-335, 5-337–5-348, 5-350–5-355, 5-357–5-362, 5-364–5-371, 5-384–5-393, 5-395, 5-1078–5-1081, 5-1083, 5-1085, 5-1086, 5-1088, 5-1089, 5-1091, 5-1092, 5-1094, 5-1095, 5-1097, 5-1098, 5-1100, 5-1101, 5-1103, 5-1104, 5-1106–5-1108, 5-1111–5-1113, 5-1116–5-1118, 5-1120–5-1122, 5-1124–5-1126, 5-1128–5-1130, 5-1132–5-1134, 5-1136–5-1138, 5-1140–5-1142, 5-1144, 5-1145, 5-1146, 5-1148, 5-1149–5-1152, 5-1155–5-1159, 5-1162, 5-1164, 5-1167, 5-1259–5-1261, 5-1263, 5-1264, 5-1266, 5-1267, 5-1271, 5-1272, 6-155–6-157, 6-159, 6-161, 6-163, 6-171
- Hazard Quotient, 2-214, 2-225–2-228, 2-235, 2-236, 2-283, 2-284, 3-91, 4-35, 4-37, 4-272, 4-273, 4-365, 4-367, 5-303, 5-362–5-370, 5-384, 5-390–5-393, 5-1078, 5-1162, 5-1163–5-1167, 5-1259, 5-1269–5-1271, 6-155, 6-164–6-167
- hazardous chemical, 2-40, 2-127, 3-53, 3-55, 3-87, 3-90, 3-91, 3-92, 3-158, 3-159, 3-161, 4-38–4-49, 4-156, 4-157, 4-160, 4-163, 4-168, 4-171, 4-176, 4-178, 4-179, 4-182, 4-274, 4-275, 4-277, 4-315, 4-316, 4-318, 4-323, 4-325, 4-335, 4-336, 4-338–4-342, 4-367, 4-370, 4-371, 4-402, 4-404, 4-405, 4-408, 4-416–4-418, 6-37, *see also* chemical environment

hazardous material, 1-14, 1-20, 1-21, 1-30, 1-35, 2-40, 2-42, 2-109, 2-111, 2-113, 2-149, 2-176, 2-192, 3-5, 3-17, 3-91, 3-159, 4-329, 4-337, 4-342, 6-37, 6-175, 6-177, 7-13, 7-20, 7-21, 8-4, 8-25, 8-26

hazardous substance, 1-3, 3-5, 3-95, 3-117, 3-160, 4-66, 6-38, 8-14, 8-26

hazardous waste, 1-1, 1-2, 1-3, 1-10, 1-13, 1-24, 1-26-1-28, 1-30, 1-34, 1-36-1-38, 1-45, 1-49, 1-51, 2-9, 2-10, 2-26, 2-31, 2-32, 2-42, 2-43, 2-73, 2-77, 2-80, 2-84, 2-89, 2-93, 2-104, 2-126, 2-151, 2-154, 2-167, 2-177, 2-178, 2-185, 2-193, 2-194, 2-305, 2-309, 2-312, 3-46, 3-109, 3-110, 3-114, 3-116-3-118, 3-169, 3-171-3-173, 3-176, 3-188, 4-216, 4-218, 4-220-4-224, 4-226-4-228, 4-230, 4-231, 4-233, 4-234, 4-236-4-240, 4-242-4-244, 4-246, 4-247, 4-249-4-251, 4-329, 4-333, 4-343, 4-345, 4-346, 4-404, 4-419-4-421, 4-444-4-447, 6-32, 6-38, 6-175, 6-177, 7-28, 8-2, 8-3, 8-6, 8-11-8-15, 8-18, 8-25, 8-28, *see also* dangerous waste, special waste, waste management

acutely hazardous waste, 8-12

extremely hazardous waste, 8-12

health effect, 2-148, 2-150, 2-214, 3-90-3-92, 3-94, 3-159, 4-35, 4-38-4-49, 4-155, 4-160, 4-183, 4-272, 4-274, 4-275, 4-277, 4-318, 4-319, 4-324, 4-365, 4-367, 4-370, 4-371, 5-303, 5-384, 5-1078

high-efficiency particulate air (HEPA), 2-46, 3-170, 3-171, 7-11

high-integrity container (HIC), 3-113, 7-14

high-level radioactive waste (HLW), 1-2, 1-4, 1-6, 1-7, 1-9, 1-12, 1-14, 1-18-1-20, 1-22, 1-24-1-29, 1-34, 1-36-1-39, 1-41, 1-51, 2-1-2-4, 2-12, 2-23, 2-26, 2-29-2-32, 2-35, 2-57, 2-59, 2-60, 2-63, 2-66, 2-69, 2-72, 2-73, 2-76, 2-77, 2-79, 2-81, 2-83, 2-85, 2-88, 2-89, 2-92-2-101, 2-103, 2-104, 2-125, 2-126, 2-129-2-132, 2-140, 2-141, 2-150-2-152, 2-166, 2-167, 2-169, 2-300, 2-307, 3-4, 3-24, 3-25, 3-47, 3-96, 3-109-3-111, 3-117-3-119, 3-169, 4-2, 4-3, 4-12-4-15, 4-31, 4-61, 4-62, 4-65, 4-76, 4-91, 4-93, 4-158, 4-159, 4-161, 4-162, 4-164-4-167, 4-169, 4-170, 4-172-4-175, 4-177, 4-179-4-183, 4-185, 4-212, 4-213, 4-215, 4-219-4-222, 4-224, 4-225, 4-227-4-230, 4-232, 4-233, 4-235, 4-236, 4-238, 4-239, 4-241-4-243, 4-245-4-251, 4-428, 4-437, 4-444-4-447, 5-35, 5-498, 5-612, 5-902, 5-1260, 5-1266, 6-35, 6-40, 7-5-7-7, 7-9, 7-22-7-24, 7-29, 7-31, 7-32, 7-33, 7-36, 7-41, 7-54, 7-57, 7-64, 7-65, 8-12, 8-14, 8-16-8-18

immobilized high-level radioactive waste (IHLW), 1-12, 1-23-1-29, 1-37, 1-39, 1-42, 2-12, 2-23, 2-25, 2-29, 2-31, 2-59, 2-63, 2-64, 2-66, 2-69, 2-72, 2-73, 2-76, 2-77, 2-79-2-81, 2-83-2-85, 2-88, 2-89, 2-92-2-94, 2-96-2-101, 2-103, 2-104, 2-129-2-132, 2-141, 2-151, 2-166, 2-169, 2-286, 2-288, 2-289, 2-300, 2-304, 2-307, 4-2, 4-3, 4-12, 4-13, 4-16, 4-61, 4-91, 4-112, 4-119, 4-121, 4-124, 4-129, 4-158, 4-159, 4-161, 4-162, 4-164-4-167, 4-169, 4-170, 4-172-4-175, 4-177, 4-179-4-182, 4-185, 4-212, 4-213, 4-219-4-227, 4-229, 4-230, 4-232, 4-233, 4-235, 4-236, 4-238, 4-239, 4-241-4-243, 4-245-4-247, 4-249, 4-250, 5-35, 5-420, 5-446, 5-472, 5-498, 5-526, 5-551, 5-569, 5-595, 5-612, 5-666, 5-719, 5-750, 5-780, 5-843, 5-874, 5-902, 7-5-7-7, 7-16, 7-22, 7-23, 7-34-7-36, 7-57, 8-14

vitrified HLW, 2-31

Hispanic, 3-82, 3-95-3-98, 3-101, 3-154, 3-161-3-163, 4-196-4-212, 4-334-4-342, 4-415-4-419, 4-443

historic resources, 2-147, 2-162, 2-174, 2-182, 2-190, 2-199, 3-1, 3-74, 3-151, 3-152, 4-96-4-105, 4-296-4-299, 4-301, 4-389, 4-390, 4-437, 6-23

historical shipment, 6-31, 6-32

Hot Fuel Examination Facility (HFEF), 3-121, 3-124, 3-142, 3-170, 4-448

housing, 2-23, 2-147, 2-148, 2-163, 2-174, 2-191, 3-81-3-83, 3-153, 3-155, 4-105-4-107, 4-110, 4-112, 4-114-4-116, 4-118, 4-121, 4-123, 4-126, 4-128, 4-302-4-304, 4-306, 4-391-4-393, 4-395, 6-8, 6-16, 7-19, 7-27, 7-41, 7-45, 7-50, 7-53

housing and community services, 2-148, 2-163, 2-175, 3-81, 4-105-4-107, 4-115, 4-116, 4-302, 4-303, 4-391, 4-392, 7-19, 7-27

HSW EIS, 1-2, 1-6, 1-10, 1-13, 1-37, 1-39, 1-40, 2-115, 2-127, 8-6

human health, 1-10, 1-11, 1-17, 1-20, 1-36, 1-43, 2-25, 2-34, 2-58, 2-124, 2-126, 2-128, 2-134, 2-136, 2-141, 2-145, 2-151, 2-166, 2-169, 2-172, 2-177, 2-185, 2-188, 2-193, 2-202, 2-203, 2-214, 2-229, 2-232, 2-234, 2-235, 2-237, 2-251, 2-253, 2-255-2-257, 2-259-2-264, 2-266, 2-268, 2-270-2-273, 2-275-2-279, 2-281, 2-285-2-288, 2-290, 2-291, 2-293, 2-295-2-298, 3-1, 3-2, 3-19, 3-24, 3-43, 3-90, 3-156, 3-158, 3-160, 4-1, 4-35, 4-56, 4-157, 4-160, 4-163, 4-168, 4-171, 4-176, 4-178, 4-179, 4-182, 4-184, 4-197-4-200, 4-202-4-205, 4-207-4-210, 4-212, 4-215, 4-216, 4-225, 4-226, 4-231, 4-232, 4-234, 4-237, 4-238, 4-240, 4-244, 4-248, 4-256, 4-272, 4-279, 4-318, 4-324, 4-325, 4-335, 4-337-4-342, 4-351, 4-365, 4-374, 4-376, 4-377, 4-379, 4-405, 4-416, 4-418, 4-419, 4-426, 5-1, 5-2, 5-303, 5-304, 5-310, 5-317, 5-323, 5-330, 5-336, 5-342, 5-349, 5-356, 5-370, 5-371, 5-384-5-386, 5-388, 5-390, 5-395, 5-1078, 5-1079, 5-1081, 5-1085, 5-1088, 5-1091, 5-1094, 5-1097, 5-1100, 5-1103, 5-1106, 5-1111, 5-1116, 5-1120, 5-1124, 5-1128, 5-1132, 5-1136, 5-1140, 5-1144, 5-1148, 5-1155, 5-1167, 5-1168, 5-1259, 5-1260, 5-1263, 5-1266, 5-1272, 6-16, 6-29, 6-31, 6-155, 6-156, 6-158, 6-160, 6-162, 6-170, 6-171, 7-1, 7-6, 7-20, 7-21, 7-28, 7-64, 7-65, 8-6, 8-13, 8-14, 8-27

human health impacts, 1-36, 2-126, 2-166, 2-185, 2-202, 2-214, 2-232, 2-251, 2-253, 2-268, 2-286-2-288, 2-290, 2-291, 2-293, 2-296-2-298, 4-1, 4-157, 4-160, 4-163, 4-168, 4-171, 4-176, 4-178, 4-179, 4-182, 4-184, 4-225, 4-231, 4-234, 4-237, 4-240, 4-244, 4-248, 4-256, 4-324, 4-325, 4-351, 4-405, 4-426, 5-303, 5-304, 5-310, 5-317, 5-323, 5-330, 5-336, 5-342, 5-349, 5-356, 5-370, 5-371, 5-384-5-386, 5-388, 5-390, 5-395, 5-1078, 5-1079, 5-1081, 5-1085, 5-1088, 5-1091, 5-1094, 5-1097, 5-1100, 5-1103, 5-1106, 5-1111, 5-1116, 5-1120, 5-1124, 5-1128, 5-1132, 5-1136, 5-1140, 5-1144, 5-1148, 5-1155, 5-1167, 5-1168, 5-1259, 5-1260, 5-1263, 5-1266, 5-1272, 6-29, 6-155, 6-156, 6-158, 6-160, 6-162, 7-6, 7-21, 7-64

human health risk, 1-17, 2-234, 2-251, 2-255–2-257, 2-259–2-264, 2-266, 2-270–2-273, 2-275–2-279, 2-281, 3-1, 3-2, 3-156, 4-197–4-200, 4-202–4-205, 4-207–4-210, 4-212, 4-335, 4-337–4-342, 4-416, 4-418, 4-419, 5-2, 5-386, 5-388, 5-1079, 5-1081, 5-1085, 5-1088, 5-1091, 5-1094, 5-1097, 5-1100, 5-1103, 5-1106, 5-1111, 5-1116, 5-1120, 5-1124, 5-1128, 5-1132, 5-1136, 5-1140, 5-1144, 5-1148, 5-1155, 5-1260, 5-1263, 5-1266, 6-16, 6-156, 6-158, 6-160, 6-162, 6-171

long-term human health risk, 2-237, 5-371, 5-395, 5-1168, 5-1272, 6-171

I

Idaho National Engineering and Environmental Laboratory (INEEL), 1-9, 1-22, 1-34, 1-37, 1-38, 1-46, 3-137, 3-159, 3-173, 3-174, 3-177, 3-181

Idaho National Laboratory (INL), 1-9, 1-21, 1-22, 1-31, 1-34, 1-37, 1-38, 1-41, 1-42, 1-46, 1-47, 2-42, 2-44–2-48, 2-58, 2-61, 2-62, 2-105, 2-107, 2-108, 2-110–2-114, 2-135, 2-136, 2-170–2-173, 2-175–2-178, 2-181, 2-183, 2-185, 2-235, 2-308, 3-1, 3-2, 3-118–3-175, 3-177, 3-178, 3-181–3-186, 4-256, 4-259–4-263, 4-267, 4-272, 4-275–4-279, 4-282–4-284, 4-288, 4-289, 4-292–4-294, 4-298–4-300, 4-304–4-308, 4-311–4-315, 4-320–4-324, 4-326–4-330, 4-332, 4-333, 4-338–4-341, 4-344, 4-347, 4-348, 4-351, 4-357, 4-426, 4-427, 4-435, 4-439, 4-442, 4-448, 4-450, 5-372, 5-390, 5-393, 5-394, 6-3, 6-31, 6-33, 6-172, 6-173, 7-7, 7-41–7-43, 7-58, 7-59, 8-1, 8-7, 8-10, 8-15, 8-16, 8-28, 8-29, 8-33

Idaho Nuclear Technology and Engineering Center (INTEC), 1-41, 3-131, 3-132, 3-138, 3-140, 3-141, 3-144, 3-146, 3-171, 3-172

Idaho Option, *see* remote-handled special component

Idaho Reuse Option, *see* bulk sodium

IDF-East, 1-10, 1-13, 1-32, 1-33, 2-54, 2-56, 2-57, 2-62, 2-116, 2-117, 2-120, 2-123, 2-138, 2-139, 2-153, 2-154, 2-186–2-189, 2-191, 2-192, 2-199, 2-202–2-204, 2-237, 2-238, 2-249, 2-251, 2-253–2-271, 2-273, 2-274, 2-276–2-278, 2-281, 2-285, 2-295–2-298, 2-308, 3-19, 3-25, 3-63, 4-216, 4-217, 4-257, 4-259, 4-260, 4-262, 4-291–4-296, 4-344, 4-352–4-357, 4-360–4-363, 4-368, 4-371, 4-374, 4-376–4-391, 4-393–4-395, 4-405, 4-413, 4-415, 4-419, 4-422, 4-423, 4-428, 4-433, 4-437, 4-439, 4-446, 5-396–5-401, 5-403, 5-419–5-422, 5-428, 5-432, 5-445–5-447, 5-454, 5-457, 5-458, 5-471–5-473, 5-480, 5-483, 5-484, 5-497–5-500, 5-502, 5-506, 5-511, 5-512, 5-526, 5-527, 5-534, 5-537, 5-550, 5-551, 5-556, 5-557, 5-560, 5-568–5-570, 5-577, 5-581, 5-594–5-596, 5-600, 5-603, 5-611, 5-612, 5-613, 5-620, 5-621, 5-624, 5-625, 5-639, 5-640, 5-647, 5-648, 5-651, 5-652, 5-666, 5-667, 5-669–5-672, 5-674, 5-681, 5-719–5-721, 5-730, 5-731, 5-734, 5-735, 5-749–5-751, 5-753, 5-761, 5-764, 5-765, 5-779–5-782, 5-784, 5-791, 5-796, 5-810–5-814, 5-822, 5-827–5-829, 5-832, 5-835, 5-838, 5-841–5-846, 5-854, 5-858–5-860, 5-863, 5-866, 5-869, 5-872–5-878, 5-882, 5-883, 5-888, 5-892, 5-895, 5-898, 5-901–5-905, 5-913, 5-918, 5-931–5-933, 5-939, 5-940, 5-942, 5-943, 5-956–5-960,

5-967, 5-970, 5-972, 5-985–5-989, 5-996, 5-1000, 5-1002, 5-1016–5-1018, 5-1027, 5-1031, 5-1033, 5-1047–5-1051, 5-1061, 5-1063, 5-1077, 5-1078, 5-1081, 5-1082, 5-1085, 5-1088, 5-1091, 5-1094, 5-1097, 5-1100, 5-1103, 5-1106, 5-1111, 5-1116, 5-1120, 5-1124, 5-1128, 5-1132, 5-1136, 5-1140, 5-1144, 5-1148, 5-1155, 5-1163, 5-1167, 5-1197, 5-1205, 5-1226, 5-1228, 5-1236, 5-1258, 5-1263, 5-1266, 7-15, 7-21, 7-46, 7-61, 7-63, 7-65

IDF-West, 1-13, 1-33, 2-56, 2-62, 2-120, 2-123, 2-138, 2-139, 2-153, 2-154, 2-203, 2-204, 2-237, 2-238, 2-249, 2-251, 2-268–2-279, 2-281, 2-295–2-297, 2-308, 4-216, 4-217, 4-352, 4-355, 4-356, 4-371, 4-378, 4-379, 4-383, 4-387, 4-388, 4-391, 4-395, 4-415, 4-419, 4-423, 4-446, 5-396, 5-399–5-401

IDF-West, 5-719, 5-720, 5-724, 5-730, 5-731, 5-734, 5-735, 5-748–5-750, 5-754, 5-756, 5-757, 5-761, 5-764, 5-765, 5-778–5-780, 5-785–5-787, 5-791, 5-796, 5-809–5-812, 5-815, 5-817, 5-818, 5-822, 5-827, 5-828, 5-832, 5-835, 5-838, 5-841–5-844, 5-847, 5-849, 5-850, 5-854, 5-858–5-860, 5-863, 5-866, 5-869, 5-872–5-875, 5-878, 5-880–5-883, 5-887, 5-888, 5-892, 5-895, 5-898, 5-901, 5-902, 5-906–5-908, 5-913, 5-918, 5-930–5-933, 5-936, 5-939, 5-940, 5-942, 5-943, 5-956–5-958, 5-961–5-963, 5-967, 5-970, 5-972, 5-984–5-987, 5-990–5-992, 5-996, 5-1000, 5-1002, 5-1015–5-1018, 5-1021, 5-1027, 5-1031, 5-1033, 5-1046–5-1048, 5-1052–5-1054, 5-1061, 5-1063, 5-1076–5-1078, 5-1116, 5-1120, 5-1124, 5-1128, 5-1132, 5-1136, 5-1140, 5-1144, 5-1148, 5-1155, 7-15, 7-21, 7-47, 7-61

illness, 3-91, 3-159, 4-252, 4-255, 4-256, 4-348, 4-423, *see also* fatality, injury

immobilization, *see* high-level radioactive waste, low-activity waste, low-level radioactive waste

indirect job, 4-106, 4-107, 4-110, 4-112, 4-116, 4-117, 4-122, 4-124, 4-392–4-394, *see also* worker, workforce

induction melter, 2-45

industrial safety, 2-155, 2-178, 2-194, 4-254, 4-348, 4-423, 4-447, 6-3, 6-5, 6-40

infrastructure, 1-5, 1-35, 1-41, 2-23, 2-32, 2-43, 2-141, 2-143, 2-151, 2-170, 2-177, 2-186, 2-193, 3-1, 3-9, 3-12, 3-123, 3-124, 4-2, 4-3, 4-7–4-11, 4-15–4-17, 4-19–4-24, 4-26, 4-27, 4-68–4-72, 4-74–4-76, 4-78, 4-79, 4-187, 4-212, 4-263–4-267, 4-286–4-290, 4-343, 4-353, 4-354, 4-356, 4-357, 4-360, 4-380–4-384, 4-419, 4-429, 4-431, 4-444, 4-445, 4-447, 5-3, 5-35, 5-69, 5-105, 5-140, 5-173, 5-238, 6-3, 6-5, 6-8, 6-9, 6-11–6-13, 6-19, 6-34–6-36, 6-39, 7-1, 7-3, 7-4, 7-8, 7-9, 7-18, 7-19, 7-24, 7-26, 7-30, 7-40, 7-45, 7-50, 7-53, 7-55, 7-57, 7-62, 8-15

injection well, 3-52, 3-144

injury, 2-169, 3-93, 4-156, 4-158, 4-161, 4-164, 4-166, 4-169, 4-172, 4-174, 4-177, 4-179, 4-181, 4-184, 4-252, 4-255, 4-256, 4-316, 4-325, 4-348, 4-402, 4-408, 4-423, 7-27, 8-20, *see also* fatality, illness

institutional control, 1-41, 2-60, 2-69, 2-105, 2-135, 2-142, 2-203, 2-214, 2-217, 2-218, 2-234, 2-302, 4-16, 4-25, 4-26, 4-65, 4-138, 4-140, 4-142, 4-144, 4-285, 4-303, 4-305, 5-386, 5-1260, 6-155, 7-21, 7-57, 7-60, 7-62

