MATERIALS LICENSE Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and the applicable parts of Title 10, Code of Federal Regulations, Chapter I, Parts 19, 20, 30, 31, 32, 33, 34, 35, 36, 39, 40, 51, 70, and 71, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.			
	Licensee		
Swe	ecott Uranium Company etwater Project Box 1500	3. License Number SUA-1350, Amendment 31	
	Box 1500	4. Expiration Date November 10, 2014	
Rawli	ins, Wyoming 82301-1500	5. Docket No. 40-8584	
	6	Reference No.	
 6. Byproduct Source, and/or Special Nuclear Material Natural Uranium and/or Natural Uranium Byproducts 7. Chemical and/or Physical Form 8. Maximum amount that Licensee Under This License Unlimited 			
Sectior	n 9: Administrative Conditions		
9.1 T	The authorized place of use shall be the licensee's Township 24 North, Range 93W, Sweetwater Court		
9.2 All written notices and reports to the Nuclear Regulatory Commission (NRC) required under this license, with the exception of incident and event notifications, shall be sent to the following address: ATTN: Document Control Desk, c/o Deputy Director, Decommissioning and Uranium Recovery Licensing Directorate, Division of Waste Management and Environmental Protection, Office of Federal and State Materials and Environmental Management Programs, Washington, DC 20555, Mail Stop T-8 F5, or by express delivery to 11545 Rockville Pike, Rockville, Maryland 20852-2738.			
4	Incident and event notifications, which require telephone notification under 10 CFR 20.2202 and 10 CFR 40.60, shall be made to the NRC Operations Center at (301) 816-5100.		
[/	[Applicable Amendments: 16, 18, 25, 26]		
9.3 C	Changes, Tests and Experiments		
(;	 The licensee may, without obtaining a license conditions specified in (b) of this condition: 	amendment pursuant to §40.44, and subject to	
	i. make changes in the facility as described	in the license application (as updated),	

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	ii	make changes in the procedures as described in the	e license application (as updated), and
	iii	conduct test or experiments not described in the lice	ense application (as updated).
(b)		e licensee shall obtain a license amendment pursuar ange, test or experiment if the change, test, or experi	· · · · · · ·
	i	Result in any appreciable increase in the frequency evaluated in the license application (as updated);	of occurrence of an accident previously
	ii	Result in any appreciable increase in the likelihood system, or component (SSC) important to safety preupdated);	
	iii	Result in any appreciable increase in the conseque license application (as updated);	nces of an accident previously evaluated in the
	iv	Result in any appreciable increase in the conseque evaluated in the license application (as updated);	nces of a malfunction of an SSC previously
	v	Create a possibility for an accident of a different typ application (as updated);	e than any previously evaluated in the license
	vi	Create a possibility for a malfunction of an SSC with the license application (as updated);	n a different result than previously evaluated in
	vii	Result in a departure from the method of evaluation updated) used in establishing the Final Safety Evalu Assessment (EA) or Technical Evaluation Reports (license amendments;	uation Report (FSER) or the Environmental
	viii	For purposes of this paragraph as applied to this lic referenced in a staff SER, TER, EA, or Environmen and amendments thereof.	
(c)	coi de: Tł	ditionally, the licensee must obtain a license amendr nsistent with the NRC conclusions, or the basis of, or signs, or design configurations analyzed and selecte is would include all supplements and amendments, his license.	analysis leading to, the conclusions of actions, d in the site or facility SER, TER, and EIS or EA.
d)	En me	e licensee's determinations concerning (b) and (c) of vironmental Review Panel (SERP). The SERP shall mber of the SERP shall have expertise in managem ponsible for financial approval for changes; one mer	consist of a minimum of three individuals. One ent (e.g., Plant Manager) and shall be

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	construction and shall have responsibility for implement shall be the radiation safety officer (RSO) or equivalent conform to radiation safety and environmental requirem the SERP as appropriate, to address technical aspects hydrology, specific earth sciences, and other technical members, other than the three above-specified individu	, with the responsibility of assuring changes ents. Additional members may be included in such as groundwater, hydrology, surface-water disciplines. Temporary members or permanent
e)	The licensee shall maintain records of any changes mattermination. These records shall include written safety SERP that provide the basis for determining changes a licensee shall furnish, in an annual report to the NRC, a experiments, including a summary of the safety and emplicensee shall annually submit to the NRC changed page for the area changed, e.g., a bold line vertically drawn in changed, and a page change identification (date of changes made under this condition.	and environmental evaluations made by the re in compliance with (b) of this condition. The description of such changes, test, or vironmental evaluation of each. In addition, the les, which shall include both a change indicator in the margin adjacent to the portion actually nge or change number or both), to the
	[Applicable Amendment: 18]	
9.4	The licensee is hereby authorized to possess byproduct and other uranium byproduct waste generated by the license.	
	The licensee is authorized to operate an ion exchange submittals dated September 27, 1989, and October 18, from the IX plant shall be placed in the tailings impound	1991. Contaminated liquid and solid wastes
	The licensee is not authorized to produce any other ura inspection has been completed and any safety issues rethat operating procedures and approved radiation safet place, and that pre-operational testing is complete.	esolved. The inspection should confirm, in part,
	For monitoring purposes, the standby mode of operatio longer period when no yellowcake is produced by the m (90) days prior to any planned resumption of uranium m	nill. The NRC shall be notified at least ninety
9.5	The licensee shall conduct operations in accordance will contained in Sections 5.2, 5.3, 5.4, and 6.0 of the origin 1978; in Sections 2.0, 3.0, and 4.0 of the renewal applied submittals dated April 3, 1983, and January 17, 1985; a renewal application submitted September 18, 1997, with July 1, and July 20,1998, and March 25, 1999; and the except where superseded by license conditions below.	al license application as revised, dated August, cation dated March 1984, as supplemented by and the Final Design Volume VII of the license h page changes submitted April 13, June 10,