- in-tank equipment, 2-16, 2-18, 2-19, 2-33
 - in-tank vehicle (ITV), 2-16, 2-18
 - Integrated Disposal Facility (IDF), 1-1, 1-10, 1-13, 1-24–1-30, 1-32, 1-33, 2-2, 2-31–2-33, 2-35, 2-43, 2-44, 2-54–2-58, 2-61, 2-62, 2-69, 2-72, 2-73, 2-77, 2-80, 2-81, 2-84, 2-85, 2-89, 2-93, 2-97, 2-101, 2-104, 2-106, 2-107, 2-109–2-117, 2-120, 2-123, 2-131–2-134, 2-136–2-139, 2-152–2-154, 2-177, 2-178, 2-186–2-194, 2-199, 2-202–2-204, 2-237–2-239, 2-241, 2-242, 2-248, 2-249, 2-251, 2-253–2-279, 2-281, 2-285, 2-288, 2-289, 2-294–2-298, 2-306–2-308, 3-19, 3-25, 3-63, 3-111, 4-214–4-217, 4-221–4-251, 4-256, 4-257, 4-259, 4-260, 4-262, 4-284, 4-290–4-296, 4-326, 4-329, 4-332, 4-333, 4-343, 4-344, 4-347, 4-351–4-357, 4-359–4-363, 4-367, 4-368, 4-371, 4-374, 4-376–4-395, 4-397, 4-401, 4-405, 4-408, 4-412–4-416, 4-418–4-420, 4-422, 4-423, 4-425, 4-426, 4-428, 4-433, 4-437, 4-439, 4-446, 5-3, 5-35, 5-68, 5-105, 5-139, 5-172, 5-238, 5-372, 5-379, 5-384, 5-385, 5-388, 5-396–5-401, 5-403–5-405, 5-419–5-425, 5-428, 5-432, 5-445–5-450, 5-454, 5-457, 5-458, 5-471–5-476, 5-480, 5-483, 5-484, 5-497–5-503, 5-506, 5-511, 5-512, 5-526–5-530, 5-534, 5-537, 5-550–5-557, 5-560, 5-568–5-573, 5-577, 5-581, 5-594–5-600, 5-603, 5-611–5-616, 5-620, 5-621, 5-624, 5-625, 5-639–5-643, 5-647, 5-648, 5-651, 5-652, 5-666–5-674, 5-681, 5-691, 5-719–5-726, 5-730, 5-731, 5-734, 5-735, 5-748–5-757, 5-761, 5-764, 5-765, 5-778–5-782, 5-784–5-787, 5-791, 5-796, 5-809–5-818, 5-822, 5-827, 5-828, 5-832, 5-835, 5-838, 5-841–5-850, 5-854, 5-858–5-860, 5-863, 5-866, 5-869, 5-872–5-883, 5-887, 5-888, 5-892, 5-895, 5-898, 5-901–5-909, 5-913, 5-918, 5-930–5-940, 5-942, 5-943, 5-956–5-964, 5-967, 5-970, 5-972, 5-984–5-993, 5-996, 5-1000, 5-1002, 5-1015–5-1024, 5-1027, 5-1031, 5-1033, 5-1046–5-1055, 5-1061, 5-1063, 5-1076–5-1078, 5-1081–5-1161, 5-1163, 5-1165–5-1168, 5-1197, 5-1205, 5-1226, 5-1228, 5-1236, 5-1258, 5-1263, 5-1266, 6-87, 6-126, 7-4, 7-6, 7-12, 7-14, 7-15, 7-21, 7-22, 7-26, 7-31, 7-33, 7-46, 7-48, 7-49, 7-60–7-63, 7-65, 8-12, 8-28
 - interim storage, 1-36, 2-5, 2-12, 2-28, 2-31, 2-32, 2-37, 2-44, 3-115, 7-36, *see also* waste management
 - interim safe storage (ISS), 2-127, 6-37
 - interim storage facility, 2-44
 - in-trench grouting, 3-113, *see also* grout, secondary waste, cast stone
 - iodine-129, 2-204, 2-212, 2-213, 2-217–2-222, 2-224, 2-225, 2-230, 2-231, 2-237, 2-248, 2-249, 2-251, 2-252, 2-255–2-267, 2-270–2-279, 2-281, 2-288, 2-294, 2-296–2-298, 3-43, 3-47, 3-53, 5-4, 5-6, 5-7, 5-11, 5-16, 5-35, 5-36, 5-39, 5-42, 5-49, 5-66, 5-69, 5-71, 5-73, 5-76, 5-83, 5-102, 5-105, 5-106, 5-109, 5-112, 5-118, 5-138, 5-140, 5-142, 5-143, 5-145, 5-153, 5-170, 5-173, 5-176–5-179, 5-181, 5-186, 5-189, 5-194, 5-236, 5-237, 5-239, 5-240, 5-243, 5-245, 5-246, 5-248, 5-263, 5-299, 5-301, 5-304, 5-310, 5-316, 5-317, 5-329, 5-402, 5-406, 5-410, 5-421, 5-422, 5-428, 5-432, 5-446, 5-447, 5-454, 5-458, 5-472, 5-473, 5-480, 5-484, 5-498, 5-500, 5-502–5-505, 5-508, 5-512, 5-526–5-528, 5-530–5-534, 5-537, 5-551–5-553, 5-555, 5-557, 5-560, 5-568–5-570, 5-574, 5-577, 5-581, 5-595, 5-596, 5-600, 5-603, 5-611–5-613, 5-617, 5-621, 5-624, 5-625, 5-638–5-640, 5-644, 5-648, 5-651, 5-652, 5-667, 5-670, 5-672, 5-675, 5-677, 5-679, 5-684, 5-685, 5-720–5-729, 5-731, 5-735, 5-750, 5-751, 5-753, 5-754, 5-756–5-761, 5-765, 5-780–5-782, 5-785, 5-788, 5-792, 5-796, 5-810–5-815, 5-817–5-823, 5-825, 5-828, 5-832, 5-835, 5-842–5-847, 5-849–5-855, 5-859, 5-863, 5-866, 5-873–5-878, 5-880, 5-881, 5-883, 5-884, 5-887, 5-892, 5-895, 5-901–5-904, 5-906, 5-909, 5-913, 5-918, 5-931–5-939, 5-943, 5-957–5-965, 5-967, 5-972, 5-986–5-994, 5-996, 5-1002, 5-1017, 5-1019–5-1027, 5-1033, 5-1048–5-1050, 5-1052, 5-1055, 5-1058, 5-1063, 5-1077, 5-1079, 5-1081, 5-1085, 5-1088, 5-1091, 5-1094, 5-1097, 5-1100, 5-1103, 5-1106, 5-1111, 5-1116, 5-1120, 5-1124, 5-1128, 5-1132, 5-1136, 5-1140, 5-1144, 5-1148, 5-1155, 5-1169, 5-1170, 5-1173, 5-1179, 5-1197, 5-1198, 5-1200, 5-1205, 5-1226–5-1229, 5-1231, 5-1236, 5-1258, 5-1260, 5-1263, 5-1266, 6-28, 6-42, 6-43, 6-44, 6-46, 6-51, 6-77, 6-78, 6-81, 6-87, 6-115–6-117, 6-121, 6-126, 6-154, 6-156, 6-158, 6-160, 6-162, 7-5, 7-15, 7-16, 7-31, 7-65
 - ionizing radiation, *see* radiation
- ## L
- labor resource, 7-41, 7-53
 - land disposal restriction, 4-216, 4-221, 4-225, 4-228, 4-231, 4-234, 4-237, 4-240, 4-343, 4-420, 4-446, 8-11, 8-18
 - land resource, 2-292, 3-1, 3-121, 4-1, 6-3, 6-5, 7-7, 7-23
 - land use, 1-8, 1-37, 2-142, 2-145, 2-151, 2-170, 2-177, 2-179, 2-186, 2-194, 2-195, 3-2, 3-5–3-7, 3-9, 3-10, 3-19, 3-58, 3-121, 3-123, 3-127, 4-6–4-14, 4-16, 4-257, 4-259, 4-260, 4-262, 4-298, 4-301, 4-352–4-355, 4-427, 4-429, 6-2, 6-3–6-8, 6-19, 6-24, 6-164, 7-2, 7-3, 7-7, 7-8, 7-18, 7-23, 7-34, 7-42, 7-46, 7-47, 7-51, 7-55, 7-57–7-59, 7-62, 7-63
 - industrial land use, 3-6
 - Industrial-Exclusive land use, 2-143, 2-229, 2-285, 4-7, 4-11, 4-14, 4-15, 5-371
 - land use designation, 1-38, 3-6, 3-7, 3-9, 4-6, 4-259, 4-353, 6-6, 6-8
 - large-diameter container (LDC), 4-403, 4-404, 4-406, 4-407
 - Laser Interferometer Gravitational-Wave Observatory (LIGO), 1-22, 2-149, 2-191, 3-4, 3-5, 3-19, 3-89, 3-183, 3-184, 4-28, 4-129, 4-134, 4-135, 4-137, 4-138, 4-141, 4-142, 4-144, 4-146, 4-147, 4-150, 4-151, 4-154, 4-268, 4-308, 4-362, 4-396, 4-398, 6-13
 - latent cancer fatality (LCF), 2-148, 2-149, 2-164, 2-165, 2-169, 2-175, 2-183–2-185, 2-191–2-193, 2-200–2-202, 3-88, 4-130–4-159, 4-161–4-183, 4-185, 4-189–4-192, 4-309–4-317, 4-319–4-323, 4-325, 4-330, 4-336–4-341, 4-396–4-401, 4-403–4-409, 4-412, 4-413, 4-440, 4-441, 4-443, 6-26, 6-27, 6-29, 6-32, *see also* cancer
 - leak detection, 1-24–1-27, 1-29, 2-10, 2-18, 2-68, 2-69, 2-71, 2-75, 2-79, 2-83, 2-87, 2-91, 2-95, 2-99, 2-103, 2-190, 4-382, 8-14
 - leak detection and monitoring, 2-18

- leak detection technologies, 2-18
- level of service (LOS), 2-175, 4-110, 4-112, 4-114, 4-119, 4-121, 4-123, 4-126, 4-128, 4-304, 4-305, 4-307, 4-394, 4-395, 4-439, 6-25, 6-38, 6-178
- liner disassembly station, 2-45
- Liquid Effluent Retention Facility (LERF), 2-30, 3-42, 3-51, 3-68, 3-111, 3-115, 3-116, 4-65, 4-67, 4-68, 4-77, 4-82, 4-84-4-89, 4-91, 4-93, 4-94, 4-444, 7-13, 7-26, 8-10, 8-29
- liquid waste, 1-27, 1-29, 1-34, 1-39, 1-42, 2-5, 2-9, 2-18, 2-35, 2-38, 2-43, 2-89, 2-97, 2-101, 2-124, 2-140, 2-153, 3-46, 3-47, 3-51, 3-52, 3-109, 3-111, 3-115, 3-116, 3-149, 4-67, 4-69-4-73, 4-75, 4-76, 4-78, 4-79, 4-187, 4-216, 4-235, 4-288, 6-31, 6-37
- low-activity waste (LAW), 1-4-1-6, 1-18-1-20, 1-24-1-29, 1-34, 1-36, 2-4, 2-12, 2-22, 2-23, 2-25-2-27, 2-29, 2-31, 2-54, 2-59, 2-60, 2-63, 2-65, 2-66, 2-69, 2-72, 2-73, 2-76, 2-77, 2-79, 2-80, 2-81, 2-83-2-85, 2-88, 2-89, 2-92, 2-93, 2-96, 2-98, 2-99, 2-101, 2-103, 2-124, 2-125, 2-129, 2-130, 2-131, 2-140, 2-141, 2-150, 2-152, 2-168, 2-169, 2-255-2-259, 2-261, 2-263, 2-270, 2-271, 2-273, 2-274, 2-276, 2-277, 2-286, 2-302, 3-4, 3-24, 3-25, 3-111, 4-2, 4-3, 4-7, 4-14, 4-56, 4-63, 4-158, 4-159, 4-161, 4-162, 4-164-4-167, 4-169, 4-170, 4-172-4-175, 4-177, 4-179-4-182, 4-185, 4-212-4-216, 4-219-4-222, 4-224, 4-225, 4-227-4-230, 4-232, 4-233, 4-235, 4-236, 4-238, 4-239, 4-243, 4-245-4-251, 4-406, 4-407, 4-445, 5-35, 5-397-5-401, 5-1085, 5-1088, 5-1091, 5-1094, 5-1124, 5-1128, 6-35, 7-14, 7-29, 7-33
- immobilized low-activity waste (ILAW), 1-6, 1-12, 1-19, 1-23-1-29, 1-37, 2-23, 2-25, 2-28, 2-29, 2-31, 2-35, 2-59, 2-60, 2-63-2-65, 2-66, 2-69, 2-72, 2-73, 2-76, 2-77, 2-79, 2-81, 2-83, 2-85, 2-88, 2-89, 2-92, 2-93, 2-96-2-101, 2-103, 2-104, 2-129-2-133, 2-140, 2-141, 2-167, 2-169, 2-192, 2-249, 2-255-2-259, 2-261, 2-263, 2-270, 2-271, 2-273, 2-274, 2-276, 2-277, 2-286-2-289, 2-300, 2-303, 4-2, 4-3, 4-27, 4-63, 4-65, 4-79, 4-93, 4-94, 4-127, 4-129, 4-185, 4-212-4-214, 4-220-4-222, 4-224-4-227, 4-229, 4-230, 4-232, 4-233, 4-235, 4-236, 4-238, 4-239, 4-243, 4-246, 4-247, 4-250, 4-405-4-407, 4-428, 4-437, 4-445, 5-35, 5-397-5-401, 5-420, 5-421, 5-446, 5-447, 5-472, 5-473, 5-498-5-500, 5-502, 5-526, 5-527, 5-551, 5-569, 5-595, 5-596, 5-612, 5-719, 5-720, 5-750, 5-751, 5-780-5-782, 5-811, 5-843, 5-874, 5-902, 5-933, 5-1082, 5-1094, 5-1097, 5-1103, 5-1116, 5-1132, 5-1136, 5-1197, 6-35, 6-78, 6-116, 7-5, 7-6, 7-14-7-16, 7-22, 7-25, 7-29, 7-36, 7-57, 8-14, 8-18
- low-level radioactive waste (LLW), 1-1-1-3, 1-10, 1-11, 1-13, 1-17, 1-32-1-37, 1-39, 1-40, 2-31, 2-32, 2-49, 2-54-2-56, 2-58, 2-62, 2-114, 2-115, 2-117, 2-120, 2-122, 2-123, 2-126, 2-136-2-138, 2-140, 2-141, 2-151, 2-153, 2-154, 2-168, 2-169, 2-177, 2-185, 2-192-2-194, 2-202, 2-252, 2-292, 2-295, 2-296, 2-300, 2-305-2-308, 3-4, 3-46, 3-90, 3-109-3-115, 3-117-3-119, 3-169-3-173, 4-164-4-167, 4-169, 4-170, 4-172-4-175, 4-212, 4-214, 4-216-4-220, 4-222-4-225, 4-227, 4-228, 4-230, 4-231, 4-233, 4-234, 4-236, 4-237, 4-239, 4-240, 4-242-244, 4-246-4-248, 4-250, 4-251, 4-343-4-346, 4-351, 4-352, 4-409, 4-419, 4-420, 4-422, 4-423, 4-444-4-447, 5-396-5-402, 5-420, 5-719, 5-1082, 5-1085, 5-1088, 5-1091, 5-1094, 5-1097, 5-1100, 5-1103, 5-1106, 5-1111, 5-1116, 5-1120, 5-1124, 5-1128, 5-1132, 5-1136, 5-1140, 5-1144, 5-1148, 5-1155, 5-1260, 6-14, 6-31, 6-33-36, 6-38-6-40, 7-6, 7-8, 7-14, 7-28, 7-29, 7-32, 7-46, 7-57, 7-60, 7-62, 8-6, 8-17, 8-18, *see also* high-level radioactive waste, low-activity waste, mixed low-level radioactive waste

M

- major radionuclides, 3-53, 6-155
- Manhattan Project, 3-1, 3-76-3-78, 4-95, 4-98-4-104, 4-437, 4-451, 8-21
- Materials and Fuels Complex (MFC), 1-9, 1-21, 1-22, 1-31, 1-34, 1-38, 2-44, 2-46, 2-48, 2-58, 2-61, 2-62, 2-108, 2-110, 2-113, 2-136, 2-170, 2-172-2-174, 2-179, 2-181, 2-182, 2-185, 3-119, 3-121-3-132, 3-137, 3-138, 3-140, 3-142, 3-143, 3-146, 3-147, 3-149-3-153, 3-155, 3-156, 3-161-3-168, 3-170, 3-171, 4-256, 4-259-4-261, 4-266, 4-267, 4-282, 4-284, 4-288, 4-289, 4-292, 4-294, 4-298-4-300, 4-312, 4-313, 4-320-4-323, 4-338, 4-341, 4-344, 4-347, 4-351, 4-435, 5-372, 8-25
- maximally exposed individual (MEI), 2-148, 2-149, 2-175, 2-191, 3-87-3-89, 3-158, 4-129-4-147, 4-149-4-151, 4-153, 4-154, 4-156, 4-159, 4-162, 4-163, 4-168, 4-171, 4-176, 4-178, 4-182-4-185, 4-197-4-202, 4-204-4-206, 4-208-4-211, 4-308-4-311, 4-313-4-315, 4-317, 4-320-4-323, 4-325, 4-335-4-338, 4-340-4-342, 4-395, 4-397, 4-402, 4-403, 4-405-4-408, 4-417, 4-418, 4-439, 4-440, 4-443, 6-26-6-28, 6-30, 6-31, 7-20, 7-27
- offsite MEI, 2-175, 2-191, 4-129, 4-157, 4-159, 4-161-4-165, 4-167, 4-168, 4-171, 4-173, 4-175, 4-176, 4-178, 4-180, 4-181, 4-196, 4-198-4-202, 4-204-4-207, 4-209-4-211, 4-316, 4-319-4-322, 4-336-4-339, 4-341, 4-396, 4-416-4-418, 4-443, 6-27
- maximum contaminant level (MCL), 2-212, 3-43, 3-53, 3-141, 3-144, 3-146, 5-15, 5-101, 5-237, 5-300, 6-42, 6-77, 6-116, 8-10
- melt-drain-evaporate (MEDE), 2-45
- melter, 1-12, 1-28, 2-23, 2-29, 2-32, 2-35, 2-45, 2-46, 2-92, 2-96, 2-125, 2-126, 2-150, 2-153, 4-50, 4-56, 4-213, 4-215, 4-216, 7-22
- high-level radioactive waste melter (HLW melter), 1-24-1-26, 1-28, 1-29, 2-30, 2-59, 2-69, 2-72, 2-76, 2-79, 2-83, 2-88, 2-92, 2-96, 2-99, 2-103, 2-126, 2-130, 2-150, 2-152, 2-167, 3-25, 4-3, 4-62, 4-158, 4-159, 4-161, 4-162, 4-164-4-167, 4-169, 4-170, 4-172-4-175, 4-177, 4-179-4-183, 4-213, 4-215, 4-220-4-222, 4-224, 4-225, 4-227-4-230, 4-232, 4-233, 4-235, 4-236, 4-238, 4-239, 4-241-4-243, 4-246-4-248, 4-250, 4-251, 4-445, 6-35, 7-9, 7-22, 7-24, 7-57
- induction melter, 2-45
- meteorology, 3-19, 4-311
- microbiotic crust, 3-61, 4-81, 4-384, 4-385, 7-26, *see also* cryptogamic crust
- Migratory Bird Treaty Act, 8-3, 8-19, 8-30
- miscellaneous underground storage tank (MUST), 1-23, 2-5, 4-67, 5-140, 7-13

- Mission Acceleration Initiative (MAI), 1-32, 2-63, 2-105, 2-114, 2-128, 2-134, 2-136
- Mitigation Action Plan (MAP), 7-67
- mixed waste, 1-3, 1-4, 1-35, 1-45, 2-1, 2-31, 2-49, 3-9, 3-47, 3-94, 3-110, 3-111, 3-113, 3-114, 3-116, 3-129, 3-130, 3-170–3-172, 3-176, 4-221, 4-405, 6-36, 6-38, 6-166, 6-175, 8-11, 8-15, 8-16, 8-18, 8-28
- mixed low-level radioactive waste (MLLW), 1-1–1-3, 1-10, 1-11, 1-13, 1-17, 1-27, 1-31–1-33, 1-36, 1-37, 1-39, 1-40, 2-31, 2-32, 2-49, 2-54–2-56, 2-58, 2-62, 2-89, 2-93, 2-114, 2-115, 2-117, 2-120, 2-122, 2-123, 2-126, 2-136–2-138, 2-151–2-154, 2-168, 2-169, 2-177, 2-185, 2-192–2-194, 2-202, 2-292, 2-295, 2-296, 2-300, 2-305, 2-306, 2-308, 3-109–3-118, 3-169–3-173, 4-56, 4-60, 4-62, 4-164–4-167, 4-169, 4-170, 4-172–4-175, 4-212, 4-214–4-218, 4-220–4-225, 4-227, 4-228, 4-230, 4-231, 4-233, 4-234, 4-236, 4-237, 4-239, 4-240, 4-242–4-244, 4-246–4-248, 4-250, 4-251, 4-343, 4-351, 4-352, 4-409, 4-419, 4-420, 4-422, 4-423, 4-444–4-447, 5-396–5-402, 5-420, 5-719, 6-15, 6-31, 6-35, 6-36, 6-40, 7-14, 7-28, 7-29, 7-46, 7-57, 7-60, 7-62, 8-6, 8-16, 8-18, *see also* low-level radioactive waste
- mixed transuranic waste (mixed TRU waste), 1-25–1-28, 2-22, 2-27, 2-28, 2-31, 2-32, 2-55, 2-56, 2-63, 2-66, 2-70, 2-73, 2-75, 2-77, 2-80, 2-81, 2-84, 2-85, 2-89, 2-90, 2-93, 2-98, 2-102, 2-131, 2-151, 2-152, 2-288, 2-300, 3-109–3-111, 3-169, 3-171, 4-2, 4-58–4-60, 4-200, 4-202–4-205, 4-212, 4-214–4-217, 4-219, 4-223, 4-225, 4-226, 4-228, 4-229, 4-231, 4-232, 4-234, 4-235, 4-237, 4-238, 4-240, 4-244, 4-248, 4-249, 4-251, 4-444–4-447, 7-37, 7-57, 8-18, 8-25, *see also* transuranic waste
- mixed TRU waste, *see* mixed transuranic waste
- mobile retrieval system, 2-15, 2-16, 4-30
- Modified Mercalli Intensity (MMI), 3-35, 3-136, 4-55, 4-279, 4-283, 4-374
- modified sluicing, 2-15, 2-17, 2-18, 2-21, 2-68, 2-71, 2-75, 2-79, 2-83, 2-1, 2-103, 2-140, 4-68
- N**
- National Ambient Air Quality Standards (NAAQS), 2-145, 2-171, 2-188, 3-21, 3-22, 3-128, 3-129, 3-189, 4-33, 4-271, 4-276, 4-364, 8-7, 8-8
- National Emission Standards for Hazardous Air Pollutants (NESHAPs), 2-148, 2-312, 3-187, 4-452, 6-27, 6-180, 8-2, 8-7–8-9, 8-29
- National Environmental Policy Act (NEPA), 1-1, 1-4–1-7, 1-9–1-16, 1-18, 1-19, 1-21–1-23, 1-30, 1-31, 1-33, 1-35, 1-37, 1-39–1-43, 1-48–1-50, 2-5, 2-25, 2-27, 2-32, 2-42, 2-59, 2-61, 2-95, 2-105, 2-124, 2-127, 2-233, 2-299, 2-310, 3-1, 3-18, 3-119, 3-174, 3-179, 3-182, 4-222, 4-224, 4-227, 4-230, 4-233, 4-236, 4-239, 4-242, 4-243, 4-246, 4-247, 4-250, 4-256, 5-371, 5-386, 6-1–6-5, 6-13, 6-39, 6-175, 6-176, 6-178, 6-180, 7-1, 7-54, 7-67, 8-1, 8-5, 8-6, 8-14, 8-27, 8-30, 8-33
- National Historic Preservation Act, 3-74, 3-75, 3-79, 3-189, 8-3, 8-21, 8-30
- National Pollutant Discharge Elimination System (NPDES), 2-173, 2-189, 3-42, 3-91, 3-141, 3-179, 3-182, 3-188, 4-66, 4-286–4-288, 4-380, 4-381, 8-2, 8-9, 8-29, 8-30
- National Priorities List (NPL), 6-36, 6-37, 8-26
- National Register, *see* National Register of Historic Places
- National Register of Historic Places, 2-147, 2-169, 3-74, 6-23, 8-21
- neptunium, 3-92, 5-4, 6-156, 6-158, 6-160, 6-162
- neutralization, 2-53, 3-112
- Nevada Test Site (NTS), 1-37, 1-49, 2-44, 2-61, 2-107, 2-110, 2-112, 2-114, 2-136, 2-312, 3-118, 3-169, 3-171, 3-173, 3-188, 4-256, 4-260, 4-261, 4-292, 4-294, 4-298, 4-326, 4-327, 4-329, 4-339, 4-347
- Nez Perce Tribe, *see* American Indian
- NI PEIS, 1-9, 1-38
- nitrate, 2-3, 2-26, 2-28, 2-125, 2-204, 2-218–2-220, 2-229, 2-230, 2-236, 2-237, 2-251, 2-255–2-257, 2-259–2-264, 2-266, 2-270–2-273, 2-275–2-279, 2-281, 2-283, 2-284, 3-47, 3-48, 3-53, 3-57, 5-4, 5-6, 5-7, 5-11, 5-16, 5-35, 5-36, 5-39, 5-42, 5-49, 5-69, 5-70, 5-71, 5-73, 5-76, 5-83, 5-102, 5-105, 5-106, 5-109, 5-112, 5-118, 5-140, 5-142, 5-143, 5-145, 5-153, 5-173, 5-174, 5-176–5-179, 5-181, 5-186, 5-189, 5-194, 5-237, 5-239, 5-240, 5-243, 5-245, 5-246, 5-248, 5-263, 5-301, 5-310, 5-316, 5-317, 5-329, 5-371, 5-402, 5-406, 5-410, 5-421, 5-422, 5-428, 5-432, 5-446, 5-447, 5-454, 5-458, 5-472, 5-473, 5-480, 5-484, 5-498, 5-500, 5-502–5-505, 5-510, 5-512, 5-526–5-528, 5-530–5-534, 5-537, 5-551–5-553, 5-555, 5-557, 5-560, 5-568–5-570, 5-574, 5-577, 5-581, 5-595, 5-596, 5-600, 5-603, 5-604, 5-611–5-613, 5-617, 5-621, 5-624, 5-625, 5-639, 5-640, 5-644, 5-648, 5-651, 5-652, 5-666, 5-667, 5-670, 5-672, 5-675, 5-677, 5-679, 5-688, 5-689, 5-691, 5-718, 5-720–5-729, 5-731, 5-735, 5-750, 5-751, 5-753, 5-754, 5-756–5-761, 5-765, 5-780–5-782, 5-785, 5-788, 5-792, 5-796, 5-810–5-815, 5-817–5-822, 5-825, 5-828, 5-835, 5-838, 5-842–5-847, 5-849–5-856, 5-859, 5-866, 5-869, 5-873–5-878, 5-880, 5-881, 5-883, 5-885, 5-887, 5-895, 5-898, 5-901–5-904, 5-906, 5-909, 5-913, 5-919, 5-932–5-939, 5-943, 5-957–5-965, 5-967, 5-972, 5-986–5-994, 5-996, 5-1002, 5-1017–5-1027, 5-1033, 5-1048–5-1050, 5-1052, 5-1055, 5-1058, 5-1063, 5-1077, 5-1079, 5-1081, 5-1085, 5-1088, 5-1091, 5-1094, 5-1097, 5-1100, 5-1103, 5-1106, 5-1111, 5-1116, 5-1120, 5-1124, 5-1128, 5-1132, 5-1136, 5-1140, 5-1144, 5-1148, 5-1155, 5-1169, 5-1170, 5-1173, 5-1179, 5-1197, 5-1198, 5-1200, 5-1206, 5-1226–5-1229, 5-1231, 5-1237, 5-1258, 5-1260, 5-1263, 5-1266, 5-1272, 6-42–6-44, 6-46, 6-51, 6-77, 6-78, 6-81, 6-88, 6-115–6-117, 6-121, 6-127, 6-154, 6-156, 6-158, 6-160, 6-162, 6-167, 7-5, 7-15, 7-31, 7-37, 7-39
- nitrogen, 2-41, 2-46, 2-145, 2-158, 2-171, 2-180, 2-188, 2-196, 2-229, 3-22, –3-26, 3-61, 3-94, 3-128–3-131, 3-191, 4-33, 4-34, 4-38, 4-40–4-49, 4-271, 4-272, 4-274, 4-276, 4-277, 4-364, 4-365, 4-367, 4-368, 4-370, 4-371, 4-432, 5-394, 6-13–6-16, 6-167, 7-37, 7-39, 7-43, 7-44, 7-48, 7-49, 7-52, 8-7
- nitrogen oxides, 3-26, 3-94, 6-13–6-16, 6-167
- No Action Alternative, 1-12, 1-15, 1-18, 1-19, 1-21, 1-23, 1-30, 1-40, 1-41, 2-1, 2-11, 2-15, 2-30, 2-38, 2-43, 2-55–2-57, 2-59, 2-61, 2-63–2-65, 2-105–2-107,
-

- 2-115, 2-116, 2-127, 2-128, 2-131, 2-142–2-144, 2-146, 2-147, 2-150, 2-155, 2-170–2-172, 2-174–2-176, 2-178, 2-186, 2-187, 2-190, 2-191, 2-194, 2-202, 2-225, 2-229, 2-235, 2-283, 2-300, 2-304, 4-6, 4-19, 4-80, 4-95, 4-107, 4-257, 4-259, 4-279, 4-285, 4-291, 4-296, 4-297, 4-309, 4-325, 4-336, 4-352, 4-374, 4-384, 4-388, 4-391, 4-392, 4-396, 4-402, 4-416, 4-426, 4-429, 4-439, 4-445, 4-446, 5-390, 5-391, 5-1162, 5-1168, 5-1259, 7-1, 7-13, 7-18, 7-22–7-25, 7-27, 7-28, 7-34, 7-36, 7-41, 7-45, 7-46, 7-50, 7-54–7-56, 7-58–7-61, 8-13
- noise, 2-144, 2-158, 2-171, 2-180, 2-187, 2-196, 3-1, 3-2, 3-18, 3-19, 3-94, 3-127, 3-160, 3-179, 3-187, 3-190, 4-28–4-32, 4-81, 4-268–4-270, 4-361–4-363, 4-426, 4-451, 4-453, 5-9, 5-40, 5-74, 5-110, 5-145, 5-182, 5-247, 5-428, 5-454, 5-480, 5-506, 5-534, 5-556, 5-577, 5-600, 5-620, 5-647, 5-681, 5-730, 5-761, 5-791, 5-822, 5-854, 5-882, 5-912, 5-939, 5-967, 5-996, 5-1027, 5-1058, 5-1171, 5-1199, 5-1229, 6-3, 6-5, 6-12, 6-13, 6-44, 6-79, 6-118, 7-1, 7-3, 7-9, 7-17, 7-24, 7-28–7-30, 8-2, 8-7, 8-9, 8-27
- nonattainment area, 3-21, 4-34, 4-272, 4-365
- non-CERCLA waste, 2-56, 2-255–2-258, 2-260–2-264, 2-266, 2-270, 2-272, 2-273, 2-275, 2-276, 2-278, 2-279, 2-281, 4-352, 4-422, 4-444–4-446, 5-396, 5-420, 5-719, *see also* CERCLA waste
- nondestructive assay (NDA), 2-53, 2-54, 3-112
- nondestructive examination (NDE), 2-11, 2-53, 2-54, 3-112
- nonhazardous waste, 2-151, 2-177, 3-109, 3-110, 3-169, 3-171, 4-216, 4-220–4-224, 4-226, 4-227, 4-229–4-231, 4-233, 4-234, 4-236, 4-237, 4-239, 4-240, 4-242, 4-243, 4-245–4-247, 4-249, 4-250, 4-252, 4-343–4-346, 4-444, 4-445, 4-447
- nonradioactive constituent, 3-109
- nonradiological release, *see also* release, radiological release
- Notice of Intent (NOI), 1-6, 1-14, 1-15, 1-17, 1-20, 1-30, 1-50, 2-313, 6-180, 6-181
- Nuclear Regulatory Commission, *see* U.S. Nuclear Regulatory Commission
- ## O
- Oak Ridge National Laboratory (ORNL), 4-451, 6-180
- Oak Ridge Reservation (ORR), 1-37, 3-118, 3-172
- Occupational Safety and Health Administration (OSHA), 3-91, 3-159, 4-155, 8-23
- Office of River Protection (ORP), 1-1, 1-4, 1-11, 1-31, 1-39, 1-45–1-48, 2-309, 2-310, 2-311, 3-111, 3-174–3-177, 3-180, 3-182, 3-186, 4-252, 4-449, 4-450, 8-5, 8-32, 8-33
- options considered but not evaluated, 2-124
- outfall, 3-42, 8-9, 8-29
- ozone depletion, 6-171
- ## P
- package
disposal package, 6-38
- paleontological resource, *see also* cultural resources, cultural and paleontological resources
- particulate matter (PM), 2-144, 2-169, 2-171, 2-185, 2-188, 2-202, 2-294, 3-21–3-23, 3-25, 3-26, 3-128–3-130, 3-182, 4-32–4-34, 4-38, 4-40–4-49, 4-270–4-272, 4-274, 4-276, 4-277, 4-363–4-365, 4-367, 4-368, 4-370, 4-371, 4-432, 6-13, 6-14, 7-4, 7-10, 7-25, 7-28, 7-29, 7-55, 7-58, 7-61, 7-63, 8-7
- PM_{2.5}, 2-144, 2-169, 2-171, 2-185, 2-187, 2-202, 3-22, 3-23, 3-26, 3-129, 3-130, 4-32–4-34, 4-270–4-272, 4-276, 4-363, 4-364, 4-367, 4-368, 4-370
- PM₁₀, 2-144, 2-145, 2-158, 2-169, 2-171, 2-180, 2-185, 2-187, 2-188, 2-196, 2-202, 3-22, 3-23, 3-25, 3-26, 3-128, 3-129, 4-32–4-34, 4-38–4-50, 4-271, 4-272, 4-274, 4-276–4-278, 4-363, 4-364, 4-367–4-373, 4-432, 6-13–6-16
- Pasco Basin, 3-10, 3-28–3-33, 3-52, 3-176
- past-practice unit, 1-14
- performance assessment, 5-303, 5-384, 5-1078, 7-14, 7-25, 7-57, 7-60, 7-63
- permit, 1-6, 1-11, 1-17, 2-5, 2-29, 2-53, 2-73, 2-145, 2-171, 2-188, 2-203, 2-229, 2-237, 3-24–3-26, 3-42, 3-46, 3-91, 3-113, 3-130, 3-140, 3-141, 3-159, 4-12, 4-14, 4-66, 4-261, 4-262, 4-286–4-288, 6-2, 6-8, 6-19, 6-36, 8-7–8-10, 8-12–8-15, 8-18–8-20, 8-27–8-30
- physiography, 3-27
- place of residence, 3-89
- plants, 1-2, 1-4, 2-3, 2-12, 2-33, 2-145, 2-147, 2-172, 2-174, 2-188, 2-190, 2-225, 3-5, 3-6, 3-13, 3-34, 3-58, 3-61, 3-63, 3-67–3-69, 3-72–3-74, 3-116, 3-117, 3-121, 3-125, 3-147, 3-150, 4-17, 4-51, 4-82, 4-84–4-88, 4-90, 4-91, 4-93, 4-94, 4-355, 5-365–5-371, 5-391, 5-395, 5-1163, 5-1165, 5-1167, 5-1269, 5-1272, 6-4, 6-22, 6-31, 6-38, 6-167, 6-170, 6-173, 7-26, 7-36, 7-40, *see also* animals, terrestrial resource
- plasma mass separator, 2-125
- plutonium, 1-2, 1-3, 1-9, 1-22, 1-38, 2-3, 2-9, 2-48, 3-2, 3-4, 3-24, 3-26, 3-42, 3-47, 3-52, 3-53, 3-77, 3-93, 3-110, 3-119, 3-152, 3-161, 4-130, 5-4, 6-28, 6-37, 6-156, 6-158, 6-160, 6-162, 6-168, 6-169
- plutonium-238, 1-38
- plutonium-239, 3-24, 3-26, 3-42, 4-130, 5-4, 6-168, 6-169
- plutonium-uranium extraction (PUREX), 1-38, 2-48, 3-24, 3-27, 3-57, 3-78, 3-184, 6-4, 6-17, 6-29, 6-51, 6-86, 6-87, 6-125, 6-126
- Plutonium-Uranium Extraction Plant (PUREX Plant), 3-27, 3-57, 6-17, 6-29, 6-51, 6-86, 6-87, 6-125, 6-126
- pollutant, 2-144, 2-145, 2-171, 2-172, 2-187, 2-188, 3-23, 3-117, 3-130, 4-32, 4-34, 4-38–4-49, 4-270, 4-272, 4-274, 4-275, 4-277–4-279, 4-363, 4-365, 4-431, 6-2, 6-13, 6-15, 6-16, 6-31, 7-10, 8-8, *see also* air pollutant, air quality, criteria pollutant, emission, National Ambient Air Quality Standards, National Emission Standards for Hazardous Air Pollutants
- toxic pollutant, 2-145, 2-172, 2-188, 3-23, 3-26, 3-27, 4-35, 4-38–4-49, 4-272, 4-274, 4-275, 4-277, 4-279, 4-365, 4-367, 4-370, 4-371, 7-25, 8-9
- pollution prevention, 3-117, 3-141, 3-172, 4-66, 4-286, 4-287, 4-289, 4-380, 4-381, 7-3, 7-4, 7-13, 7-22, 8-26
- polychlorinated biphenyl (PCB), 1-37, 2-43, 3-114, 3-171, 5-4, 8-16
- population, 2-147–2-149, 2-163–2-166, 2-169, 2-174, 2-175, 2-183–2-185, 2-191, 2-192, 2-200–2-202, 2-215, 2-217–2-222, 2-224, 2-233, 2-234, 2-237,

2-251, 2-255–2-257, 2-259–2-264, 2-266, 2-270–2-272, 2-274–2-279, 2-281, 2-292, 2-311, 3-6, 3-62, 3-81–3-83, 3-87–3-89, 3-91, 3-95–3-98, 3-101, 3-104, 3-105, 3-107, 3-147, 3-149, 3-150, 3-153, 3-154, 3-157–3-163, 3-166, 3-181, 3-182, 3-187, 4-106, 4-107, 4-109, 4-111, 4-114, 4-118, 4-120, 4-123, 4-126, 4-128–4-186, 4-188–4-212, 4-308–4-317, 4-319–4-323, 4-325, 4-327, 4-329–4-333, 4-335–4-342, 4-393, 4-395–4-414, 4-416–4-418, 4-439–4-443, 5-303, 5-304, 5-316, 5-317, 5-323, 5-329, 5-330, 5-342, 5-343, 5-349, 5-356, 5-362, 5-371, 5-385, 5-386, 5-388, 5-395, 5-1078, 5-1079, 5-1081, 5-1085, 5-1088, 5-1091, 5-1094, 5-1097, 5-1100, 5-1103, 5-1106, 5-1111, 5-1116, 5-1120, 5-1124, 5-1128, 5-1132, 5-1136, 5-1140, 5-1144, 5-1148, 5-1155, 5-1168, 5-1259, 5-1260, 5-1263, 5-1266, 5-1272, 6-8, 6-19, 6-26–6-34, 6-155, 6-156, 6-158, 6-160, 6-162, 6-171, 7-20, 7-21, 7-27, 8-7

low-income population, 2-151, 2-166, 2-177, 2-185, 2-193, 2-202, 3-95, 3-96, 3-104, 3-105, 3-166, 3-167, 4-196–4-212, 4-334–4-342, 4-415–4-419, 4-443, 5-370, 5-395, 5-1167, 5-1272, 8-27

minority population, 2-151, 2-166, 2-177, 2-185, 2-193, 2-202, 2-312, 3-82, 3-95–3-105, 3-107, 3-154, 3-161–3-166, 3-188, 4-196–4-212, 4-334–4-342, 4-415–4-419, 4-443, 4-452, 8-5, 8-27

non-low-income population, 3-104, 3-105, 3-107, 3-166, 3-167

nonminority population, 3-99–3-101, 3-103, 3-163, 3-165

populations within 80 kilometers (50 miles) of the 200 Areas, 3-98

total population, 3-82, 3-96–3-98, 3-101, 3-104, 3-105, 3-107, 3-161–3-163, 3-166, 4-196–4-199, 4-201–4-204, 4-206–4-209, 4-211, 4-311, 4-333, 4-335–4-340, 4-416, 4-417

pore water, 5-29, 5-49, 5-61, 5-83, 5-96, 5-118, 5-130, 5-153, 5-165, 5-194, 5-222, 5-263, 5-287, 5-410, 5-432, 5-445, 5-458, 5-484, 5-512, 5-538, 5-560, 5-581, 5-603, 5-692, 5-735, 5-748, 5-765, 5-778, 5-796, 5-809, 5-919, 5-930, 5-943, 5-956, 5-972, 5-984, 5-1002, 5-1015, 5-1033, 5-1046, 5-1063, 5-1076, 5-1191, 5-1221, 5-1253

postclosure care, 1-11, 1-21, 1-25–1-30, 1-33, 2-32–2-34, 2-43, 2-56, 2-57, 2-60, 2-62, 2-70, 2-73, 2-74, 2-77, 2-78, 2-81, 2-82, 2-85, 2-86, 2-89, 2-91, 2-93, 2-95, 2-97, 2-98, 2-101, 2-102, 2-104, 2-105, 2-107, 2-112, 2-115, 2-117, 2-120, 2-123, 2-124, 2-135, 2-137, 2-138, 2-142, 2-153, 2-154, 2-190, 2-194, 2-203, 2-300, 4-8–4-12, 4-16, 4-54, 4-65, 4-69–4-73, 4-75, 4-76, 4-78, 4-79, 4-106, 4-110, 4-113, 4-117, 4-119, 4-124, 4-130, 4-216, 4-217, 4-282, 4-350, 4-357, 4-374, 4-377–4-380, 4-382, 4-420, 5-69, 5-551, 6-41, 7-14, 7-15, 7-23, 7-54, 7-55, 7-57–7-61, 7-63, 8-12, 8-13

potentially affected counties, 3-95, 3-161

Preferred Alternative, 1-4, 1-38, 1-40, 1-42, 2-11, 2-307, 2-308, 4-427, 5-1168, 6-2, 6-3

prehistoric resource, 2-147, 2-162, 2-174, 2-182, 2-190, 2-199, 3-74, 3-75, 4-95–4-104, 4-296, 4-298, 4-301, 4-389, 4-390, 4-437, 6-23, 7-18, 7-26

preprocessing, 2-34, 2-35

Preprocessing Facility (PPF), 1-27, 1-29, 2-35, 2-89, 2-97, 2-98, 2-100, 2-101, 2-129, 2-132, 2-144, 2-147, 2-152, 2-153, 2-167–2-169, 2-264, 2-266, 2-278, 2-281, 4-2, 4-23–4-26, 4-30–4-32, 4-59–4-64, 4-73, 4-76, 4-78, 4-91, 4-117, 4-124, 4-146, 4-148, 4-149, 4-151–4-153, 4-185, 4-212, 4-215, 4-216, 4-235, 4-241–4-244, 4-246–4-250, 5-398, 5-401, 5-640, 5-666, 5-670, 5-672, 5-958, 5-987, 5-1018, 5-1049, 5-1050, 5-1227, 7-28, 7-29, 7-31, 7-33, 7-36, 7-39, 7-40

pretreatment, 1-28, 1-29, 2-5, 2-12, 2-22, 2-23, 2-25, 2-28, 2-29, 2-31, 2-59, 2-65, 2-66, 2-69, 2-73, 2-77, 2-85, 2-89, 2-101, 2-125, 2-131, 2-132, 2-150, 2-289, 3-42, 4-144, 4-213, 4-214, 7-5, 7-14, 7-16, 8-15

Pretreatment Facility, 1-6, 2-23, 2-25–2-27, 2-29, 2-150, 3-24, 4-158, 4-159, 4-161, 4-162, 4-164–4-167, 4-169, 4-170, 4-172–4-175, 4-179–4-182, 4-212–4-215, 4-241, 4-245, 4-249

Class I Area, 3-25, 3-26

Class II Area, 3-25, 3-26, 3-131

PSD increment consumption, 3-24, 3-130

PSD permit, 3-24, 3-25, 3-130

PSD regulation, 3-24, 3-131

Prevention of Significant Deterioration (PSD), 3-24, 3-25, 3-130, 3-131, 3-179, 3-180, 3-184, 3-187, 3-189, 8-8

prime farmland, 3-37, 3-138

process flow, 2-54

processing facility, 2-46, 2-53, 2-56, 4-397–4-401, 6-30, 7-43

projected waste generation, 4-444

Property Protected Area (PPA), 1-30, 1-32, 2-40, 2-43, 2-58, 2-105, 2-106, 2-113, 2-134, 2-135, 3-10, 3-79, 3-116, 4-256, 4-257, 4-259–4-262, 4-265, 4-279, 4-281, 4-284, 4-287, 4-291, 4-294, 4-296–4-298, 4-301, 4-344, 5-371, 5-384, 7-15, 7-23, 7-42, 7-59, 7-64, 8-21

proposed actions, 1-1, 1-5, 1-11, 1-13, 1-14, 1-16, 1-17, 1-20, 1-22, 1-34–1-38, 1-41, 1-42, 2-1, 2-5, 2-12, 2-30, 2-32, 2-37, 2-40, 2-43, 2-55, 2-59, 2-60, 2-62, 2-124, 2-194, 2-227, 2-299, 2-300, 2-308, 3-1, 3-74, 3-87, 4-1, 4-196, 4-426, 5-1, 5-3, 5-35, 5-69, 5-105, 5-140, 5-173, 5-238, 5-372, 5-380, 5-384, 5-401, 5-420, 5-811, 5-1168, 6-2, 6-3, 6-29, 7-25, 7-34, 8-21

proposed schedule, 2-64, 2-66, 2-70, 2-74, 2-78, 2-82, 2-86, 2-91, 2-95, 2-98, 2-102, 2-106, 2-108, 2-112, 2-115, 2-117, 2-120, 8-15

public and occupational health and safety, 2-148–2-150, 2-164–2-166, 2-169, 2-175, 2-176, 2-183–2-185, 2-191–2-193, 2-200–2-202, 4-129, 4-156, 4-183, 4-196, 4-308, 4-315, 4-325, 4-335, 4-336, 4-341, 4-395, 4-402, 4-408, 4-416, 4-418, 4-426, 4-439, 4-442, 4-443, 6-3, 6-5, 6-13, 6-26, 6-31, 7-1, 7-4, 7-5, 7-6, 7-20, 7-27, 7-32

occupational health, 6-3, 6-5, 7-27

public health, 1-1, 3-91, 3-159, 3-173, 3-179, 4-131, 4-133, 4-135, 4-137, 4-139, 4-140, 4-142, 4-144, 4-146, 4-147, 4-150, 4-151, 4-154, 4-286, 4-440, 6-3, 6-42, 7-1, 8-1, 8-6, 8-7, 8-15