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	Whenever	the word "will" is used in the above reference	ed submittals, it shall denote a requirement.
9.6	activities in operational available fo Additionally and enviror	perating procedures (SOPs) shall be establis volving radioactive materials that are handled activities shall enumerate pertinent radiation or the pre-operational inspection. /, written procedures shall be established for mental monitoring, bioassay analyses, and i n procedure shall be kept in the mill area to v	d, processed, or stored. These SOPs for a safety practices to be followed and will be non-operational activities to include in-plant instrument calibrations. An up-to-date copy of
	by the RSC	or both operational and non-operational active before implementation and whenever a cha ation protection principles are being applied. d review of all existing operating procedures	In addition, the RSO shall perform a
9.7	Appendix A for decomm approved ta restoration, reclamation revision to t covered in	A, Criteria 9 and 10, adequate to cover the es nissioning and decontamination of the mill an ailings or waste disposal areas, reclamation of , and the long-term surveillance fee. With su n/decommissioning plan, the licensee shall su	of approved evaporation ponds, groundwater bmittal of a revised ubmit, for NRC review and approval, a proposed I costs in the proposed plan exceed the amount
	NRC-appro associated	proved reclamation plan referenced in Licens oved surety amount (adjusted for inflation) for with resumption of mill operation (e.g., tailing hannels) before commencement of construct	gs impoundment, evaporation ponds, and
	submitted to approved s thirty (30) d	o the NRC at least three (3) months prior to t urety arrangement. If the NRC has not appre- lays prior to the expiration date of the existing surety arrangement. The revised surety arr	R 40, Appendix A, Criteria 9 and 10, shall be the anniversary date (October 30) of the oved a proposed revision to the surety coverage g surety arrangement, the licensee shall extend nount will be in effect within three (3) months of
	an amount 9 and 10, fo		ance bond) shall be continuously maintained in complying with 10 CFR 40, Appendix A, Criteria ting facility, until a replacement amount is

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9.8	The licensee shall have an archeological survey performusurveyed areas. Such surveys shall be submitted to Office (SHPO) for review and approval. No such disturn has been granted by the NRC and SHPO. In addition, cultural deposits unearthed during the disturbance of labeen granted by the NRC and SHPO.	the NRC and the State Historic Preservation bance shall occur until authorization to proceed all work in the immediate vicinity of any buried	
9.9	The licensee is hereby exempted from the requirement areas within the mill buildings, provided that all entranc in accordance with Section 20.1902(e) and with the wo Radioactive Material."	es to the mill buildings are conspicuously posted	
9.10	Decommissioning of the facility shall be performed as presented in the Final Design, Volume VI, Part 2 - "Mill Decommissioning Addendum to the Existing Impoundment Reclamation Plan," submitted May 28, 1998, as supplemented by the response to comments submitted February 3, 1999, and the catchment basin remediation plan dated May 12, 2004, as revised July 22, 2004, December 15, 2004, January 18, 2005, and October 3, 2006. The verification results of this remediation are to be submitted to NRC for approval, as soon as reasonably possible. The catchment basin verification report and NRC's approval letter shall be referenced in the Final Status Survey Report. Residual contamination remaining under structural foundations after the catchment basin remediation shall be removed at the time the structures are decommissioned. The NRC shall be notified and detailed SOPs for decommissioning (land and buildings) shall be available for review at least three (3) months before decommissioning begins.		
	able Amendments: 21, 25]		
Sectio 10.1	n 10: Operational Controls, Limits, and Restriction The mill production per calendar year shall not exceed in the Revised Environmental Report, dated August 199	4,100,000 pounds of yellowcake, as referenced	
10.2	All liquid effluents from mill process buildings, with the to the mill circuit or discharged to the tailings impoundn		
10.3	The licensee shall construct and operate the proposed ponds, and tailings disposal system in compliance with application submitted by cover dated June 11, July 23, changes submitted April 13, June 10, July 1, and July 2	Volumes III, IV, and VII of the Final Design and September 18, 1997, including page	
	The licensee is currently authorized to construct up to a impoundment. An additional two evaporation ponds an described in the above documents, may be constructed 2) submittal of data confirming the proposed design; a on the NRC-approved cost estimate for reclaiming the above the second s	nd an additional five impoundments, as d after: 1) notification of NRC; nd 3) an increase in the surety amount, based	