purpose and need, 1-1, 1-11, 1-42, 2-59, 2-124

background radiation, 3-87–3-89, 3-157–3-160, 6-28

historical exposure, 6-28

ionizing radiation, 3-87, 3-91–3-93, 3-160, 8-23

- radiation exposure, 3-90, 3-92, 3-93, 3-158, 3-160, 4-129, 4-130, 4-308, 4-395, 4-396, 4-399, 4-400, 6-26, 6-28–6-31, 7-21, 7-27, 7-32, 7-57, 7-59, 7-61, 8-23, 8-24
- radiation protection, 7-20, 8-18, 8-23, 8-24
- terrestrial radiation, 3-88, 6-171
- ## R
- radiation, 2-9, 2-43, 2-61, 2-125, 2-148, 2-149, 2-151, 2-164, 2-169, 2-175, 2-177, 2-183, 2-191, 2-193, 2-200, 2-215, 2-292, 2-311–2-313, 3-27, 3-87–3-90, 3-92–3-94, 3-110, 3-157–3-160, 3-174, 3-178, 3-182, 3-184, 3-187, 3-190, 3-191, 4-129–4-132, 4-134–4-139, 4-141, 4-143–4-145, 4-147–4-149, 4-151–4-155, 4-158, 4-161, 4-164, 4-166, 4-169, 4-172, 4-174, 4-177, 4-179, 4-181, 4-183, 4-184, 4-188–4-192, 4-308, 4-309, 4-325–4-327, 4-395–4-401, 4-408, 4-409, 4-412, 4-441, 4-443, 4-450, 4-452, 5-304, 5-385, 5-1079, 5-1260, 5-1272, 5-1273, 6-26, 6-28–6-31, 6-156, 6-171, 6-176–6-178, 6-181, 7-14, 7-20, 7-21, 7-27, 7-32, 7-57, 7-59, 7-61, 7-67, 8-2–8-4, 8-8, 8-17, 8-18, 8-23, 8-24, 8-28
- radioactive decay, 2-140, 2-204, 2-230, 2-237, 3-52, 3-146, 4-132, 5-4, 5-7, 5-8, 5-11, 5-15, 5-34, 5-36, 5-38, 5-39, 5-42, 5-46, 5-68, 5-70, 5-73, 5-74, 5-102, 5-106, 5-109, 5-110, 5-116, 5-139, 5-141, 5-143, 5-145, 5-151, 5-172, 5-174, 5-178, 5-179, 5-181, 5-182, 5-194, 5-237, 5-239, 5-243, 5-244, 5-246–5-248, 5-258, 5-301, 5-373, 5-377, 5-379, 5-380, 5-384, 5-402, 5-421, 5-446, 5-473, 5-498, 5-527, 5-551, 5-569, 5-596, 5-612, 5-639, 5-667, 5-720, 5-750, 5-781, 5-812, 5-843, 5-875, 5-903, 5-933, 5-958, 5-986, 5-1018, 5-1049, 5-1169–5-1171, 5-1177, 5-1196–5-1198, 5-1200, 5-1204, 5-1227–5-1230, 5-1235, 5-1259, 6-42–6-44, 6-46, 6-51, 6-77, 6-78, 6-81, 6-86, 6-116, 6-117, 6-119, 6-125, 6-155
- Radioactive Liquid Waste Treatment Facility (RLWTF), 4-288
- Radioactive Scrap and Waste Facility (RSWF), 3-170, 3-171
- radioactive sodium, 1-21, 2-46, 2-48, 8-15
- radioactive waste, 1-2, 1-36, 1-37, 2-1, 2-9, 2-26, 2-27, 2-43, 2-49, 2-63, 2-115, 2-127, 2-129, 2-137, 2-150, 2-151, 2-169, 2-176, 2-177, 2-185, 2-193, 2-202, 2-305, 2-306, 3-2, 3-4, 3-9, 3-27, 3-110, 3-118, 3-125, 3-144, 3-156, 3-158, 3-169, 3-170, 3-173, 4-3, 4-158, 4-159, 4-161, 4-162, 4-164–4-167, 4-169, 4-170, 4-172–4-175, 4-177, 4-179–4-184, 4-187–4-195, 4-198–4-200, 4-202–4-205, 4-207–4-210, 4-212, 4-220, 4-222, 4-224, 4-227, 4-230, 4-233, 4-236, 4-239, 4-242, 4-243, 4-246, 4-247, 4-250, 4-343, 4-345, 4-346, 4-409, 4-419, 4-421, 4-445, 5-401, 6-4, 6-14, 6-31, 6-32, 6-33, 6-35, 7-6, 7-20, 7-33, 8-16, 8-17, 8-18, *see also* waste management
- Radioactive Waste Management Complex (RWMC), 3-132, 3-143, 3-153, 3-169–3-171
- radioactive waste and materials management, 8-3, 8-16, 8-17
- radioactive waste management (RWM), 8-18
- radioactivity, 1-21, 2-127, 2-191, 3-89, 3-90, 3-131, 3-158, 3-160, 4-159, 4-162, 4-163, 4-167, 4-168, 4-171, 4-175, 4-176, 4-178, 4-181, 4-182, 4-184, 4-218, 4-313, 4-316, 4-319–4-322, 4-342, 4-344, 4-403, 4-405, 6-31, 8-10, 8-24, *see also* decay heat
- radiological impact, 2-148, 2-150, 2-175, 2-176, 2-193, 2-202, 2-215, 2-233, 2-251, 4-129, 4-156, 4-176, 4-179, 4-183, 4-196–4-212, 4-308, 4-315, 4-318, 4-325, 4-326, 4-335–4-342, 4-396, 4-399–4-402, 4-408, 4-416–4-418, 4-443, 5-303, 5-385, 5-1078, 5-1259, 6-155, 6-171, 7-20, 7-27
- radiological release, 2-148, 2-175, 2-191, 3-88, 3-90, 3-131, 3-132, 3-158, 4-130, 5-403–5-405, 5-422–5-427, 5-448–5-453, 5-474–5-479, 5-499, 5-501–5-505, 5-527, 5-529–5-533, 5-552, 5-554, 5-555, 5-571–5-576, 5-597–5-599, 5-614–5-619, 5-641–5-646, 5-668–5-671, 5-673–5-680, 5-721–5-729, 5-751–5-753, 5-755–5-760, 5-781, 5-783–5-790, 5-812–5-814, 5-816–5-821, 5-844–5-846, 5-848–5-853, 5-875–5-877, 5-879–5-881, 5-903–5-911, 5-933–5-938, 5-958–5-966, 5-987–5-995, 5-1018–5-1026, 5-1049–5-1057, 5-1272, 6-30, *see also* nonradiological release, release
- radiological safety, 8-24
- radionuclide, 2-29, 2-40, 2-234, 2-288, 3-43, 3-87, 3-90, 3-112, 3-113, 4-130, 5-4, 5-9, 5-15, 5-40, 5-46, 5-74, 5-80, 5-110, 5-116, 5-145, 5-151, 5-182, 5-194, 5-247, 5-258, 5-303, 5-375, 5-377, 5-384, 5-405, 5-409, 5-428, 5-432, 5-454, 5-458, 5-479, 5-484, 5-506, 5-512, 5-528, 5-530, 5-532–5-534, 5-537, 5-551, 5-556, 5-560, 5-570, 5-574, 5-577, 5-581, 5-596, 5-600, 5-603, 5-617, 5-620, 5-624, 5-644, 5-647, 5-651, 5-681, 5-691, 5-722, 5-723, 5-725, 5-726, 5-728–5-730, 5-735, 5-751, 5-753, 5-756, 5-757, 5-759–5-761, 5-765, 5-791, 5-796, 5-822, 5-828, 5-854, 5-859, 5-882, 5-887, 5-912, 5-918, 5-934, 5-935, 5-937, 5-938, 5-939, 5-943, 5-967, 5-972, 5-996, 5-1002, 5-1027, 5-1033, 5-1058, 5-1063, 5-1078, 5-1171, 5-1177, 5-1199, 5-1204, 5-1229, 5-1235, 6-44, 6-51, 6-79, 6-86, 6-118, 6-125, 7-15, 8-7, 8-29
- radon, 6-31, 8-10
- RADTRAN 5, 4-184, 4-451
- reactivity, 3-114, 8-11
- reactor compartment (RC), 1-34, 1-39, 2-49, 3-36, 3-113, 6-4, 6-29, 6-35, 6-36, 6-38, 6-39, 8-11
- Reactor Containment Building (RCB), 1-30–1-32, 2-40, 2-41, 2-43, 2-44, 2-61, 2-105, 2-106, 2-109, 2-110–2-113, 2-127, 2-134, 2-135, 2-172, 2-173, 2-182, 2-185, 2-232, 2-234, 2-294, 3-78, 4-257, 4-259–4-262, 4-265, 4-267, 4-279, 4-281, 4-284, 4-287, 4-290–4-297, 4-299, 4-301, 4-344, 4-347, 4-439, 5-380, 5-388, 7-42, 7-54, 7-58, 7-59, 7-60
- reactor coolant system, 2-46
- reactor core, 6-29, 7-60
- reactor support and auxiliary buildings, 2-41
- Reactor Technology Complex (RTC), 3-131, 3-132, 3-136, 3-137, 3-140, 3-141, 3-144, 3-146, 3-153
- reactor vessel (RV), 1-8, 1-30, 1-32, 2-40, 2-42, 2-61, 2-105, 2-106, 2-109, 2-111, 2-113, 2-134, 2-135, 2-172, 2-173, 2-181, 2-232, 2-234, 2-294, 2-308, 3-41, 3-118, 4-261, 4-284, 4-286, 4-290, 4-329, 4-332, 4-344, 4-347, 5-371, 5-380, 5-388, 6-38

- Record of Decision (ROD), 1-3-1-10, 1-13, 1-14, 1-18, 1-21, 1-23, 1-24, 1-30, 1-33, 1-34, 1-36-1-41, 1-49, 1-50, 2-1, 2-4, 2-12, 2-56, 2-57, 2-65, 2-106, 2-115, 2-142, 2-312, 2-313, 3-5, 3-7, 3-112-3-114, 3-117-3-119, 3-146, 3-172, 3-179, 3-188, 3-189, 4-219, 4-446, 4-452, 6-7, 6-25, 6-38, 6-180, 6-181, 7-2, 7-6, 7-7, 7-67, 8-6, 8-34
- region of influence (ROI), 2-147, 2-163, 2-169, 2-174, 2-183, 2-185, 2-191, 2-199, 2-202, 3-1, 3-81-3-83, 3-153-3-155, 4-107-4-114, 4-117-4-121, 4-123, 4-126-4-128, 4-303-4-306, 4-392-4-395, 4-438, 6-1-6-9, 6-11, 6-16, 6-17, 6-19-6-25, 6-164, 6-166, 7-19, 7-27, 7-32, 7-33
- regional economic area, 3-81
- release, *see* nonradiological release, radiological release
- remote treatment process
- Remote Treatment Project (RTP), 1-21, 1-31, 2-44, 2-45, 2-61, 2-108, 2-110, 2-113, 2-135, 2-136, 2-171-2-173, 2-181, 2-185, 4-256, 4-259, 4-261, 4-266, 4-272, 4-274-4-278, 4-282, 4-283, 4-287-4-289, 4-292, 4-294, 4-298, 4-299, 4-305, 4-307, 4-310-4-312, 4-343, 4-347, 4-448, 5-372, 7-7, 7-41-7-46, 7-58, 7-59
- remote-handled waste, *see* remote-handled low-level radioactive waste, remote-handled mixed low-level radioactive waste, remote-handled mixed transuranic waste, remote-handled transuranic waste
- remote-handled special component (RH-SC), 1-1, 1-14, 1-21, 1-22, 1-30-1-32, 1-41, 2-1, 2-42-2-45, 2-58, 2-61, 2-105, 2-107, 2-109, 2-110, 2-112, 2-113, 2-134-2-136, 2-142, 2-170, 2-172-2-185, 2-235, 2-294, 2-295, 2-304, 2-305, 2-308, 4-256, 4-257, 4-259-4-264, 4-266, 4-269, 4-271, 4-273-4-275, 4-277, 4-278, 4-280-4-282, 4-286, 4-287, 4-291-4-299, 4-301-4-304, 4-306, 4-308, 4-310-4-316, 4-319-4-321, 4-323, 4-325-4-329, 4-331, 4-332, 4-337-4-339, 4-343-4-350, 4-426, 4-439, 4-442, 5-371, 5-372, 5-390, 5-393, 5-394, 5-1168, 7-25, 7-41, 7-58-7-60, 8-15, 8-25, *see also* remote-handled low-level radioactive waste, remote-handled mixed low-level radioactive waste, remote-handled mixed transuranic waste, remote-handled transuranic waste
- Hanford Option, 1-21, 1-31, 2-44, 2-110, 2-113, 2-135, 2-172, 2-175, 2-176, 2-179-2-185, 2-304, 2-305, 4-256, 4-259, 4-260, 4-262-4-264, 4-266, 4-267, 4-269, 4-270, 4-275, 4-278, 4-280, 4-282-4-285, 4-287, 4-288, 4-290-4-296, 4-298-4-307, 4-310, 4-312-4-315, 4-319, 4-320, 4-323-4-325, 4-329, 4-331-4-334, 4-337, 4-342, 4-345, 4-347-4-351, 5-372, 5-390, 5-393, 7-7
- Idaho Option, 1-31, 2-44, 2-110, 2-113, 2-136, 2-170, 2-172-2-177, 2-179-2-185, 2-304, 2-305, 4-256, 4-259-4-264, 4-266, 4-267, 4-269, 4-270, 4-275, 4-278, 4-280, 4-282, 4-285, 4-288, 4-290, 4-292-4-296, 4-298-4-307, 4-310-4-315, 4-320, 4-321, 4-323-4-326, 4-329, 4-331-4-334, 4-338, 4-342, 4-345, 4-347-4-351, 4-426, 4-428, 4-430, 4-432, 4-433, 4-435, 4-438, 4-440-4-442, 4-445, 4-448, 5-372, 5-390, 5-393, 5-1168, 7-7, 7-58
- remote-handled waste (RH waste), 1-41, 3-109, 3-112, 3-113, 3-171, 4-409
- remote-handled low-level radioactive waste (RH-LLW), 3-113, 3-169, 4-412
- remote-handled transuranic waste (RH-TRU waste), 2-117, 2-122, 2-136, 2-153, 3-109, 3-111, 3-112, 4-189-4-192, 4-212, 4-215, 4-217, 4-218, 4-220, 4-227, 4-230, 4-233, 4-236, 4-239
- research and development (R&D), 1-9, 1-33, 1-38, 2-288, 3-4, 3-6, 3-77, 3-152, 6-36, 7-5
- resident farmer, 2-214, 5-303, 5-310, 5-316, 5-370, 5-385, 5-395, 5-1078, 5-1088, 5-1091, 5-1094, 5-1097, 5-1106, 5-1111, 5-1116, 5-1120, 5-1124, 5-1128, 5-1132, 5-1136, 5-1140, 5-1144, 5-1148, 5-1155, 5-1167, 5-1259, 5-1260, 5-1263, 5-1266, 5-1272, 6-155, 6-156, 6-158, 6-160, 6-162, 6-170, 6-171, 7-6, 7-21, *see also* American Indian resident farmer
- Resource Conservation and Recovery Act, 1-2, 1-3, 1-5, 1-8, 1-13, 1-24, 1-26-1-28, 1-30, 1-34, 1-35, 1-37, 1-50, 2-31, 2-33, 2-34, 2-37, 2-49, 2-53, 2-54, 2-73, 2-77, 2-80, 2-84, 2-89, 2-93, 2-104, 2-105, 2-129, 2-135, 2-152, 2-153, 2-178, 2-189, 2-194, 2-232, 2-234, 2-251, 2-309, 2-313, 3-51, 3-110, 3-111, 3-113-3-116, 3-171, 3-172, 3-181, 3-190, 4-2, 4-3, 4-7, 4-8, 4-10, 4-12-4-14, 4-16, 4-40-4-43, 4-49, 4-53, 4-54, 4-69, 4-70, 4-72-4-74, 4-80, 4-91, 4-92, 4-112, 4-129, 4-214-4-216, 4-238, 4-280, 4-287, 4-343, 4-375, 4-381, 4-382, 4-420, 4-433, 4-446, 5-69, 5-380, 5-388, 5-1079, 6-2, 6-29, 6-36-6-39, 6-181, 7-14, 7-21, 8-1, 8-2, 8-11-8-16, 8-18, 8-25, 8-27, 8-28, 8-30
- Revised Code of Washington (RCW), 1-2, 1-3, 1-4, 1-51, 3-9, 3-190, 6-8, 6-181, 8-1-8-3, 8-5, 8-7, 8-9, 8-10, 8-12-8-14
- Richland Operations Office (RL), 1-39, 1-44-1-48, 2-308-2-311, 3-79, 3-95, 3-117, 3-174-3-180, 3-182, 3-185, 3-186, 4-449-4-451, 5-1272, 6-175-6-177, 7-66, 8-3, 8-21, 8-33
- risers, 2-9, 2-10, 2-33
- risk assessment, 7-29
- River Protection Project (RPP), 1-4, 1-7, 1-12, 2-5, 2-11, 2-33, 2-56, 2-57, 2-60, 2-115, 2-128, 2-136, 2-137, 2-139-2-141, 2-202, 2-204, 2-240, 2-243, 2-254, 2-269, 2-299, 2-300, 2-308, 2-311, 3-180, 4-1, 4-56, 4-222, 4-224, 4-227, 4-230, 4-233, 4-236, 4-239, 4-242, 4-243, 4-246, 4-247, 4-250, 4-433, 5-2, 5-3, 5-401, 5-409, 5-425-5-428, 5-432, 5-451-5-453, 5-457, 5-477-5-479, 5-483, 5-503-5-506, 5-511, 5-531-5-533, 5-537, 5-557, 5-574-5-577, 5-581, 5-603, 5-617-5-621, 5-644-5-648, 5-675-5-681, 5-727-5-730, 5-758-5-761, 5-788-5-791, 5-819-5-822, 5-851-5-854, 5-882, 5-909-5-913, 5-940, 5-964-5-967, 5-970, 5-993-5-996, 5-1000, 5-1024-5-1027, 5-1031, 5-1055-5-1058, 5-1061, 5-1080, 5-1083, 5-1086, 5-1089, 5-1092, 5-1095, 5-1098, 5-1101, 5-1104, 5-1107, 5-1108, 5-1112, 5-1113, 5-1117, 5-1118, 5-1121, 5-1122, 5-1125, 5-1126, 5-1129, 5-1130, 5-1133, 5-1134, 5-1137, 5-1138, 5-1141, 5-1142, 5-1145, 5-1146, 5-1149-5-1152, 5-1156-5-1159, 7-6, 7-12, 7-62, 8-29, 8-32
- River Protection Project Disposal Facility (RPPDF), 1-12, 1-25-1-27, 1-29, 1-30, 1-33, 2-33, 2-35, 2-56, 2-57, 2-62, 2-73, 2-77, 2-81, 2-85, 2-89, 2-97, 2-101, 2-104, 2-115, 2-117, 2-120, 2-123, 2-124, 2-132, 2-137-2-139, 2-153, 2-154, 2-186, 2-187, 2-189-

- 2-191, 2-199, 2-202–2-204, 2-237, 2-238, 2-240, 2-243, 2-248, 2-251, 2-253–2-258, 2-260–2-273, 2-275–2-279, 2-281, 2-295, 2-298, 2-299, 2-308, 4-56, 4-60, 4-62, 4-216, 4-217, 4-222–4-237, 4-239–4-251, 4-352–4-357, 4-360–4-363, 4-368, 4-371, 4-374, 4-376–4-379, 4-381–4-391, 4-393–4-395, 4-400, 4-413, 4-415, 4-419, 4-422, 4-423, 4-425, 4-428, 4-433, 4-437, 4-446, 5-3, 5-35, 5-68, 5-105, 5-139, 5-172, 5-238, 5-396–5-401, 5-405, 5-409, 5-419–5-422, 5-425–5-428, 5-432, 5-445–5-447, 5-451–5-454, 5-457, 5-458, 5-471–5-474, 5-477–5-480, 5-483, 5-484, 5-497–5-499, 5-503–5-506, 5-511, 5-512, 5-526, 5-527, 5-531–5-534, 5-537, 5-538, 5-550, 5-551, 5-556, 5-557, 5-569, 5-570, 5-574–5-577, 5-581, 5-594, 5-595, 5-600, 5-603, 5-612, 5-613, 5-617–5-621, 5-624, 5-625, 5-639, 5-644–5-648, 5-651, 5-652, 5-666, 5-667, 5-675–5-681, 5-691, 5-692, 5-719, 5-720, 5-727–5-731, 5-734, 5-735, 5-748–5-750, 5-758–5-761, 5-764, 5-765, 5-778–5-781, 5-788–5-791, 5-796, 5-809–5-812, 5-819–5-822, 5-827, 5-828, 5-832, 5-835, 5-838, 5-841–5-844, 5-851–5-854, 5-858–5-860, 5-863, 5-866, 5-869, 5-872, 5-873, 5-882, 5-901, 5-902, 5-909–5-913, 5-918, 5-931, 5-932, 5-940, 5-957, 5-964–5-967, 5-970, 5-972, 5-984, 5-986, 5-993–5-996, 5-1000, 5-1002, 5-1015–5-1018, 5-1024–5-1027, 5-1031, 5-1033, 5-1046–5-1049, 5-1055–5-1058, 5-1061, 5-1063, 5-1076–5-1078, 5-1080–5-1083, 5-1085, 5-1086, 5-1088, 5-1089, 5-1091, 5-1092, 5-1094, 5-1095, 5-1097, 5-1098, 5-1100, 5-1101, 5-1103, 5-1104, 5-1106–5-1108, 5-1111–5-1113, 5-1116–5-1118, 5-1120–5-1122, 5-1124–5-1126, 5-1128–5-1130, 5-1132–5-1134, 5-1136–5-1138, 5-1140–5-1142, 5-1144–5-1146, 5-1148–5-1152, 5-1155–5-1159, 5-1163, 5-1166, 5-1167, 5-1236, 5-1266, 7-4, 7-6, 7-12, 7-14, 7-15, 7-17, 7-21, 7-26, 7-46–7-48, 7-60–7-63, 7-65, 8-29
- rocks, 3-28, 3-31, 3-133, 3-136, 3-143
 rock and mineral resources, 3-27, 4-58–4-62, 4-64
- runoff, 2-146, 2-160, 2-173, 2-181, 2-189, 2-197, 3-39, 3-67, 3-140, 4-66, 4-286–4-290, 4-380, 4-381, 4-434, 6-19, 7-15, 8-9
- S**
- Safe Drinking Water Act, 3-88, 3-157, 8-2, 8-10, 8-27
- safeguards, 4-182
- safety analysis report (SAR), 3-181
- sagebrush habitat, 2-146, 2-161, 2-174, 2-182, 2-190, 2-198, 3-63, 3-73, 4-81–4-94, 4-384–4-387, 4-435, 4-436, 7-4, 7-17, 7-28, 7-31
- sanitary waste, 2-160, 3-42, 3-44, 3-46, 3-116, 3-117, 3-140, 4-67, 4-68, 4-74, 4-77, 4-286–4-289, 4-380
- Savannah River Site (SRS), 1-37, 1-38, 3-118, 3-172
- scoping, 1-1, 1-9, 1-14–1-18, 1-20, 1-23, 1-31, 1-42, 1-50, 2-127, 7-30
 scoping process, 1-1, 1-15, 1-20, 1-23
- screening, 2-37, 3-131, 3-141, 3-160, 5-303, 5-385, 5-1078
- secondary waste, 2-25, 2-32, 2-140, 2-152, 2-248, 2-255–2-264, 2-266, 2-270–2-279, 2-281, 2-287–2-290, 2-305, 4-212, 4-216, 5-397–5-401, 5-421, 5-447, 5-473, 5-499, 5-500, 5-502, 5-527, 5-552, 5-570, 5-596, 5-613, 5-640, 5-667, 5-670, 5-672, 5-720, 5-721, 5-724, 5-751, 5-754, 5-781, 5-782, 5-811, 5-812, 5-815, 5-844, 5-875, 5-878, 5-903, 5-904, 5-933, 5-936, 5-958, 5-961, 5-987, 5-990, 5-1018, 5-1021, 5-1049, 5-1050, 5-1082, 5-1085, 5-1088, 5-1091, 5-1094, 5-1097, 5-1100, 5-1103, 5-1106, 5-1111, 5-1116, 5-1120, 5-1124, 5-1128, 5-1132, 5-1136, 5-1140, 5-1144, 5-1148, 5-1155, 5-1263, 5-1266, 6-36, 7-5, 7-15, 7-16, 7-22, 7-25, 7-28, 7-29, 7-33, 7-57, 7-60, 8-12, *see also* cast stone, grout, in-trench grouting
- secondary low-level radioactive waste, 2-155, 4-216, 4-218, 4-344, 4-419
- secondary mixed low-level radioactive waste, 2-153, 2-178, 4-216, 4-343
- security, 1-23, 1-30, 2-59, 2-64, 2-69, 2-106, 3-123, 3-125, 4-182, 5-2
- sensitive species, 3-61, 3-62, 3-121, 4-82, 4-293, 4-295, 8-30
- separations, 2-3, 2-28, 2-140, 2-294, 2-300, 4-21
 separations activities, 2-28
- sewage, 3-42, 3-44, 3-57, 3-116, 3-142, 4-67, 4-286–4-289, 4-380, 6-37, 8-10
- shielding, 1-3, 1-32, 2-9, 2-38, 2-44, 2-111, 2-113, 2-125, 2-141, 3-109, 3-111, 3-114, 4-184, 6-38, 7-4, 7-20, 7-27
- shrub-steppe habitat, 1-4, 3-6, 3-58, 3-62, 3-63, 3-73, 4-91, 4-92, 4-387, 6-6, 6-19–6-22
- shutdown, 1-36, 2-38, 3-5, 3-17
- single-shell tank (SST), 1-1, 1-2, 1-6, 1-7, 1-11, 1-12, 1-18, 1-20, 1-23, 1-24, 1-26–1-30, 1-39, 1-42, 1-43, 2-1, 2-4, 2-5, 2-9, 2-11, 2-12, 2-15, 2-17, 2-18, 2-20, 2-21, 2-32–2-34, 2-36, 2-37, 2-56, 2-58–2-60, 2-65, 2-70, 2-73, 2-74, 2-77, 2-78, 2-80, 2-82, 2-84, 2-86, 2-89, 2-91, 2-93, 2-94, 2-97, 2-98, 2-101, 2-102, 2-104, 2-124, 2-125, 2-128, 2-129, 2-132–2-134, 2-143, 2-144, 2-160, 2-169, 2-285, 2-286, 2-290–2-295, 2-298, 2-303, 3-47, 3-48, 3-109, 3-110, 4-1, 4-7, 4-24, 4-56–4-59, 4-61–4-66, 4-69–4-73, 4-76–4-79, 4-119, 4-124, 4-127, 4-238, 4-241, 4-245, 4-426, 5-1, 5-2, 5-3, 5-35, 5-69, 5-105, 5-140, 5-173, 5-238, 5-1168, 7-1, 7-11, 7-13, 7-15, 7-25, 7-34–7-36, 7-54–7-57, 7-63–7-65, 8-12–8-14, 8-18, 8-28, 8-29, *see also* tank system
- Snake River, 3-68, 3-70, 3-86, 3-125, 3-126, 3-132, 3-133, 3-136, 3-137, 3-140, 3-141, 3-143–3-146, 3-155, 3-175, 3-181, 3-183, 4-283
- Snake River Plain, 3-126, 3-132, 3-133, 3-136, 3-137, 3-140, 3-141, 3-143–3-146, 3-181, 3-183, 4-283
- Snake River Plain Aquifer, 3-126, 3-143, 3-144, 3-146
- SNF PEIS, 1-34
- socioeconomics, 2-147, 2-163, 2-174, 2-183, 2-191, 2-199, 3-1, 3-2, 3-81, 3-153, 4-105, 4-302, 4-391, 4-437, 6-3, 6-5, 6-24, 7-1, 7-4, 7-18, 7-19, 7-27
 socioeconomic impact, 2-147, 2-174, 2-191, 4-106, 4-115, 4-116, 4-123, 4-125, 4-126, 4-219, 4-302, 4-391, 4-392, 4-394, 4-437, 4-438, 6-25
- sodium, 1-2, 1-8, 1-9, 1-14, 1-21, 1-22, 1-30, 1-31, 1-34, 1-35, 1-36, 1-38, 1-40, 2-3, 2-4, 2-26, 2-27, 2-29, 2-38, 2-40, 2-43–2-48, 2-58, 2-61, 2-105, 2-107–2-114, 2-127, 2-132, 2-134–2-136, 2-170, 2-173–2-178, 2-295, 3-4, 3-16, 3-17, 3-92, 3-116, 3-119, 3-172, 4-51, 4-54, 4-256, 4-257, 4-259–4-261, 4-266, 4-267, 4-281, 4-284, 4-286, 4-291, 4-292,

- 4-294, 4-296, 4-297–4-299, 4-308, 4-310–4-313, 4-316–4-319, 4-322–4-330, 4-332, 4-333, 4-335, 4-336, 4-338–4-341, 4-343, 4-347, 4-351, 4-374, 4-377, 4-404, 4-439, 5-372, 5-391, 6-3, 7-22, 7-37, 7-41, 7-60, 8-28, 8-29, *see also* bulk sodium
- sodium cold trap, 2-43, 2-105, 2-110
- sodium processing, 4-266, 4-296, 4-308, 5-372, 7-41
- sodium reaction process, 2-46, 2-47
- sodium storage, 2-41, 2-42, 2-46, 2-47, 2-107, 2-176, 3-170, 3-171, 4-257, 4-291, 4-316–4-319, 4-335, 4-336, 8-28
- sodium vapor traps, 2-43, 2-44, 2-105, 2-110
- Sodium Processing Facility (SPF), 1-21, 1-31, 1-34, 1-36, 2-46–2-48, 2-62, 2-111, 2-112, 2-114, 2-136, 2-171, 2-173, 2-174, 3-171, 4-257, 4-260, 4-261, 4-267, 4-275, 4-279, 4-284, 4-289, 4-292, 4-294, 4-298, 4-299, 4-305, 4-307, 4-313, 4-322–4-324, 4-343, 4-347, 5-372, 6-3, 7-41–7-46, 7-58, 7-59, 8-28, 8-29
- Sodium Reaction Facility (SRF), 2-42, 2-46, 2-47, 2-62, 2-111, 2-112, 2-114, 2-136, 2-171, 2-173, 2-174, 4-256, 4-260, 4-261, 4-266, 4-274, 4-275, 4-277, 4-278, 4-283, 4-284, 4-288, 4-289, 4-292, 4-294, 4-298–4-300, 4-305, 4-307, 4-311, 4-313, 4-343, 4-347, 4-351, 7-41–7-46, 7-58, 7-59, 8-29
- Sodium Reactor Experiment (SRE), 1-31, 1-40, 2-46, 2-58, 2-107, 2-108, 2-110, 2-136, 4-281, 4-316–4-319, 4-322
- Sodium Storage Facility (SSF), 2-41, 2-42, 2-46, 2-47, 2-107, 2-110, 2-111, 2-113, 2-114, 2-136, 2-173, 3-171, 4-257, 4-259–4-261, 4-281, 4-283, 4-286, 4-288, 4-291, 4-292, 4-296, 4-297, 4-316–4-319, 4-344, 8-28
- soil, *see also* geology
 - deep soil removal, 2-34, 2-35, 2-134, 2-292, 4-62, 4-77, 4-143, 4-148, 4-149, 4-152, 4-153, 7-31, 7-36
 - in situ soil remediation, 2-126
 - soil profile, 3-33
 - soil removal, 1-13, 1-16, 2-33, 2-34, 2-36, 2-63, 2-86, 2-134, 2-141, 2-149, 2-292, 4-61, 4-63, 4-64, 4-75, 4-83, 4-224, 4-227, 4-230, 4-233, 4-236, 4-242, 4-243, 4-246, 4-247, 4-250, 7-15
- solid waste, 1-1, 1-10, 1-35, 1-39, 1-42, 1-45, 1-46, 1-50, 2-1, 2-4, 2-49, 2-53–2-55, 2-58, 2-127, 2-154, 2-178, 2-305, 2-311, 2-313, 3-46, 3-109, 3-110, 3-113–3-115, 3-117, 3-172, 3-173, 3-182, 3-183, 3-189, 4-218–4-224, 4-226, 4-227, 4-229–4-231, 4-233, 4-234, 4-236, 4-237, 4-239, 4-240, 4-242, 4-243, 4-245, 4-246, 4-247, 4-249, 4-250, 4-252, 4-344, 4-346, 4-351, 4-362, 4-398, 4-403, 4-404, 4-406–4-408, 4-444–4-446, 4-448, 4-452, 5-396, 6-5, 6-32, 6-35, 6-37, 6-39, 6-177, 6-181, 7-37, 8-6, 8-11, 8-12, 8-27, 8-33, 8-34
- solid waste management, 1-1, 1-10, 1-35, 2-1, 4-351, 4-398, 5-396
- Solid Waste Operations Complex (SWOC), 1-35, 2-1, 2-49, 2-54, 2-55, 2-192, 2-193, 2-311, 4-362, 4-363, 4-402–4-408
- source of radiation exposure, 3-88, 3-157
- source term, 2-150, 3-177, 5-1082
- special nuclear material, 8-17
- special status species, 2-147, 2-161, 2-174, 2-182, 2-190, 2-198, 3-58, 3-69, 3-72, 3-73, 3-149, 3-150, 4-82, 4-84–4-95, 4-293–4-295, 4-386, 4-387, 4-436, 6-19, 6-22, 7-17
- special waste, 8-12, *see also* dangerous waste, hazardous waste, waste management
- species of concern, 3-58, 3-69, 3-70, 3-71, 3-72, 3-150, 3-175, 3-186
- spent nuclear fuel (SNF), 1-2, 1-9, 1-14, 1-21, 1-22, 1-34, 1-36, 1-38, 1-39, 1-51, 2-3, 2-31, 2-106, 2-127, 2-140, 2-307, 3-1, 3-2, 3-4, 3-110, 3-111, 3-118, 3-119, 3-121, 3-125, 3-156, 3-182, 6-29, 6-31–6-33, 8-16, 8-17, 8-18
- stabilization, 1-3, 1-34, 2-11, 2-20, 2-33, 2-126, 2-214, 3-2, 3-112, 3-117, 4-6, 4-7, 4-80, 4-95, 4-218, 4-291, 4-344, 4-374, 4-377, 5-1078, 6-4, 7-12, 8-15
- State Environmental Policy Act (SEPA), 1-2, 1-4, 1-10, 1-11, 1-16, 1-40, 1-51, 3-174, 6-2, 6-175, 8-1, 8-5
- State-Approved Land Disposal Site (SALDS), 3-47, 3-51, 3-53, 3-115, 4-67, 4-68, 4-77, 4-444
- steam reforming, 1-19, 1-26, 1-39, 2-25, 2-26, 2-28, 2-31, 2-73, 2-81, 2-84, 2-124, 2-130–2-132, 2-140, 2-141, 2-144, 2-148, 2-249, 2-287, 2-288, 3-111, 3-172, 4-22, 4-59, 4-116, 4-212, 4-214, 4-232, 5-498–5-500, 5-502, 5-667, 5-811, 5-812, 5-1091, 5-1128, 7-16, 7-37, 7-40, *see also* supplemental treatment
- steam reforming waste, 2-26, 2-31, 2-84, 2-132, 2-141, 2-249, 2-287, 2-288, 4-214, 4-232, 5-498–5-500, 5-502, 5-667, 5-811, 5-812, 5-1128, 7-16
- storage, *see also* interim storage, waste management
- stratigraphy, 3-27, 3-38, 3-47, 3-133
- strontium-90 plume, 3-144, 3-145
- strontium-90, 2-28, 2-130, 3-24, 3-26, 3-42, 3-43, 3-48, 3-144, 3-146, 4-130, 5-4, 6-156, 6-158, 6-160, 6-162
- structural features, 3-30
- sulfate removal, 1-28, 2-28, 2-29, 2-31, 2-89, 2-92, 2-131, 2-132, 2-289, 4-144, 7-4, 7-22, 7-37, 7-39
- sulfur oxides, 6-13, 6-16, 6-167
 - sulfur dioxide, 2-145, 2-171, 2-188, 3-26, 3-130, 4-34, 4-38, 4-40–4-49, 4-272, 4-274, 4-277, 4-365, 4-367, 4-368, 4-370, 4-371, 8-7
- supplemental treatment, 1-6, 1-8, 1-12, 1-18, 1-19, 1-25–1-28, 2-5, 2-21, 2-22, 2-25, 2-27, 2-28, 2-31, 2-58, 2-73, 2-76, 2-77, 2-80, 2-81, 2-84, 2-85, 2-89, 2-90, 2-92–2-94, 2-97, 2-98, 2-101, 2-128, 2-130, 2-131, 2-133, 2-140, 2-141, 2-148, 2-152, 2-248, 2-285, 2-287, 2-288, 4-21–4-24, 4-57–4-61, 4-115, 4-116, 4-142, 4-214, 5-141, 7-5, 7-8, 7-11, 7-15, 7-16, 7-25, 7-36, 7-37, 7-39, 7-40, 8-29, *see also* bulk vitrification, cast stone, steam reforming
- nonthermal supplemental treatment, 2-26, 2-27, 2-77, 2-130–2-133, 2-287, 4-22
- supplemental treatment process (STP), 2-27, 2-31, 2-58, 2-89, 2-93, 2-288, 4-59, 7-11, 7-40
- supplemental treatment technologies, 1-12, 1-19, 2-25, 2-27, 2-28, 2-85, 2-94, 2-97, 2-98, 2-101, 2-128, 2-130, 2-285, 2-287, 4-214, 5-141, 7-16, 7-37
- Supplemental Treatment Technology Site (STTS), 3-63, 3-73, 3-96, 3-98, 4-84–4-90, 4-92, 4-129
- thermal supplemental treatment, 2-25, 2-26, 2-73, 2-76, 2-81, 2-130, 2-131, 2-132, 2-287, 4-22
- surface water, 2-146, 2-160, 2-173, 2-181, 2-189, 2-197, 2-214, 2-215, 2-229, 2-233, 2-236, 2-251, 2-284, 3-39, 3-41, 3-52, 3-90, 3-140, 3-141, 3-159, 4-65–4-70, 4-72, 4-74–4-79, 4-286–4-289, 4-380, 4-381,

- 4-434, 5-303, 5-371, 5-385, 5-390, 5-395, 5-1078, 5-1162, 5-1165, 5-1166, 5-1167, 5-1259, 5-1272, 6-18, 6-19, 6-30, 6-155, 6-156, 6-164, 6-165, 6-169–6-171, 7-13, 7-14, 7-21, 7-64, 8-9, 8-13, 8-14, *see also* aquatic resource, groundwater, water
- surface-water features, 2-146, 2-160, 2-173, 2-174, 2-181, 2-197, 3-39, 3-42, 3-46, 3-142, 4-65–4-67, 4-69–4-74, 4-76, 4-78, 4-79, 4-286–4-288, 4-290, 4-380, 4-381, 4-383, 4-434
- surface-water quality, 3-43, 4-67, 4-69–4-74, 4-76, 4-78, 4-79, 4-286, 4-287, 4-289, 4-290
- surficial material
- surficial deposit, 3-37
- surveillance and maintenance (S&M), 1-14, 1-35, 2-61, 2-177, 2-295, 2-304, 4-303, 4-343
- ## T
- T Plant, 1-10, 1-32, 1-33, 2-3, 2-44, 2-53–2-57, 2-110, 2-113–2-115, 2-117, 2-120, 2-122, 2-135–2-137, 2-142, 2-193, 2-194, 3-23, 3-25, 3-27, 3-78, 3-112, 3-113, 3-115, 3-177, 4-219, 4-256, 4-259, 4-261, 4-266, 4-282, 4-292, 4-294, 4-298, 4-347, 4-352, 4-353, 4-356, 4-359, 4-367, 4-376, 4-384, 4-386–4-388, 4-391, 4-396, 4-397, 4-401, 4-419, 4-420, 4-422, 4-423, 4-444, 5-396, 7-7, 7-46, 7-48, 7-50, 7-60–7-62, 8-29
- T Plant complex, 2-44, 2-53, 2-56, 2-115, 2-117, 2-120, 3-23, 3-25, 3-112, 3-113, 3-115, 4-219, 4-259, 4-261, 4-292, 4-294, 4-298, 4-347, 4-352, 4-367, 4-384, 4-386–4-388, 4-420, 4-444, 7-7, 8-29
- tank and soil removal, 4-439
- Tank Closure alternative, 1-12, 1-13, 1-19, 2-1, 2-9, 2-11, 2-15, 2-23, 2-29, 2-30, 2-38, 2-43, 2-56, 2-57, 2-59, 2-60, 2-61, 2-63, 2-128, 2-130, 2-133, 2-134, 2-142, 2-145, 2-147, 2-150–2-152, 2-154, 2-155, 2-203, 2-204, 2-212–2-215, 2-225, 2-227, 2-229, 2-268, 2-285–2-290, 2-292, 2-295, 2-299, 2-300, 2-303, 2-307, 3-4, 3-9, 3-63, 3-73, 4-1, 4-2, 4-16, 4-17, 4-28–4-32, 4-34, 4-35, 4-50, 4-51, 4-54, 4-61, 4-65, 4-66, 4-106, 4-124, 4-130, 4-137, 4-185, 4-187, 4-196, 4-212–4-219, 4-221–4-223, 4-225, 4-226, 4-228, 4-229, 4-231, 4-232, 4-234, 4-235, 4-237, 4-238, 4-240, 4-241, 4-244, 4-245, 4-248, 4-249, 4-251, 4-263, 4-279, 4-281, 4-302, 4-348, 4-353, 4-357, 4-359, 4-362, 4-374, 4-378, 4-383, 4-391, 4-398, 4-423, 4-431, 4-439, 4-443, 4-447, 5-2, 5-3, 5-35, 5-69, 5-105, 5-173, 5-238, 5-303, 5-362, 5-370, 5-1081, 5-1106, 5-1111, 5-1116, 5-1270, 7-8–7-10, 7-14, 7-15, 7-17, 7-18, 7-21–7-24, 7-35, 7-36, 7-40, 7-41, 7-46, 7-54, 7-55, 7-57, 7-61, 7-62
- Tank Closure Alternative 1, 1-18, 1-23, 2-1, 2-57, 2-63–2-66, 2-128, 2-130, 2-131, 2-139, 2-150, 2-152, 2-154, 2-155, 2-212, 2-213, 2-217, 2-225, 2-227, 2-229, 2-285, 2-286, 2-290, 4-1, 4-28, 4-38, 4-107, 4-131, 4-132, 4-156, 4-157, 4-187, 4-196, 4-197, 4-213, 4-217, 4-219, 4-220, 4-446, 5-2–5-34, 5-68, 5-140, 5-304–5-310, 5-316, 5-362, 5-365–5-3715-1169–5-1171, 5-1196, 5-1259, 5-1260, 5-1262, 5-1263, 6-43, 7-15, 7-31, 7-63, 7-64
- Tank Closure Alternative 2, 1-18, 1-23, 1-24, 2-1, 2-2, 2-57, 2-65–2-72, 2-129, 2-132, 2-151, 2-214, 2-218, 2-219, 2-227, 2-255, 2-263, 2-270, 2-277, 2-278, 2-287–2-289, 2-291, 2-293, 2-297, 2-298, 2-307, 4-38–4-40, 4-109, 4-111, 4-133–4-136, 4-158, 4-159, 4-161–4-163, 4-168, 4-171, 4-178, 4-179, 4-182, 4-197–4-199, 4-222–4-225, 4-426, 4-429, 5-35–5-105, 5-302, 5-310–5-317, 5-323, 5-329, 5-330, 5-342, 5-362, 5-365, 5-397–5-400, 5-420, 5-421, 5-595, 5-719, 5-932, 5-1081, 5-1103, 5-1116, 5-1144, 5-1168, 5-1197, 5-1198, 5-1259, 5-1263, 5-1265, 6-3, 6-5, 7-15, 7-16, 7-34, 7-54, 7-55, 7-63, 7-64, 8-13
- Tank Closure Alternative 2A, 1-18, 1-23, 1-24, 2-2, 2-57, 2-66, 2-67–2-69, 2-132, 2-151, 2-214, 2-218, 2-219, 2-227, 2-263, 2-277, 2-278, 2-291, 4-38, 4-39, 4-109, 4-133, 4-134, 4-158, 4-159, 4-163, 4-168, 4-171, 4-178, 4-179, 4-182, 4-197, 4-198, 4-222, 4-223, 5-35–5-68, 5-310–5-317, 5-365, 5-398, 5-400, 5-595, 5-932, 5-1103, 5-1144, 6-3, 6-5, 7-15, 7-34, 7-54, 7-55, 8-13
- Tank Closure Alternative 2B, 1-18, 1-24, 2-2, 2-57, 2-69–2-72, 2-129, 2-132, 2-255, 2-270, 2-287–2-289, 2-293, 2-297, 2-298, 2-307, 4-39, 4-40, 4-111, 4-135, 4-136, 4-161, 4-162, 4-198, 4-199, 4-224, 4-225, 4-426, 4-429, 5-68–5-105, 5-302, 5-317, 5-323, 5-329, 5-330, 5-342, 5-362, 5-365, 5-397, 5-399, 5-420, 5-421, 5-719, 5-1081, 5-1116, 5-1168, 5-1197, 5-1198, 5-1259, 5-1263, 5-1265, 7-16, 7-63, 7-64
- Tank Closure Alternative 3, 1-25, 1-26, 2-2, 2-26, 2-27, 2-57, 2-73–2-84, 2-131, 2-132, 2-133, 2-256–2-258, 2-270–2-273, 2-287, 2-288, 4-40–4-43, 4-113, 4-115, 4-116, 4-137–4-141, 4-163–4-170, 4-190–4-192, 4-199–4-203, 4-227, 4-228, 4-230, 4-231, 4-233, 4-234, 5-102–5-105, 5-323, 5-365–5-367, 5-397, 5-399, 5-446, 5-472, 5-498, 5-750, 5-780, 5-811, 5-843, 5-1085, 5-1088, 5-1091, 5-1120, 5-1124, 5-1128, 7-16, 7-37
- Tank Closure Alternative 3A, 1-25, 2-2, 2-26, 2-57, 2-73–2-76, 2-131, 2-132, 2-256, 2-270, 2-287, 2-288, 4-40, 4-41, 4-113, 4-137, 4-138, 4-163–4-165, 4-190–4-192, 4-199, 4-200, 4-227, 4-228, 5-102, 5-103, 5-323, 5-365, 5-366, 5-397, 5-399, 5-446, 5-750, 5-1085, 5-1120, 7-16
- Tank Closure Alternative 3B, 1-25, 2-2, 2-27, 2-57, 2-73, 2-77–2-80, 2-131–2-133, 2-257, 2-271, 2-272, 2-288, 4-41, 4-42, 4-115, 4-139, 4-166–4-168, 4-201, 4-230, 4-231, 5-103, 5-104, 5-323, 5-366, 5-397, 5-399, 5-472, 5-780, 5-1088, 5-1124, 7-16
- Tank Closure Alternative 3C, 1-25, 1-2, 2-2, 2-26, 2-57, 2-73, 2-81–2-84, 2-131, 2-132, 2-258, 2-273, 2-288, 4-42, 4-43, 4-116, 4-140, 4-141, 4-168–4-170, 4-202, 4-203, 4-233, 4-234, 5-104, 5-105, 5-323, 5-366, 5-367, 5-397, 5-399, 5-498, 5-811, 5-843, 5-1091, 5-1128, 7-37
- Tank Closure Alternative 4, 1-19, 1-26, 2-2, 2-33, 2-35, 2-57, 2-85–2-89, 2-133, 2-134, 2-141, 2-151, 2-220, 2-221, 2-259, 2-260, 2-274, 2-275, 2-286, 2-290–2-293, 2-298, 4-43, 4-44, 4-117, 4-118, 4-142, 4-143, 4-171–4-173, 4-185, 4-203, 4-204, 4-236, 4-237, 4-442, 4-447, 5-105–5-139, 5-323–5-329, 5-367, 5-397, 5-400, 5-526, 5-1094, 5-1132, 7-11, 7-56, 8-13
- Tank Closure Alternative 5, 1-27, 2-2, 2-23, 2-28, 2-57, 2-89–2-92, 2-128, 2-130–2-134, 2-155, 2-221,

*Draft Tank Closure and Waste Management Environmental Impact Statement for the
Hanford Site, Richland, Washington*

2-222, 2-260, 2-261, 2-276, 2-285, 2-286, 2-289, 2-292, 2-293, 4-44, 4-45, 4-120, 4-144, 4-145, 4-174-4-176, 4-185, 4-204, 4-205, 4-214, 4-238-4-240, 5-139-5-172, 5-330-5-368, 5-398, 5-400, 5-551, 5-874, 5-1097, 5-1136, 7-14, 7-21, 7-22, 7-37

Tank Closure Alternative 6, 1-19, 1-28, 1-29, 1-30, 2-2, 2-35, 2-57, 2-58, 2-93-2-104, 2-120, 2-123, 2-130, 2-150, 2-154, 2-155, 2-221-2-225, 2-227, 2-262, 2-264, 2-266, 2-276, 2-278, 2-279, 2-281, 2-286, 2-290, 2-291, 2-293, 2-298, 4-45-4-50, 4-122, 4-125, 4-127, 4-128, 4-146-4-152, 4-154, 4-155, 4-176-4-182, 4-206-4-211, 4-217, 4-241-4-248, 4-250, 4-251, 4-359, 4-426, 4-427, 4-429, 4-431, 4-434-4-436, 4-439, 4-442, 4-447, 5-172-5-302, 5-336-5-362, 5-368-5-370, 5-398, 5-400, 5-401, 5-569, 5-612, 5-639, 5-666, 5-902, 5-957, 5-986, 5-1017, 5-1048, 5-1100, 5-1106, 5-1111, 5-1140, 5-1148, 5-1155, 5-1168, 5-1169, 5-1227, 5-1228, 5-1229, 5-1259, 5-1266, 5-1268, 5-1269, 6-6, 6-7, 6-9, 6-20, 6-24, 6-39, 6-172, 6-173, 7-7, 7-9, 7-12, 7-20, 7-22-7-24, 7-27, 7-34-7-36, 7-41, 7-54, 7-63, 7-64

Tank Closure Alternative 6A, 1-19, 1-28, 1-29, 2-2, 2-35, 2-57, 2-93-2-97, 2-120, 2-123, 2-130, 2-150, 2-154, 2-155, 2-221-2-225, 2-227, 2-266, 2-281, 2-286, 4-45-4-47, 4-122, 4-146-4-149, 4-176, 4-177, 4-206-4-208, 4-217, 4-241-4-244, 4-359, 4-427, 4-429, 4-431, 4-434-4-436, 4-447, 5-172-5-238, 5-336-5-349, 5-356, 5-368, 5-369, 5-398, 5-401, 5-666, 5-1017, 5-1048, 5-1111, 5-1155, 5-1169, 6-6, 6-7, 6-9, 6-20, 6-39, 6-172, 6-173, 7-7, 7-9, 7-12, 7-20, 7-22-7-24, 7-27, 7-34-7-36, 7-41

Tank Closure Alternative 6A, Base Case, 2-223, 4-45, 4-46, 4-146, 4-148, 4-206, 4-241, 4-242, 4-427, 4-429, 4-435, 5-173-5-175, 5-177, 5-180, 5-183, 5-185, 5-187, 5-188, 5-192, 5-195, 5-196, 5-199-5-210, 5-223-5-228, 5-235, 5-237, 5-336-5-343, 5-349, 5-368, 5-1017

Tank Closure Alternative 6A, Option Case, 2-223, 2-225, 4-46, 4-47, 4-147, 4-149, 4-207, 4-208, 4-243, 4-431, 4-434, 4-436, 5-173, 5-176, 5-178, 5-179, 5-181, 5-182, 5-184, 5-186, 5-189-5-191, 5-193, 5-197, 5-198, 5-211-5-222, 5-229-5-234, 5-236, 5-342-5-348, 5-356, 5-368, 5-369, 5-1048, 5-1169, 6-6, 6-7, 6-9, 6-20, 6-172, 6-173, 7-12, 7-24

Tank Closure Alternative 6B, 2-2, 2-58, 2-93, 2-97-2-101, 2-224, 2-225, 2-264, 2-278, 2-279, 2-290, 2-291, 2-293, 2-298, 4-47-4-49, 4-125, 4-150-4-152, 4-178-4-180, 4-208-4-210, 4-245-4-248, 4-426, 4-429, 4-439, 4-442, 4-447, 5-238-5-301, 5-349-5-361, 5-369, 5-370, 5-398, 5-401, 5-612, 5-639, 5-957, 5-986, 5-1106, 5-1148, 5-1168, 5-1227, 5-1228, 5-1229, 5-1259, 5-1266, 5-1268, 5-1269, 6-24, 7-63, 7-64

Tank Closure Alternative 6B, Base Case, 2-224, 2-291, 2-298, 4-47, 4-48, 4-150, 4-152, 4-208, 4-209, 4-246, 4-426, 4-429, 5-238, 5-240-5-243, 5-245, 5-249, 5-251-5-253, 5-256, 5-257, 5-259, 5-260, 5-263-5-274, 5-287-5-292, 5-299, 5-301, 5-349-5-356, 5-369, 5-612, 5-957, 5-1227, 5-1259, 5-1266, 5-1268, 6-24, 7-63, 7-64

Tank Closure Alternative 6B, Option Case, 2-225, 2-290, 4-48, 4-49, 4-151, 4-209, 4-210, 4-247, 4-442, 5-238, 5-241, 5-242, 5-244, 5-246, 5-247, 5-250, 5-251, 5-254, 5-255, 5-257, 5-258, 5-261, 5-262, 5-275-5-286, 5-293-5-298, 5-300, 5-356-5-361, 5-369, 5-370, 5-639, 5-986

Tank Closure Alternative 6C, 1-29, 1-30, 2-2, 2-58, 2-93, 2-94, 2-101-2-104, 2-262, 2-276, 4-49, 4-50, 4-127, 4-128, 4-154, 4-155, 4-181, 4-182, 4-211, 4-250, 4-251, 5-302, 5-362, 5-370, 5-398, 5-400, 5-569, 5-902, 5-1100, 5-1140, 7-54

Tank Closure EIS, 1-6, 1-10, 1-15, 1-17, 1-18, 1-40, 8-5, 8-6, 8-31

tank farm

- tank farm closure, 2-126, 2-133, 2-142, 2-145, 4-23, 4-29-4-32, 4-50, 4-51, 4-57-4-61, 4-63, 4-64, 4-73, 4-75, 5-420, 5-719, 5-909, 7-54
- tank farm facilities, 1-5, 2-303, 4-155
- tank farm operations, 1-4, 2-1, 2-5, 2-11, 2-16, 2-60, 2-215, 2-309, 4-108, 4-134, 4-136, 4-137, 4-140, 4-141, 4-152, 4-156, 4-450, 5-3, 5-35, 5-69, 5-105, 5-140, 5-173, 5-238
- tank farm system closure, 2-69
- tank farm upgrades, 2-9, 2-11, 2-145

tank removal, 2-35, 2-36, 2-141

tank system, *see also* double-contained receiver tank, double-shell tank, single-shell tank

- tank system closure, 8-13
- tank system upgrades, 4-6, 4-54

tank waste, *see also* Hanford Tank Waste Operation Simulator

- tank waste disposal, 2-124, 2-131, 4-7, 4-9
- tank waste remediation system (TWRS), 1-1, 1-4-1-8, 1-14, 1-18, 1-23, 1-24, 1-36, 1-42, 2-4, 2-11, 2-23, 2-29, 2-63, 2-65, 2-125, 7-2
- tank waste retrieval, 1-5, 1-42, 1-43, 2-15, 2-16, 2-18, 2-30, 2-215, 2-286, 2-307, 3-25, 3-27, 4-1, 4-51, 4-54-4-71, 4-73-4-75, 4-77, 4-80, 4-130, 5-1, 5-3, 7-2, 7-3, 7-7, 7-8, 7-13, 7-34, 7-36, 7-54, 7-55
- tank waste storage, 2-139, 2-143, 7-13
- tank waste treatment, 1-4, 1-18, 1-33, 1-34, 2-23, 2-59, 2-128, 2-130, 3-109, 7-14, 7-28, 7-29, 7-37, 7-65

TC & WM EIS, 1-1, 1-3, 1-6, 1-8, 1-10-1-23, 1-25, 1-30, 1-32-1-42, 2-1, 2-4, 2-5, 2-9, 2-12, 2-15, 2-17, 2-18, 2-21-2-23, 2-25-2-29, 2-31-2-33, 2-35-2-37, 2-42, 2-44, 2-56-2-62, 2-97, 2-100, 2-104, 2-115, 2-124-2-128, 2-136, 2-139-2-142, 2-148, 2-151, 2-152, 2-169, 2-175, 2-177, 2-185, 2-188, 2-191, 2-194, 2-202, 2-203, 2-225, 2-230, 2-235, 2-283, 2-285, 2-290, 2-294, 2-295, 2-299, 2-307, 3-1, 3-4, 3-5, 3-9, 3-12, 3-23, 3-24, 3-34-3-36, 3-74, 3-95, 3-96, 3-101, 3-111, 3-117, 3-119, 3-121, 3-124, 3-127, 3-132, 3-137, 3-138, 3-146, 3-156, 3-161, 3-169, 4-1, 4-231, 4-428, 4-429, 4-435, 4-436, 4-446, 4-449, 5-1, 5-2, 5-9, 5-362, 5-393, 5-394, 5-1162, 5-1269, 6-1-6-3, 6-5-6-7, 6-9-6-28, 6-32-6-36, 6-41-6-43, 6-51, 6-67, 6-70, 6-77, 6-78, 6-86, 6-87, 6-106, 6-109, 6-115, 6-116, 6-125, 6-126, 6-145, 6-148, 6-154-6-158, 6-160, 6-162, 6-164-6-167, 6-169-6-173, 6-179, 7-1, 7-2, 7-5, 7-6, 7-7, 7-9-7-16, 7-18, 7-20-7-27, 7-30, 7-33-7-35, 7-54, 7-61, 8-1, 8-5-8-14, 8-16-8-18, 8-20, 8-21, 8-23, 8-24, 8-27, 8-30-8-32

technetium, 1-6, 1-19, 1-24-1-29, 2-29, 2-33, 2-65, 2-66, 2-69, 2-72, 2-73, 2-76, 2-77, 2-79, 2-80, 2-83-2-85,

- 2-88, 2-89, 2-92–2-94, 2-99, 2-103, 2-131–2-133, 2-204, 2-212, 2-213, 2-217–2-222, 2-224, 2-225, 2-230, 2-231, 2-234, 2-237, 2-248, 2-249, 2-251, 2-252, 2-255–2-267, 2-270–2-279, 2-281, 2-288, 2-289, 2-294, 2-296–2-298, 3-43, 3-47, 3-53, 5-4, 5-6, 5-7, 5-11, 5-16, 5-35, 5-36, 5-39, 5-42, 5-49, 5-66, 5-69–5-71, 5-73, 5-76, 5-83, 5-95, 5-102, 5-105, 5-106, 5-109, 5-112, 5-118, 5-138, 5-140, 5-142, 5-143, 5-145, 5-153, 5-170, 5-173, 5-174, 5-176–5-179, 5-181, 5-186, 5-189, 5-194, 5-235–5-237, 5-239, 5-240, 5-243, 5-245, 5-246, 5-248, 5-263, 5-299, 5-301, 5-304, 5-310, 5-316, 5-317, 5-329, 5-373, 5-375, 5-377, 5-379, 5-380, 5-382–5-384, 5-386, 5-388, 5-402, 5-406, 5-410, 5-421, 5-422, 5-428, 5-432, 5-446, 5-447, 5-454, 5-458, 5-472, 5-473, 5-480, 5-484, 5-498, 5-500, 5-502–5-506, 5-508, 5-525–5-528, 5-530–5-534, 5-538, 5-551–5-553, 5-555, 5-557, 5-560, 5-568–5-570, 5-574, 5-577, 5-581, 5-595, 5-596, 5-600, 5-603, 5-611–5-613, 5-617, 5-621, 5-624, 5-625, 5-639, 5-640, 5-644, 5-648, 5-651, 5-652, 5-667, 5-670, 5-672, 5-675, 5-677, 5-679, 5-682–5-684, 5-691, 5-718, 5-720–5-725, 5-727–5-729, 5-731, 5-735, 5-750, 5-751, 5-753, 5-754, 5-756–5-761, 5-765, 5-780–5-782, 5-784, 5-792, 5-796, 5-810–5-815, 5-817–5-823, 5-825, 5-828, 5-832, 5-835, 5-842–5-847, 5-849, 5-850, 5-852–5-854, 5-859, 5-860, 5-863, 5-866, 5-873, 5-874, 5-876–5-878, 5-880, 5-881, 5-883, 5-887, 5-888, 5-892, 5-895, 5-901–5-904, 5-913, 5-919, 5-931–5-939, 5-943, 5-957–5-965, 5-967, 5-972, 5-986–5-994, 5-996, 5-1002, 5-1017–5-1022, 5-1024–5-1027, 5-1033, 5-1048–5-1050, 5-1058, 5-1063, 5-1077, 5-1079, 5-1081, 5-1085, 5-1088, 5-1091, 5-1094, 5-1097, 5-1100, 5-1103, 5-1106, 5-1111, 5-1116, 5-1120, 5-1124, 5-1128, 5-1132, 5-1136, 5-1140, 5-1144, 5-1148, 5-1155, 5-1169, 5-1170, 5-1173, 5-1179, 5-1197, 5-1198, 5-1200, 5-1206, 5-1226–5-1229, 5-1231, 5-1237, 5-1258, 5-1260, 5-1263, 5-1266, 6-42–6-44, 6-46, 6-51, 6-77, 6-78, 6-81, 6-88, 6-115–6-117, 6-121, 6-127, 6-154, 6-156, 6-158, 6-160, 6-162, 7-5, 7-15, 7-16, 7-31, 7-65
- technetium removal, 1-6, 2-29, 7-5
- technetium-99, 1-6, 1-19, 1-24–1-29, 2-29, 2-65, 2-66, 2-69, 2-72, 2-73, 2-76, 2-77, 2-79, 2-80, 2-83–2-85, 2-88, 2-89, 2-92–2-94, 2-99, 2-103, 2-131–2-133, 2-204, 2-212, 2-213, 2-217–2-222, 2-224, 2-225, 2-230, 2-231, 2-234, 2-237, 2-248, 2-249, 2-251, 2-252, 2-255–2-267, 2-270–2-279, 2-281, 2-288, 2-289, 2-294, 2-296–2-298, 3-43, 3-47, 3-53, 5-4, 5-6, 5-7, 5-11, 5-16, 5-35, 5-36, 5-39, 5-42, 5-49, 5-66, 5-69, 5-70, 5-71, 5-73, 5-76, 5-83, 5-95, 5-102, 5-105, 5-106, 5-109, 5-112, 5-118, 5-138, 5-140, 5-142, 5-143, 5-145, 5-153, 5-170, 5-173, 5-174, 5-176, 5-177, 5-178, 5-179, 5-181, 5-186, 5-189, 5-194, 5-235–5-237, 5-239, 5-240, 5-243, 5-245, 5-246, 5-248, 5-263, 5-299, 5-301, 5-304, 5-310, 5-316, 5-317, 5-329, 5-373, 5-375, 5-377, 5-379, 5-380, 5-382–5-384, 5-386, 5-388, 5-402, 5-406, 5-410, 5-421, 5-422, 5-428, 5-432, 5-446, 5-447, 5-454, 5-458, 5-472, 5-473, 5-480, 5-484, 5-498, 5-500, 5-502–5-506, 5-508, 5-525–5-528, 5-530–5-534, 5-538, 5-551–5-553, 5-555, 5-557, 5-560, 5-568–5-570, 5-574, 5-577, 5-581, 5-595, 5-596, 5-600, 5-603, 5-611–5-613, 5-617, 5-621, 5-624, 5-625, 5-639, 5-640, 5-644, 5-648, 5-651, 5-652, 5-667, 5-670, 5-672, 5-675, 5-677, 5-679, 5-682–5-684, 5-691, 5-718, 5-720–5-725, 5-727–5-729, 5-731, 5-735, 5-750, 5-751, 5-753, 5-754, 5-756–5-761, 5-765, 5-780–5-782, 5-784, 5-792, 5-796, 5-810–5-815, 5-817–5-823, 5-825, 5-828, 5-832, 5-835, 5-842–5-847, 5-849–5-854, 5-859, 5-860, 5-863, 5-866, 5-873, 5-874, 5-876–5-878, 5-880, 5-881, 5-883, 5-887, 5-888, 5-892, 5-895, 5-901–5-904, 5-913, 5-919, 5-931–5-939, 5-943, 5-957–5-965, 5-967, 5-972, 5-986–5-994, 5-996, 5-1002, 5-1017–5-1022, 5-1024–5-1027, 5-1033, 5-1048–5-1050, 5-1058, 5-1063, 5-1077, 5-1079, 5-1081, 5-1085, 5-1088, 5-1091, 5-1094, 5-1097, 5-1100, 5-1103, 5-1106, 5-1111, 5-1116, 5-1120, 5-1124, 5-1128, 5-1132, 5-1136, 5-1140, 5-1144, 5-1148, 5-1155, 5-1169, 5-1170, 5-1173, 5-1179, 5-1197, 5-1198, 5-1200, 5-1206, 5-1226–5-1229, 5-1231, 5-1237, 5-1258, 5-1260, 5-1263, 5-1266, 6-42–6-44, 6-46, 6-51, 6-77, 6-78, 6-81, 6-88, 6-115–6-117, 6-121, 6-127, 6-154, 6-156, 6-158, 6-160, 6-162, 7-5, 7-15, 7-16, 7-31, 7-65
- technetium-99 removal, 1-6, 1-24–1-29, 2-29, 2-66, 2-69, 2-72, 2-73, 2-76, 2-80, 2-83, 2-85, 2-89, 2-92–2-94, 2-131–2-133, 2-289, 7-16
- Technology Readiness Assessment (TRA), 2-124
- tectonics
- tectonic force, 3-28, 3-31
 - tectonic plate, 3-35, 3-133
 - tectonic province, 3-36
- terrestrial resource, 2-141, 2-146, 2-174, 2-190, 3-58, 4-80, 4-81, 4-83–4-92, 4-94, 4-291, 4-292, 4-294, 4-295, 4-385–4-387, 4-435, 6-19, 7-17, 7-56, 7-57, *see also* animals, plants
- plant community, 3-63
 - terrestrial animals, 3-68, 4-81
 - terrestrial habitat, 4-90, 4-92, 4-435, 4-436, 6-19, 6-20, 6-21, 7-16, 7-56
 - terrestrial sediment, 3-133
 - terrestrial species, 3-68, 4-83
 - terrestrial wildlife, 3-61
- theoretical maximum capacity (TMC), 1-24–1-26, 1-28, 1-29, 2-23, 2-59, 2-69, 2-72, 2-76, 2-79, 2-83, 2-88, 2-92, 2-96, 2-99, 2-103, 2-130, 2-150
- thermal treatment, 2-63, 2-73, 2-288, 6-14, 6-15, 7-11
- threatened and endangered species, 2-146, 2-174, 2-190, 3-58, 3-69, 3-73, 4-28, 4-80, 4-268, 4-291, 4-293–4-295, 4-362, 4-388, 4-436, 6-19, 6-21, 7-16, 7-17
- endangered species, 2-147, 2-161, 2-174, 2-182, 2-190, 2-198, 3-58, 3-72–3-74, 3-149, 4-82, 4-84–4-88, 4-90, 4-294, 4-296, 4-386, 4-436, 6-19, 6-21, 6-22, 7-26
 - threatened species, 3-58, 3-72, 8-19
- total recordable cases (TRC), 2-155, 4-252, 4-255, 4-348, 4-350, 4-423, 4-425
- toxic chemical, 2-149, 2-176, 2-192, 3-87, 3-91, 3-94, 3-95, 4-35, 4-272, 4-365, 4-404, 4-405, 7-24, *see also* animals, plants
- Toxic Substances Control Act (TSCA), 3-114, 8-3, 8-16, 8-27, 8-28

- toxicity reference value, 2-236, 2-283, 5-390, 5-1162, 5-1269, 6-166, 6-169
- toxicology
- toxicological risk, 2-229, 2-236, 2-284
- traffic, 2-144, 2-150, 2-151, 2-158, 2-163, 2-171, 2-177, 2-180, 2-183, 2-187, 2-193, 2-196, 2-199, 3-18, 3-19, 3-41, 3-84, 3-125, 3-127, 3-156, 4-28-4-32, 4-105-4-108, 4-110, 4-112, 4-114-4-116, 4-119, 4-121, 4-124, 4-126, 4-128, 4-184, 4-185, 4-187-4-195, 4-268-4-270, 4-302, 4-304, 4-305, 4-307, 4-326-4-328, 4-330, 4-331, 4-333, 4-362, 4-363, 4-392, 4-394, 4-395, 4-409-4-411, 4-413, 4-437, 4-438, 4-442, 4-443, 6-12, 6-13, 6-16, 6-24, 6-25, 6-31, 6-33, 6-34, 7-3, 7-4, 7-10, 7-19, 7-21
- annual average daily traffic (AADT), 3-156
- transient, 3-75, 4-81, 4-155, 5-2, 7-24
- transportation, 1-9, 1-10, 1-14, 1-20-1-22, 1-34, 1-37, 1-40, 2-28, 2-31, 2-37, 2-46, 2-126, 2-142, 2-150, 2-151, 2-176, 2-177, 2-193, 2-300, 2-305, 2-306, 3-2, 3-5, 3-7, 3-12, 3-34, 3-77, 3-83, 3-86, 3-109, 3-119, 3-124, 3-125, 3-127, 3-152, 3-153, 3-156, 4-105, 4-106, 4-114, 4-118, 4-121, 4-123, 4-126, 4-128, 4-184-4-195, 4-197-4-200, 4-202-4-205, 4-207-4-209, 4-211, 4-212, 4-225, 4-231, 4-234, 4-237, 4-240, 4-244, 4-248, 4-302, 4-325-4-335, 4-337-4-342, 4-391, 4-408-4-414, 4-416, 4-418, 4-419, 4-442, 4-443, 6-3-6-5, 6-18, 6-27, 6-29, 6-31-6-34, 6-36, 7-1, 7-19, 7-21, 7-22, 7-27, 7-29, 7-32, 7-55, 8-1, 8-6, 8-11, 8-25-8-27, *see also* accident, historical shipment, transportation impact
- ground transportation, 3-12, 3-125
 - local transportation, 2-147, 2-148, 2-163, 2-174, 2-191, 2-199, 3-81, 3-124, 3-153, 4-105-4-107, 4-110, 4-112, 4-114-4-116, 4-118, 4-121, 4-123, 4-126, 4-128, 4-302, 4-303, 4-391, 4-392, 7-1, 7-19, 7-27, 7-32, 7-41, 7-45, 7-50, 7-53
 - offsite transportation, 1-31, 4-188-4-195, 4-330, 4-333, 4-411, 4-412, 4-414, 6-31, 8-25
 - onsite transportation, 4-185, 4-411
 - radioactive materials transport, 6-34
 - transportation route, 3-77, 4-184, 4-186, 4-197-4-200, 4-202-4-205, 4-207-4-209, 4-211, 4-212, 4-327, 4-335, 4-337-4-342, 4-410, 4-416, 4-418, 4-419, 4-443, 6-32, 7-21
 - Transportation Routing Analysis Geographic Information System, 4-184, 4-451
- transportation impact, 1-22, 4-187, 4-189-4-195, 4-326, 4-328, 4-331, 4-334, 4-408, 4-413, 6-18, 6-32-6-34, 7-19, *see also* accident, historical shipment, transportation
- cumulative transportation impacts, 6-31, 6-33
- transuranics
- transuranic waste (TRU waste), 1-2, 1-3, 1-10, 1-12, 1-24-1-29, 1-31-1-37, 1-39-1-41, 2-4, 2-25, 2-27, 2-28, 2-31, 2-32, 2-49, 2-53, 2-55, 2-56, 2-58, 2-62, 2-63, 2-73, 2-77, 2-80, 2-81, 2-84, 2-85, 2-89, 2-90, 2-93, 2-114, 2-115, 2-117, 2-120, 2-122, 2-123, 2-136-2-138, 2-140, 2-141, 2-151, 2-152, 2-167, 2-288, 2-295, 2-302, 3-109, 3-111-3-113, 3-117-3-119, 3-169, 3-171, 4-164-4-167, 4-169, 4-170, 4-172-4-175, 4-185, 4-186, 4-189, 4-191, 4-192, 4-214, 4-215, 4-217, 4-218, 4-220, 4-222-4-225, 4-227, 4-228, 4-230, 4-231, 4-233, 4-234, 4-236, 4-237, 4-239, 4-240, 4-242-4-244, 4-246-4-251, 4-352, 4-353, 4-356, 4-359, 4-367, 4-376, 4-384, 4-404, 4-419, 4-420, 4-422, 4-444-4-446, 5-396, 6-10, 6-14, 6-17, 6-26, 6-29, 6-30, 6-35, 6-36, 6-39, 7-37, 7-46, 7-60, 7-62, 8-6, 8-16-8-18, 8-25, *see also* mixed TRU waste
- Treated Effluent Disposal Facility (TEDF), 2-30, 2-155, 2-178, 3-42, 3-44, 3-47, 3-51, 3-53, 3-68, 3-117, 4-65, 4-67, 4-68, 4-77, 4-82, 4-84-4-89, 4-91, 4-93, 4-94, 4-218, 4-344, 4-444, 7-13, 7-26, 8-9, 8-10, 8-29
- treatment, *see* waste treatment
- treatment, storage, and disposal (TSD), 1-37, 1-38, 2-49, 2-53, 2-69, 2-151, 2-177, 2-191, 2-193, 2-300, 3-9, 3-109, 4-444, 6-7, 6-36, 6-37, 7-11, 8-11, 8-12, 8-15, 8-18, 8-27, 8-28
- trench, 2-49, 3-113, 3-115, 4-374, 4-377, 4-382, 6-4, 6-30, 6-35-6-38
- cribs and trenches, 1-14, 1-25-1-30, 2-5, 2-9, 2-33, 2-35, 2-63, 2-73, 2-77, 2-81, 2-85, 2-86, 2-89, 2-93-2-95, 2-97, 2-98, 2-100, 2-101, 2-102, 2-104, 2-129, 2-133, 2-134, 2-140, 2-141, 2-148, 2-203, 2-212, 2-213, 2-215, 2-217-2-222, 2-224, 2-290, 2-292, 2-294, 2-302-2-304, 3-56, 4-3, 4-6, 4-7, 4-8, 4-10-4-16, 4-25, 4-26, 4-53, 4-54, 4-56, 4-61-4-65, 4-69-4-73, 4-76-4-79, 4-83, 4-88, 4-91-4-93, 4-95, 4-146, 4-148, 4-151, 4-152, 4-433, 5-3, 5-5, 5-7, 5-11, 5-14-5-16, 5-29, 5-34-5-36, 5-38, 5-39, 5-42, 5-45, 5-46, 5-49, 5-61, 5-68-5-70, 5-72-5-74, 5-76, 5-80, 5-83, 5-96, 5-102-5-106, 5-108-5-110, 5-112, 5-139, 5-140, 5-141, 5-143, 5-145, 5-149, 5-151, 5-153, 5-165, 5-172-5-174, 5-176, 5-178, 5-179, 5-181, 5-182, 5-186, 5-194, 5-222, 5-229, 5-237-5-240, 5-243, 5-244, 5-246-5-248, 5-258, 5-260, 5-263, 5-287, 5-293, 5-300, 5-302-5-304, 5-310, 5-316, 5-317, 5-323, 5-329, 5-330, 5-336, 5-342, 5-343, 5-349, 5-356, 5-362, 5-1106, 5-1111, 5-1148, 5-1155, 5-1177, 5-1179, 5-1191, 5-1196, 5-1204, 5-1205, 5-1221, 5-1235, 5-1236, 5-1253, 5-1258, 5-1260, 5-1263, 5-1266, 6-51, 6-86, 6-87, 6-125, 6-126, 7-10, 7-12, 7-14-7-16, 7-34-7-36, 7-48, 7-54-7-56, 7-64, 7-65
- trenches 31 and 34, 1-32, 1-33, 2-49, 2-55, 2-115, 2-117, 2-120, 2-123, 2-138, 2-154, 2-188, 2-189, 2-193, 2-194, 2-204, 2-237, 2-238, 2-251, 2-252, 2-295, 3-112-3-116, 4-217, 4-219, 4-257, 4-259, 4-260, 4-262, 4-291, 4-296, 4-344, 4-352, 4-357, 4-374, 4-377, 4-380, 4-381, 4-384, 4-388, 4-419, 4-420, 4-422, 4-423, 5-396, 5-397, 5-401, 5-402, 5-405, 5-410, 5-419, 5-420, 5-719, 5-1078, 5-1079, 5-1162, 5-1179, 6-36, 7-4, 7-8, 7-21, 7-46, 7-60, 7-61, 7-63
- Tri-Party Agreement (TPA), 1-3, 1-7-1-9, 1-12, 1-14, 1-16, 1-20, 1-24, 1-25, 1-27, 1-29, 1-34, 1-48, 2-15, 2-59, 2-68, 2-71, 2-75, 2-79, 2-83, 2-87, 2-91, 2-95, 2-99, 2-103, 2-115, 2-310, 3-114, 6-2, 6-29, 6-30, 6-36-6-38, 8-2, 8-12-8-15, 8-28
- tritium, 1-8, 1-9, 2-204-2-211, 2-217-2-222, 2-224, 2-230, 2-231, 2-234, 2-237-2-247, 3-5, 3-24, 3-42, 3-43, 3-46-3-48, 3-52, 3-53, 3-57, 3-115, 3-132, 3-141, 3-144, 3-146, 4-132, 4-308, 4-311, 4-313, 5-4, 5-5, 5-7, 5-8, 5-10, 5-11, 5-15, 5-34-5-36, 5-38, 5-39, 5-41, 5-42, 5-46, 5-68-5-70, 5-73-5-75, 5-80, 5-102,

- 5-105, 5-106, 5-109–5-111, 5-116, 5-139–5-141, 5-143, 5-145, 5-146, 5-151, 5-172–5-174, 5-176, 5-178, 5-179, 5-181–5-185, 5-194, 5-237, 5-239, 5-240, 5-243, 5-244, 5-246–5-250, 5-258, 5-260, 5-301, 5-304, 5-310, 5-316, 5-317, 5-329, 5-373, 5-375, 5-377–5-379, 5-382, 5-386, 5-393, 5-394, 5-1169–5-1172, 5-1177, 5-1196–5-1198, 5-1200, 5-1204, 5-1226–5-1230, 5-1235, 5-1258, 5-1259, 5-1260, 5-1263, 5-1266, 6-31, 6-42–6-44, 6-46, 6-51, 6-77, 6-78, 6-81, 6-86, 6-115–6-117, 6-119, 6-125, 6-154, 6-156, 6-158, 6-160, 6-162, 6-166, 7-5, 7-15, 7-31
- tritium plume, 5-80
- two-state region, 3-96, 3-104
- TWRS EIS*, 1-1, 1-4–1-8, 1-14, 1-18, 1-23, 1-24, 1-36, 1-42, 2-4, 2-11, 2-23, 2-29, 2-63, 2-65, 2-125, 7-2
- ## U
- U.S. Department of Transportation (DOT), 2-61, 2-154, 2-178, 2-194, 3-116, 3-187, 4-184, 4-218, 4-221, 4-343, 4-420, 6-33, 6-177, 7-27, 8-25, 8-26
- U.S. Environmental Protection Agency (EPA), 1-1–1-3, 1-8, 1-9, 1-13, 1-15, 1-18, 1-47, 1-48, 2-15, 2-25, 2-59, 2-68, 2-71, 2-75, 2-79, 2-83, 2-87, 2-91, 2-95, 2-99, 2-103, 2-115, 2-127, 2-212, 2-231, 2-248, 2-310, 2-312, 3-1, 3-5, 3-18, 3-21–3-23, 3-26, 3-42, 3-43, 3-53, 3-90, 3-91, 3-114, 3-127, 3-129, 3-130, 3-141, 3-143, 3-144, 3-146, 3-159, 3-173, 3-174, 3-179, 3-182, 3-187–3-189, 4-160, 4-405, 4-450, 4-452, 5-1272, 6-1, 6-16, 6-37, 6-38, 6-166, 6-177, 6-178, 6-180, 7-11, 8-1, 8-2, 8-5, 8-7–8-18, 8-25–8-30, 8-32–8-34
- U.S. Fish and Wildlife Service (USFWS), 1-17, 1-40, 1-48, 3-6, 3-7, 3-41, 3-58, 3-62, 3-69, 3-72, 3-149, 3-150, 3-175, 3-185, 3-189, 6-10, 6-12, 6-17, 6-18, 6-23, 6-180, 8-19, 8-20, 8-30–8-32
- U.S. Geological Survey (USGS), 3-28, 3-35, 3-36, 3-136, 3-141–3-144, 3-181, 3-185, 5-2, 5-1273
- U.S. Nuclear Regulatory Commission (NRC), 1-39, 1-40, 1-48, 2-31, 2-142, 2-311, 3-36, 3-95, 3-187, 3-189, 6-33, 6-39, 6-179, 8-11, 8-16–8-18, 8-25, 8-26
- Umatilla, *see* American Indian
- uranium, 1-2, 2-3, 2-5, 2-9, 2-33, 2-105, 2-111, 2-113, 2-134, 2-135, 2-204–2-212, 2-217–2-220, 2-227, 2-230, 2-231, 2-237–2-247, 2-264, 2-266, 2-294, 3-2, 3-26, 3-42, 3-43, 3-47, 3-110, 3-141, 3-146, 3-152, 4-132, 4-135, 4-311, 4-313, 5-4, 5-7, 5-8, 5-10, 5-14, 5-29, 5-35, 5-36, 5-39, 5-41, 5-45, 5-61, 5-66, 5-68–5-70, 5-72, 5-73, 5-75, 5-76, 5-96, 5-101, 5-102, 5-105, 5-106, 5-108, 5-109, 5-111, 5-112, 5-130, 5-138–5-141, 5-143, 5-146, 5-149, 5-165, 5-170, 5-172–5-174, 5-176, 5-178, 5-179, 5-181, 5-183, 5-191, 5-222, 5-229, 5-237, 5-238–5-240, 5-243, 5-244–5-247, 5-249, 5-256, 5-287, 5-293, 5-300, 5-301, 5-304, 5-316, 5-317, 5-329, 5-406, 5-410, 5-471, 5-472, 5-480, 5-484, 5-497, 5-498, 5-511, 5-512, 5-526, 5-537, 5-538, 5-550, 5-555, 5-557, 5-577, 5-581, 5-594, 5-596, 5-600, 5-621, 5-624, 5-625, 5-638, 5-648, 5-651, 5-652, 5-666, 5-667, 5-690–5-692, 5-718, 5-734, 5-748, 5-749, 5-764, 5-778–5-780, 5-794, 5-809, 5-811, 5-827, 5-841, 5-842, 5-858, 5-859, 5-872, 5-873, 5-887, 5-888, 5-901–5-903, 5-917, 5-930, 5-931, 5-942, 5-956, 5-957, 5-971, 5-984, 5-985, 5-1000, 5-1015, 5-1016, 5-1031, 5-1046–5-1048, 5-1061, 5-1076, 5-1077, 5-1106, 5-1111, 5-1169, 5-1170, 5-1172, 5-1175, 5-1191, 5-1197–5-1199, 5-1203, 5-1221, 5-1226–5-1230, 5-1234, 5-1253, 5-1258–5-1260, 5-1263, 5-1266, 6-33, 6-42–6-44, 6-49, 6-70, 6-77, 6-78, 6-84, 6-109, 6-115–6-117, 6-124, 6-148, 6-154–6-156, 6-158, 6-160, 6-162, 6-166–6-169, 7-5, 7-15, 7-31, 8-10
- depleted uranium, 1-32
- uranium-233, 2-205–2-211, 2-230, 2-231, 2-238–2-247, 5-10, 5-41, 5-75, 5-111, 5-146, 5-183, 5-249, 5-1172, 5-1199, 5-1230
- uranium-234, 3-26, 3-42, 3-43
- uranium-235, 3-26
- uranium-238, 2-204, 2-212, 2-217–2-220, 2-230, 2-237, 5-4, 5-7, 5-8, 5-14, 5-29, 5-35, 5-36, 5-39, 5-45, 5-61, 5-66, 5-68–5-70, 5-72, 5-73, 5-76, 5-96, 5-101, 5-102, 5-105, 5-106, 5-108, 5-109, 5-112, 5-130, 5-138–5-141, 5-143, 5-149, 5-165, 5-170, 5-172–5-174, 5-176, 5-178, 5-179, 5-181, 5-191, 5-222, 5-229, 5-237–5-240, 5-243, 5-244, 5-246, 5-247, 5-256, 5-287, 5-293, 5-300, 5-301, 5-304, 5-316, 5-317, 5-329, 5-406, 5-410, 5-471, 5-472, 5-497, 5-550, 5-555, 5-557, 5-594, 5-596, 5-600, 5-734, 5-748, 5-749, 5-764, 5-778–5-780, 5-794, 5-809, 5-811, 5-827, 5-841, 5-842, 5-858, 5-859, 5-872, 5-874, 5-887, 5-888, 5-901, 5-902, 5-917, 5-930, 5-931, 5-942, 5-956, 5-957, 5-971, 5-1015, 5-1031, 5-1046, 5-1048, 5-1061, 5-1076, 5-1169, 5-1170, 5-1175, 5-1191, 5-1197, 5-1198, 5-1203, 5-1221, 5-1226–5-1229, 5-1234, 5-1253, 5-1258, 5-1259, 6-42–6-44, 6-49, 6-70, 6-77, 6-78, 6-84, 6-109, 6-115–6-117, 6-124, 6-148, 6-154, 6-155, 6-166, 6-168, 6-169, 7-5, 7-15, 7-31
- utility resource, 2-170, 2-186, 2-290, 2-292, 4-23, 4-25, 4-266, 4-267, 4-360, 4-361, 4-429, 6-9, 6-11, 6-12, 7-34, 7-50, 7-53
- ## V
- vacuum-based retrieval (VBR), 2-15, 2-16, 2-17, 2-21, 2-68, 2-71, 2-75, 2-79, 2-83, 2-87, 2-91, 2-96, 2-99, 2-103, 2-140, 4-29–4-32, 4-68
- vadose zone, 1-5, 1-7, 1-13, 2-9, 2-34, 2-43, 2-57, 2-132, 2-141, 2-146, 2-173, 2-174, 2-182, 2-189, 2-198, 2-204, 2-212, 2-215, 2-217, 2-230, 2-231, 2-237, 2-248, 2-249, 2-290, 2-293, 2-298, 3-33, 3-34, 3-39, 3-46–3-48, 3-52, 3-143, 3-144, 4-60, 4-62, 4-65–4-70, 4-72–4-75, 4-77, 4-79, 4-80, 4-286, 4-288–4-290, 4-381, 4-382, 4-434, 5-2–5-8, 5-29, 5-35, 5-36, 5-38, 5-39, 5-61, 5-69–5-73, 5-96, 5-101, 5-105, 5-106, 5-108, 5-109, 5-130, 5-140–5-143, 5-165, 5-173, 5-174, 5-176–5-179, 5-181, 5-194, 5-222, 5-237–5-240, 5-243, 5-244, 5-246, 5-247, 5-260, 5-287, 5-300, 5-304, 5-310, 5-373, 5-380, 5-402, 5-403, 5-410, 5-421, 5-422, 5-445–5-447, 5-458, 5-473, 5-484, 5-498–5-500, 5-502–5-504, 5-512, 5-527, 5-528, 5-531, 5-532, 5-538, 5-551–5-553, 5-555, 5-569, 5-570, 5-574, 5-581, 5-596, 5-612, 5-613, 5-617, 5-639, 5-640, 5-644, 5-667,

- 5-669, 5-670, 5-672, 5-675-5-677, 5-692, 5-720-5-722, 5-724, 5-725, 5-727, 5-728, 5-734, 5-748, 5-750, 5-751, 5-754, 5-756, 5-758, 5-759, 5-764, 5-778, 5-781, 5-782, 5-785, 5-786, 5-788, 5-789, 5-809, 5-812-5-815, 5-817-5-821, 5-827, 5-843-5-847, 5-849-5-853, 5-858, 5-875, 5-876, 5-878, 5-880, 5-881, 5-903, 5-904, 5-906, 5-907, 5-909, 5-910, 5-930, 5-933, 5-934, 5-936, 5-937, 5-942, 5-956, 5-958, 5-959, 5-961-5-965, 5-984, 5-986-5-988, 5-990-5-994, 5-1015, 5-1018, 5-1019, 5-1021, 5-1022, 5-1024, 5-1025, 5-1031, 5-1046, 5-1049, 5-1050, 5-1052, 5-1053, 5-1055, 5-1056, 5-1076, 5-1169, 5-1170, 5-1191, 5-1197, 5-1198, 5-1221, 5-1227, 5-1228, 5-1253, 6-18, 6-19, 6-42, 6-43, 6-70, 6-77, 6-78, 6-109, 6-116, 6-117, 6-148, 6-164, 7-13-7-15, 7-18, 7-21, 7-57, 7-59, 7-62
- vegetation, 2-34, 2-144, 2-171, 2-187, 3-6, 3-11, 3-12, 3-31, 3-47, 3-58, 3-61-3-63, 3-67, 3-73, 3-147, 3-149, 4-261, 4-262, 4-353-4-355, 7-23, 7-26, 7-28, 7-57, 7-58, 7-61
- vibration, 1-22, 3-1, 4-28, 4-268, 4-362, 6-3, 6-5, 6-13
ground vibration, 3-19, 4-28, 4-268, 4-362, 6-13
- viewshed, 2-147, 2-163, 2-191, 2-199, 4-353, 4-354, 6-6, 6-8, 6-9, 6-23
- visual resource, 2-186, 3-5, 3-123, 4-6-4-16, 4-101, 4-104, 4-105, 4-259-4-261, 4-263, 4-298, 4-299, 4-353-4-356, 4-389, 4-428, 4-429, 6-3, 6-5, 6-6, 6-8, 7-23, 7-26
- vitriification, 1-8, 1-18-1-20, 1-23-1-25, 1-28, 1-29, 1-34, 2-4, 2-5, 2-23, 2-25, 2-26, 2-65, 2-66, 2-69, 2-72, 2-76, 2-79, 2-83, 2-88, 2-92-2-94, 2-96, 2-99, 2-103, 2-128, 2-130, 2-132, 2-133, 2-140, 2-249, 2-285, 2-286, 2-288, 3-111, 4-7, 4-12, 4-17, 4-57, 4-73, 4-115, 4-116, 4-185, 4-213, 4-214, 5-446, 5-526, 5-551, 5-1085, 5-1094, 5-1097, 5-1120, 5-1132, 5-1136, 7-16, 7-36, 7-37, 7-39, 8-11, 8-16, *see also* bulk vitriification
- high-level waste vitriification, 1-29, 2-12, 2-32, 2-94, 2-96, 4-15, 4-61, 4-65
- low-activity waste vitriification, 1-18, 1-24, 1-28, 1-29, 2-12, 2-23, 2-29, 2-31, 2-59, 2-72, 2-92, 2-99, 2-103, 2-125, 2-130, 2-286, 4-14, 4-56, 4-63
- volatile organic compound (VOC), 3-43, 3-56, 3-191, 6-16
- 4-381, 4-446, 4-450, 4-453, 6-4, 6-8, 6-10, 6-12, 6-13, 6-15, 6-17, 6-18, 6-21, 6-27, 6-30, 6-36, 6-38, 6-166, 6-173, 6-177, 6-180, 6-181, 7-2, 7-4, 7-5, 7-31, 7-66, 8-5-8-8, 8-10-8-14, 8-16, 8-25, 8-27-8-30, 8-33, 8-34
- Washington State Department of Transportation (WSDOT), 3-84
- Washington State Hazardous Waste Management Act, 8-2, 8-12, 8-14, 8-27
- waste acceptance criteria
WIPP Waste Acceptance Criteria, 4-214
- waste acceptance criteria, 2-35, 2-43, 2-49, 2-60, 3-112, 3-113, 7-3, 7-14
- waste activities, 8-11
waste characterization, 2-30, 2-126, 8-18
waste classification, 2-126, 2-140
waste inventories, 2-33, 2-140, 2-142, 2-192, 4-68-4-71, 4-73-4-75, 4-80, 4-212, 4-343, 4-419, 5-420, 7-14
- Waste Area Group, 3-146
- waste container, 2-27, 2-45, 2-46, 2-49, 2-54, 2-133, 2-192, 3-25, 3-27, 3-111, 3-112, 3-121, 4-396, 4-402-4-407, 6-30, 6-36
- Waste Encapsulation and Storage Facility (WESF), 1-14, 1-23-1-29, 2-30, 2-64, 2-69, 2-72, 2-76, 2-79, 2-83, 2-88, 2-93, 2-97, 2-100, 2-103, 2-133, 2-152, 2-311, 3-27, 3-110, 4-213, 4-444, 4-446
- waste form, 1-5, 1-13, 1-19, 2-25-2-29, 2-32, 2-35, 2-59, 2-60, 2-97, 2-101, 2-125, 2-132, 2-133, 2-140, 2-141, 2-151, 2-152, 2-177, 2-194, 2-248, 2-249, 2-252, 2-255, 2-256, 2-258-2-262, 2-264, 2-265, 2-267, 2-270-2-272, 2-274-2-279, 2-281, 2-287, 2-288, 2-299, 2-300, 2-302-2-304, 2-306, 4-57, 4-76, 4-78, 4-214, 5-421, 5-552, 5-613, 5-640, 5-812, 5-815, 5-817, 5-844, 5-845, 5-847, 5-849, 5-875, 5-876, 5-878, 5-880, 5-1078, 5-1085, 5-1088, 5-1094, 5-1097, 5-1120, 5-1132, 5-1136, 5-1197, 5-1198, 5-1200, 5-1205, 5-1227, 5-1228, 5-1231, 5-1236, 6-78, 6-87, 6-116, 6-126, 7-5, 7-8, 7-14-7-16, 7-18, 7-22, 7-25, 7-28, 7-36, 7-42, 7-47, 7-52, 7-57, 7-59, 7-62, 7-63
- waste generation, 2-141, 2-151, 2-154, 2-177, 2-193, 2-287, 2-294, 3-109, 3-171, 4-212, 4-218, 4-343, 4-419, 4-444, 5-420, 5-595, 5-666, 5-719, 5-932, 5-1017, 6-3, 6-34, 6-39, 7-22, 7-28, 7-33, 8-30
- waste generation rate, 2-151, 2-154, 2-177, 2-193, 3-109, 3-171, 4-218, 4-444
- waste incidental to reprocessing (WIR), 1-28, 2-140, 8-18, 8-30
- Waste Isolation Pilot Plant (WIPP), 1-3, 1-10, 1-12, 1-25-1-28, 1-32, 1-33, 1-35, 1-37, 1-40, 1-45, 1-46, 1-49, 1-50, 2-25, 2-27, 2-28, 2-31, 2-32, 2-55, 2-60, 2-62, 2-77, 2-80, 2-84, 2-89, 2-93, 2-115, 2-120, 2-123, 2-129, 2-131, 2-136, 2-150-2-152, 2-288, 2-295, 2-300, 2-309, 2-313, 3-109, 3-111, 3-112, 3-118, 3-171, 3-178, 3-188, 3-189, 3-190, 4-185, 4-186, 4-189-4-192, 4-200, 4-202-4-205, 4-214, 4-215, 4-217-4-219, 4-223, 4-225, 4-226, 4-228, 4-229, 4-231, 4-232, 4-234, 4-235, 4-237, 4-238, 4-240, 4-244, 4-248, 4-446, 4-449, 4-452, 5-396, 6-39, 7-63, 8-3, 8-6, 8-17, 8-25, 8-34
- waste management, *see also* dangerous waste, hazardous waste, interim storage, radioactive waste, radioactive

- waste management, radioactive waste and materials management, special waste, waste transfer
- hazardous waste management, 8-11–8-13, 8-15
- retrievably stored waste, 6-36
- retrieval, treatment, and disposal, 1-1, 1-4, 1-34, 2-124, 2-128, 2-139, 2-143, 2-285, 7-55, 7-64
- waste disposal, 1-11, 1-32, 1-33, 1-39, 2-30, 2-31, 2-45, 2-49, 2-56, 2-58, 2-60, 2-62, 2-131, 2-132, 2-138, 2-151, 2-177, 2-188, 2-190, 2-193, 2-249, 2-304, 2-307, 3-2, 3-9, 3-46, 3-63, 3-112, 3-144, 3-149, 4-225, 4-231, 4-234, 4-237, 4-240, 4-352, 4-357, 4-359, 4-374, 4-380, 4-382, 4-385, 4-387, 4-391, 4-397, 4-401, 4-419, 4-426, 4-444, 4-446, 5-396, 5-719, 5-957, 5-986, 5-1168, 6-3, 6-4, 6-38, 7-3, 7-8, 7-26, 7-46, 7-54, 7-61, 7-62, 8-17, 8-18
- waste form disposal, 2-299, 2-300
- waste minimization and pollution prevention, 3-172
- waste minimization, 3-172, 4-218, 7-4, 7-22
- waste retrieval, 1-5, 1-7, 1-12, 1-19, 1-24, 1-25, 1-28, 1-29, 2-4, 2-11, 2-15–2-19, 2-36, 2-53, 2-59, 2-68, 2-71, 2-75, 2-79, 2-83, 2-91, 2-92, 2-103, 2-126, 2-130, 2-143, 2-151, 2-215, 2-224, 2-300, 3-25, 3-27, 4-21–4-23, 4-51, 4-55–4-62, 4-64, 4-66, 4-68–4-76, 4-78–4-80, 4-155, 4-158, 4-159, 4-161, 4-162, 4-164–4-167, 4-169, 4-170, 4-172–4-175, 4-177, 4-179–4-182, 4-217, 5-238, 5-349, 5-356, 5-1168, 7-2, 7-25, 7-40, 7-57
- waste retrieval benchmarks, 1-12, 1-19, 2-15, 2-17
- waste retrieval system, 2-59, 3-25, 3-27
- waste storage, 1-12, 1-13, 1-23, 1-36, 1-41, 2-9, 2-124, 2-186, 2-188, 3-2, 3-52, 3-111, 4-156, 4-352, 4-357, 4-380, 5-396, 7-48, 7-50, 7-55, 8-29
- waste treatment, 1-4, 1-5, 1-6, 1-8, 1-11–1-13, 1-15, 1-16, 1-18, 1-19, 1-24, 1-27, 1-28, 1-37, 1-42, 2-5, 2-21, 2-23, 2-32, 2-37, 2-69, 2-128, 2-130, 2-153, 2-160, 2-172, 2-178, 2-186, 2-188, 2-189, 2-193, 2-194, 2-287, 2-288, 2-303, 4-17, 4-68–4-79, 4-155, 4-156, 4-160, 4-215, 4-216, 4-279, 4-343, 4-356, 4-359, 4-360, 4-374, 4-376, 4-378, 4-380, 4-381, 4-383, 4-402, 4-419, 4-420, 4-423, 4-425, 4-439, 6-4, 6-11, 7-10, 7-11, 7-20, 7-25, 7-29, 7-56, 7-62, 8-28
- waste treatment technologies, 2-23, 7-11
- Waste Management Alternative 1, 1-32, 2-2, 2-58, 2-62, 2-115–2-117, 2-136, 2-138, 2-139, 2-186, 2-188, 2-189, 2-191–2-194, 2-238, 2-248, 2-251–2-253, 2-283, 2-295, 2-296, 2-306, 4-219, 4-221, 4-352, 4-357, 4-362, 4-367, 4-368, 4-380, 4-397, 4-402–4-404, 4-415, 4-416, 4-419, 4-420, 5-396, 5-401–5-419, 5-1079, 5-1080, 5-1081, 5-1162, 5-1165, 5-1166, 5-1169, 5-1170, 5-1171, 5-1179, 5-1196, 5-1259, 5-1260, 5-1262, 6-77, 7-63, 7-64
- Waste Management Alternative 2, 1-32, 2-2, 2-56, 2-58, 2-62, 2-117–2-120, 2-138, 2-139, 2-153, 2-154, 2-187, 2-189, 2-191, 2-193, 2-238–2-240, 2-244, 2-246, 2-248, 2-249, 2-251, 2-253–2-268, 2-285, 2-295–2-298, 4-216, 4-217, 4-221–4-244, 4-246–4-251, 4-352, 4-359, 4-362, 4-367, 4-369–4-371, 4-377, 4-378, 4-381, 4-383, 4-388–4-391, 4-394, 4-395, 4-397–4-401, 4-406, 4-407, 4-416–4-419, 4-422, 4-426, 4-429, 4-431, 4-434, 4-436, 4-446, 4-447, 5-396, 5-419–5-511, 5-513–5-624, 5-626–5-717, 5-986, 5-1081, 5-1083–5-1115, 5-1163, 5-1165–5-1168, 5-1197–5-1199, 5-1227–5-1229, 5-1259, 5-1263, 5-1265, 5-1266, 5-1268, 6-79, 6-117, 7-12, 7-16, 7-24, 7-47, 7-61, 7-63, 7-64
- Waste Management Alternative 2, Disposal Group 1, 2-153, 2-189, 2-255–2-263, 2-285, 4-216, 4-224–4-240, 4-250, 4-251, 4-359, 4-369, 4-389, 4-399, 5-420–5-511, 5-513–5-594, 5-639, 5-1083, 5-1084, 5-1086, 5-1087, 5-1089, 5-1090, 5-1092, 5-1093, 5-1095, 5-1096, 5-1098, 5-1099, 5-1101, 5-1102, 5-1163, 5-1165–5-1167, 5-1259, 5-1263, 5-1265, 7-63, 7-64
- Waste Management Alternative 2, Disposal Group 1, Subgroup 1-A, 2-255, 5-420–5-445, 5-1083, 5-1084, 5-1259, 5-1263, 5-1265
- Waste Management Alternative 2, Disposal Group 1, Subgroup 1-B, 2-256, 2-257, 5-446–5-471, 5-1086, 5-1087
- Waste Management Alternative 2, Disposal Group 1, Subgroup 1-C, 2-257, 2-258, 5-472–5-497, 5-1089, 5-1090
- Waste Management Alternative 2, Disposal Group 1, Subgroup 1-D, 2-258, 2-259, 2-285, 5-498–5-511, 5-513–5-525, 5-1092, 5-1093, 5-1165, 5-1167
- Waste Management Alternative 2, Disposal Group 1, Subgroup 1-E, 2-259, 2-260, 5-526–5-551, 5-639, 5-1095, 5-1096
- Waste Management Alternative 2, Disposal Group 1, Subgroup 1-F, 2-260, 5-551–5-568, 5-1098, 5-1099
- Waste Management Alternative 2, Disposal Group 1, Subgroup 1-G, 2-262, 5-569–5-594, 5-1101, 5-1102
- Waste Management Alternative 2, Disposal Group 1, Subgroup 2-B, Base Case, 5-612–5-624, 5-626–5-640, 5-644, 5-648, 5-652, 5-666, 5-1107, 5-1109, 5-1227, 5-1259, 5-1266, 5-1268
- Waste Management Alternative 2, Disposal Group 2, 2-153, 2-263–2-266, 4-216, 4-221–4-223, 4-246–4-249, 4-370, 4-377, 4-390, 4-400, 4-429, 5-595–5-666, 5-986, 5-1104, 5-1105, 5-1107–5-1110, 5-1165, 5-1166, 5-1227, 5-1259, 5-1266, 5-1268, 7-63, 7-64
- Waste Management Alternative 2, Disposal Group 2, Subgroup 2-A, 2-263, 5-595–5-611, 5-1104, 5-1105, 5-1165
- Waste Management Alternative 2, Disposal Group 2, Subgroup 2-B, 2-264, 5-612–5-624, 5-626–5-666, 5-986, 5-1107–5-1110, 5-1165, 5-1227, 5-1259, 5-1266, 5-1268
- Waste Management Alternative 2, Disposal Group 2, Subgroup 2-B, Option Case, 5-617, 5-639, 5-641–5-647, 5-649–5-651, 5-653–5-666, 5-986, 5-1108, 5-1110
- Waste Management Alternative 2, Disposal Group 3, 2-154, 2-266, 2-267, 2-268, 4-217, 4-241–4-244, 4-371, 4-401, 5-666–5-717, 5-1112–5-1115, 5-1165, 7-12
- Waste Management Alternative 2, Disposal Group 3, Base Case, 5-668, 5-670, 5-671, 5-673, 5-675, 5-677, 5-679, 5-681, 5-682, 5-684, 5-686, 5-688, 5-690, 5-692–5-703, 5-716, 5-1112, 5-1114
- Waste Management Alternative 3, 1-33, 2-2, 2-56, 2-58, 2-62, 2-120–2-123, 2-138, 2-139, 2-153, 2-154, 2-189, 2-238, 2-241–2-243, 2-245, 2-247, 2-249, 2-251, 2-268–2-283, 2-295–2-298, 4-216, 4-217,

*Draft Tank Closure and Waste Management Environmental Impact Statement for the
Hanford Site, Richland, Washington*

- 4-221-4-352, 4-356, 4-360, 4-363, 4-371-4-373, 4-378, 4-379, 4-383, 4-387, 4-391, 4-395, 4-401, 4-402, 4-418, 4-422, 4-423, 4-425, 4-427, 4-429, 4-435, 4-446, 5-396, 5-666, 5-719-5-758, 5-761-5-1027, 5-1029-5-1077, 5-1116-5-1161, 5-1165-5-1167, 6-6, 6-7, 6-9, 6-20, 7-15, 7-16, 7-47, 7-61
- Waste Management Alternative 3, Disposal Group 1, 2-153, 2-189, 2-270-2-278, 2-283, 4-216, 4-224-4-240, 4-250, 4-251, 4-372, 4-378, 4-379, 4-401, 5-719-5-758, 5-761-5-887, 5-889-5-931, 5-1117-5-1124, 5-1126-5-1144, 5-1148, 5-1155, 5-1166
- Waste Management Alternative 3, Disposal Group 1, Subgroup 1-A, 2-270, 5-719-5-749, 5-1117-5-1120, 5-1124, 5-1128, 5-1132, 5-1136, 5-1140, 5-1144, 5-1148, 5-1155
- Waste Management Alternative 3, Disposal Group 1, Subgroup 1-B, 2-270, 5-750-5-758, 5-761-5-779, 5-1121-5-1123
- Waste Management Alternative 3, Disposal Group 1, Subgroup 1-C, 2-271, 5-780-5-810, 5-1126, 5-1127
- Waste Management Alternative 3, Disposal Group 1, Subgroup 1-D, 2-273, 5-811-5-842, 5-1129-5-1131, 5-1166
- Waste Management Alternative 3, Disposal Group 1, Subgroup 1-E, 2-274, 5-843-5-873, 5-1133-5-1135
- Waste Management Alternative 3, Disposal Group 1, Subgroup 1-F, 2-276, 5-874-5-887, 5-889-5-901, 5-1137-5-1139
- Waste Management Alternative 3, Disposal Group 1, Subgroup 1-G, 2-276, 5-902-5-931, 5-1141-5-1143
- Waste Management Alternative 3, Disposal Group 2, 2-153, 2-277-2-280, 4-216, 4-221, 4-222, 4-223, 4-246-4-249, 4-373, 4-379, 4-383, 4-391, 4-402, 5-932-5-1016, 5-1125, 5-1145-5-1147, 5-1149-5-1154, 5-1166, 5-1167
- Waste Management Alternative 3, Disposal Group 2, Subgroup 2-A, 2-277, 5-932-5-957, 5-986, 5-1145-5-1147
- Waste Management Alternative 3, Disposal Group 2, Subgroup 2-B, 2-278, 5-957-5-975, 5-977-5-1016, 5-1149-5-1154, 5-1166
- Waste Management Alternative 3, Disposal Group 2, Subgroup 2-B, Base Case, 5-957-5-975, 5-977-5-985, 5-1149, 5-1150, 5-1153
- Waste Management Alternative 3, Disposal Group 2, Subgroup 2-B, Option Case, 5-986-5-1016, 5-1151, 5-1152, 5-1154
- Waste Management Alternative 3, Disposal Group 3, 2-154, 2-281, 2-282, 4-217, 4-241-4-244, 4-373, 4-402
- Waste Management Alternative 3, Disposal Group 3, 5-666, 5-1017-5-1027, 5-1029-5-1077, 5-1156-5-1161, 5-1166, 5-1167
- Waste Management Alternative 3, Disposal Group 3, Base Case, 2-282, 5-1017-5-1047, 5-1156, 5-1157, 5-1160
- Waste Management Alternative 3, Disposal Group 3, Option Case, 2-282, 5-1048-5-1077, 5-1158, 5-1159, 5-1161
- Waste Management alternative, 1-32, 2-1, 2-2, 2-56-2-58, 2-62, 2-114, 2-115, 2-128, 2-136, 2-138, 2-139, 2-142, 2-151, 2-152, 2-177, 2-186-2-188, 2-191-2-194, 2-203, 2-237, 2-248, 2-249, 2-251, 2-283-2-285, 2-288, 2-295, 2-299, 2-305, 2-308, 4-212, 4-215, 4-343, 4-352, 4-353, 4-355-4-357, 4-362, 4-363, 4-374, 4-376, 4-386, 4-389-4-391, 4-396, 4-397, 4-402, 4-408, 4-410, 4-413, 4-415-4-417, 4-419, 4-420, 4-422, 4-423, 4-426, 4-427, 4-429, 4-431, 4-432, 4-434, 4-436, 4-437, 4-439, 4-441-4-443, 4-446, 4-447, 5-303, 5-372, 5-385, 5-391, 5-393, 5-394, 5-396, 5-1078, 5-1162, 5-1167, 5-1168, 5-1259, 5-1269, 6-3, 6-34, 6-36, 6-39, 6-43, 6-115, 6-154, 6-164, 7-7, 7-9, 7-10, 7-15, 7-17, 7-18, 7-21, 7-23-7-25, 7-34, 7-46, 7-47, 7-50, 7-54, 7-57, 7-60, 7-61
- waste receiver facility (WRF), 2-15, 2-21, 2-71, 2-75, 2-79, 2-83, 2-87, 2-91, 2-99, 2-103, 2-129, 4-48, 4-114, 4-119, 4-121
- Waste Receiving and Processing Facility (WRAP), 1-32-1-35, 2-53, 2-54, 2-56-2-58, 2-114, 2-115, 2-117, 2-120, 2-122, 2-136, 2-137, 2-142, 2-193, 2-194, 3-23, 3-25, 3-27, 3-112, 3-113, 3-115, 3-177, 4-217, 4-219, 4-352, 4-353, 4-356, 4-359, 4-362, 4-363, 4-367, 4-376, 4-378, 4-384, 4-386, 4-387, 4-388, 4-391, 4-392, 4-396, 4-398, 4-419, 4-420, 4-422, 4-423, 4-444, 5-396, 7-46, 7-48, 7-50, 7-60-7-62, 8-29
- waste stream, 1-6, 1-8, 1-16, 1-24-1-29, 1-40, 2-3, 2-4, 2-28, 2-30, 2-31, 2-35, 2-66, 2-69, 2-72, 2-73, 2-76, 2-77, 2-79, 2-81, 2-83, 2-85, 2-88, 2-89, 2-92, 2-93, 2-97, 2-99-2-101, 2-103, 2-115, 2-126, 2-132, 2-133, 2-140, 2-152, 2-296, 2-297, 2-308, 3-44, 3-51, 3-169, 4-76, 4-78, 4-212, 4-214, 4-215, 4-225, 4-228, 4-231, 4-234, 4-237, 4-240, 4-241, 4-251, 4-422, 4-446, 7-11, 7-15, 7-16, 7-22, 7-37, 8-11, 8-15, 8-18
- waste transfer, 1-5, 1-12, 2-5, 2-20, 2-21, 2-33, 2-38, 2-59, *see also* waste management
- transfer line, 1-12, 2-20, 2-21, 3-73, 4-3, 4-81-4-84, 4-158, 4-159, 4-161, 4-162, 4-164-4-167, 4-169, 4-170, 4-172-4-175, 4-179-4-182, 8-18
- underground transfer line, 2-20, 2-21, 2-69, 2-97, 3-73, 4-3, 4-7, 4-81-4-97
- waste transfer system, 2-21, 2-33
- Waste Treatment Plant (WTP), 1-6-1-8, 1-12, 1-13, 1-16, 1-18, 1-19, 1-23-1-29, 1-31, 1-38, 1-48, 2-2, 2-4, 2-9, 2-11, 2-12, 2-17, 2-20, 2-22-2-32, 2-35, 2-37, 2-46, 2-54, 2-57-2-66, 2-69, 2-70, 2-72-2-74, 2-76-2-86, 2-88-2-94, 2-96, 2-98-2-103, 2-105, 2-110-2-112, 2-114, 2-124, 2-125, 2-127-2-136, 2-140, 2-142-2-144, 2-147, 2-148, 2-150, 2-152, 2-156-2-169, 2-285-2-289, 2-295, 2-300-2-304, 2-308, 2-311, 3-4, 3-14-3-17, 3-19, 3-24-3-26, 3-34, 3-36, 3-63, 3-73, 3-77, 3-84, 3-86, 3-93, 3-94, 3-96, 3-98, 3-111, 3-179, 3-180, 3-183, 3-184, 4-1, 4-3, 4-6-4-12, 4-14, 4-15, 4-17, 4-19-4-32, 4-38-4-44, 4-46-4-51, 4-54-4-74, 4-77, 4-80-4-85, 4-87-4-89, 4-91, 4-95-4-100, 4-106-4-108, 4-110, 4-112-4-117, 4-119, 4-121, 4-122, 4-124, 4-127-4-185, 4-187-4-192, 4-197-4-199, 4-201-4-204, 4-212-4-215, 4-219-4-230, 4-232, 4-233, 4-235, 4-236, 4-238, 4-239, 4-241-4-243, 4-246-4-248, 4-250, 4-251, 4-254-4-256, 4-347, 4-351, 4-426, 4-449, 4-451, 5-2, 5-35, 5-68, 5-69, 5-102-5-105, 5-139, 5-310, 5-317, 5-323, 5-330, 5-365, 5-366, 5-367, 5-372, 5-1168, 6-17, 6-40, 6-164, 7-1, 7-4-7-12, 7-14, 7-16,

- 7-18, 7-19, 7-22–7-24, 7-27–7-33, 7-35, 7-36, 7-39, 7-40, 7-56, 7-60, 7-63, 7-65, 8-10, 8-12, 8-18, 8-28, 8-29
- WTP facilities, 2-143, 2-287, 3-96, 4-24, 4-182
- WTP melter, 2-31, 2-125, 2-152, 4-215, 4-219, 4-220, 4-222, 4-224, 4-227, 4-230, 4-233, 4-236, 4-239, 4-242, 4-243, 4-246, 4-247, 4-250, 7-4, 7-33, 8-18, 8-29
- WTP operation, 2-30, 2-74, 2-78, 2-82, 2-86, 2-91, 2-143, 2-144, 2-147, 2-150, 2-287, 3-15, 3-17, 4-20, 4-25, 4-29, 4-30–4-32, 4-38, 4-40–4-42, 4-46, 4-112, 4-124, 4-127, 6-164, 7-4, 7-9, 7-22, 7-24, 7-29, 7-30, 7-31, 7-33, 7-65
- WTP pretreatment, 1-25–1-29, 2-28, 2-29, 2-66, 2-69, 2-73, 2-76, 2-77, 2-81, 2-85, 2-88, 2-89, 2-92, 2-94, 2-98, 2-101, 2-131–2-133, 2-289, 5-69, 7-22
- WTP vitrification, 1-19, 2-66, 2-69, 2-70, 2-73, 2-77, 2-81, 2-85, 2-89, 2-94, 2-98, 2-102, 2-124, 7-63
- waste volume, 1-26, 1-27, 1-42, 2-15, 2-27, 2-30, 2-56, 2-66, 2-69, 2-73, 2-77, 2-81, 2-85, 2-87, 2-89, 2-93–2-95, 2-97, 2-99, 2-101, 2-133, 2-193, 2-203, 2-300, 2-304, 3-111, 3-113, 3-171, 4-212, 4-213, 4-219, 4-221, 4-223, 4-225, 4-226, 4-228, 4-229, 4-231, 4-232, 4-234, 4-235, 4-237, 4-238, 4-240, 4-241, 4-244, 4-245, 4-248, 4-249, 4-251, 4-343, 4-344, 4-347, 4-348, 4-352, 4-353, 4-419, 4-420, 4-422, 4-423, 4-447, 5-35, 5-69, 5-396, 6-32, 6-34, 6-36, 7-5, 7-13, 7-22
- cumulative waste volume, 6-34
- water, *see also* aquatic resource, groundwater, surface water
- aquifer, 2-126, 2-142, 2-203, 2-230, 2-237, 3-38, 3-49, 3-51, 3-52, 3-53, 3-56, 3-57, 3-140, 3-143, 3-144, 3-146, 5-2, 5-4, 5-29, 5-61, 5-96, 5-130, 5-165, 5-222, 5-287, 5-384, 5-410, 5-445, 5-458, 5-484, 5-512, 5-538, 5-581, 5-692, 5-748, 5-778, 5-809, 5-930, 5-956, 5-984, 5-1015, 5-1046, 5-1076, 5-1170, 5-1191, 5-1198, 5-1221, 5-1228, 5-1229, 5-1253, 6-43, 6-70, 6-78, 6-109, 6-117, 6-148, 7-13
- aquitard, 3-38
- water quality, 2-128, 2-136, 2-146, 2-190, 2-203, 2-230, 2-237, 2-285, 2-295, 3-42, 3-43, 3-53, 3-140, 3-146, 4-70–4-74, 4-76–4-78, 4-380–4-382, 7-13, 8-10
- water resource, 2-146, 2-174, 2-181, 2-189, 3-1, 3-138, 4-65–4-69, 4-71–4-80, 4-285–4-291, 4-380–4-384, 4-434, 6-3, 6-5, 6-18, 6-19, 7-5, 7-6, 7-9, 7-24, 7-25, 7-64, 8-10
- water table elevation, 3-44, 3-51, 3-56
- water table, 2-293, 3-39, 3-42, 3-44, 3-49, 3-51, 3-52, 3-56, 3-57, 3-143, 3-144, 3-146, 4-60, 4-62, 4-68, 4-74, 4-77, 4-381, 5-7, 5-38, 5-73, 5-109, 5-143, 5-1198, 5-1228
- water use, 2-143, 2-173, 2-187, 3-17, 3-52, 3-126, 3-146, 4-20–4-24, 4-26–4-28, 4-67–4-73, 4-75, 4-76, 4-78, 4-79, 4-265, 4-267, 4-285, 4-287–4-290, 4-357, 4-359–4-361, 4-380–4-384, 4-431, 5-303, 6-18, 6-19, 7-6, 8-10
- wetland, 3-67, 3-140, 3-149
- White Bluffs Road, 3-75–3-77, 3-80, 4-95–4-104, 6-23
- wind rose, 3-20, 3-127
- WIPP SEIS-II, 1-3, 1-37, 2-31, 2-115, 2-152, 4-215, 4-218
- WM PEIS, 1-3, 1-36, 1-37, 2-126, 3-173, 6-32, 6-33
- worker, 2-17, 2-34, 2-127, 2-141, 2-149, 2-155, 2-175, 2-178, 2-191, 2-193, 2-194, 2-288, 2-290, 2-292, 2-293, 3-89, 3-91, 3-93, 3-94, 3-109, 3-158–3-160, 3-186, 4-55, 4-60, 4-62, 4-105, 4-129–4-141, 4-143–4-145, 4-147–4-149, 4-151–4-156, 4-159, 4-162, 4-163, 4-167, 4-168, 4-171, 4-175, 4-176, 4-178, 4-181, 4-184, 4-186, 4-188–4-192, 4-254, 4-308, 4-309, 4-311–4-316, 4-320–4-323, 4-327, 4-396–4-403, 4-405, 4-407, 4-409, 4-412, 4-423, 4-439, 4-441, 4-443, 4-447, 6-26, 6-29, 6-30, 6-32–6-34, 6-40, 7-4, 7-5, 7-20, 7-54, 8-23, 8-24, *see also* indirect job, workforce
- full-time equivalent (FTE), 2-147, 2-169, 2-185, 2-202, 4-105, 4-107–4-111, 4-113, 4-115–4-117, 4-120, 4-122, 4-125, 4-127, 4-129, 4-130, 4-132, 4-134–4-139, 4-141, 4-143–4-145, 4-147–4-149, 4-151–4-155, 4-303, 4-305, 4-308, 4-309, 4-392, 4-396–4-401, 4-438, 4-439, 4-441, 6-25, 7-20, 7-33, 7-41, 7-46, 7-51, 7-53
- involved worker, 2-149, 2-176, 2-192, 3-160, 4-129, 4-131, 4-132, 4-134, 4-136, 4-137, 4-140, 4-141, 4-143, 4-145, 4-148, 4-149, 4-152–4-156, 4-308, 4-312, 4-315, 4-396, 4-402
- noninvolved worker, 2-149, 2-175, 2-176, 2-192, 4-35, 4-38–4-49, 4-129, 4-130, 4-132–4-134, 4-136, 4-138–4-143, 4-145, 4-148, 4-149, 4-152, 4-153, 4-155–4-157, 4-159–4-163, 4-165, 4-167, 4-168, 4-171, 4-173, 4-175, 4-176, 4-178, 4-180–4-183, 4-272, 4-274, 4-275, 4-277, 4-308, 4-309, 4-311–4-313, 4-315–4-323, 4-325, 4-365, 4-367, 4-370, 4-371, 4-396, 4-398, 4-402, 4-403, 4-405–4-408
- worker impact, 2-141, 4-156, 4-311, 4-314, 4-316, 4-402
- worker safety and health, 2-141, 8-23
- workforce, 1-20, 1-21, 2-147, 2-163, 2-174, 2-183, 2-191, 2-199, 2-287, 2-290, 2-292, 3-1, 4-17, 4-68, 4-105–4-111, 4-113, 4-115–4-127, 4-287, 4-303–4-306, 4-381, 4-392–4-395, 4-437, 4-438, 6-25, 7-32, 7-40, *see also* indirect job, worker

X

x-ray, 2-53, 3-88, 3-112, 3-157

Y

Yakama Nation, *see* American Indian

Yucca Mountain EIS, 1-38

Yucca Mountain, 1-14, 1-38, 1-39, 1-46, 1-51, 2-307, 8-17

Z

zircaloy, 2-45

zooplankton, 3-68