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10.4		l embankment monitoring program shall be su months prior to placing tailings effluent.	Ibmitted for NRC approval at least
10.5	ponds sha license re	all be reclaimed in accordance with the Final I newal application submitted August 1, 1997, submitted June 10, 1998, and supplements su	August 20, 1997, and May 28, 1998, with page
10.6	impoundn The licens Crow Butt licensed b	nent, except byproduct material in the form of see may add a maximum of 2,800 cubic yards te Resources, Inc. in the course of operating i	ts Crow Butte In Situ Leach (ISL) facility that is the site's IX plant. Disposal of the Crow Butte
	During an and docur	y period of mill standby at least a weekly insp mented.	ection of the tailings area shall be performed
[Applic	able Ameno	dment: 22]	Son State S
Sectio	on 11: Mo	onitoring and Recordkeeping Requirement	s S
11.1	reports or shall be d		
11.2	public pot		e (private residence, grazing areas, private and dential structures and uses) in the area within lary.
11.3	ground-wa reference Detection (approved	d in "Addendum to the Revised Environmenta Standards," January 1996, as revised by pag	ium, and combined radium-226/228 to the levels I Report, Background Ground Water Quality and le changes January 8, 1998 catchment basin ground-water corrective action
	with back mg/L, cad	nd-water protection standards at point of comp ground being defined in the above Addendum mium = 0.01 mg/L, chromium = 0.05 mg/L, le radium-226/228 = 5.8 pCi/L, selenium = 0.01	are: arsenic = 0.05 mg/L, beryllium = 0.01

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= 36.0 pCi/L, and gross alpha = 15.0 pCi/L, manganese = 0.2 mg/L, and iron = 0.6 mg/L.



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	the CAP. and for the VII, subm provided i	POC, monitoring, and pump-back wells shall e parameters provided in Table 5-1 (for existin itted (page change) June 21, 1999. Reporting in Table 5-11 of the Final Design Volume VII, s	ig impoundment) of the Final Design Volume limits for sampled constituents shall be as submitted April 13, 1998.
	104, 111, volatile or standards 1,1-dichlo 1 mg/L, 1, trimethylb	112, 113, and 115 will be sampled quarterly for ganic compounds, in addition to the above constants to be used to assess data from these wells an proethene = 0.007 mg/L , DRO = 10 mg/L , GRC, 1,1-trichloroethane = 0.20 mg/L , 1,2,4-trimeth	re as follows: 1,1-dichloroethane = 3.0 mg/L,) = 10 mg/L, naphthalene = 1.5 mg/L, toluene =
	[Applicabl	e Amendments: 17, 21, 22]	23 0
11.4	monitoring 10 CFR 4 Backgrou submittals in accorda		vaporation ponds to ensure compliance with dum to the Revised Environmental Report, ards," January 1996, as revised by the I conduct an environmental monitoring program toring, and in accordance with Table 5-2 of the
	[Applicabl	le Amendment: 17]	
11.5	accordance	y period of mill standby, the licensee shall conce with on-file SOPs for environmental monitor ign Volume VII, submitted (page change) June	ring, and in accordance with Table 5-1 of the
	[Applicabl	e Amendments: 17, 21]	
Sectio	n 12: Re	eporting Requirements	
12.1		I report of the review of all existing operating p Il be prepared and retained on site.	procedures, required to be performed by the
12.2	Spills, Po	nd Leaks, Excursions, and Incident/Event Rep	orting
	11e.(2) by		cumentation on unplanned release of source or ocumented information shall include, but not be de released, radiological survey results, soil

limited to: date, volume, total activity of each radionuclide released, radiological survey results, soil sample results (if taken), corrective actions, results of post remediation surveys (if taken), and a map

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	showing the spill location and the impacted area.	
	The licensee shall have procedures which will evaluate against 10 CFR 20, Subpart "M," and 10 CFR 40.60 re report to the NRC Operations Center as required.	
	If the licensee is required to report any spills, pond lear material, and process chemicals that may have an imp incidents/events to State or Federal Agencies, a notific Project Manager (PM) by telephone or electronic mail notification shall be followed, within thirty (30) days of NRC Headquarters PM as per License Condition 9.2, of leak, excursion, or incident/event, corrective actions ta	act on the environment, or any other cation shall be made to the NRC Headquarters (e-mail) within 48 hours of the event. This the notification, by submittal of a written report to detailing the conditions leading to the spill, pond
	[Applicable Amendment: 18]	1350
12.3	An annual report will be submitted to the NRC that inc experiments approved by the SERP; (2) page changes SERP; (3) a report of the annual land use survey indic described in the previous report; (4) a ground-water C, attaining the ground-water protection standards includ hazardous constituents and estimates of the time need monitoring report for the year; and (6) the ALARA audi	to the approved license application made by the ating any differences in land use from that AP review, describing the progress toward ing the areal extent and concentration of led to obtain compliance; (5) the ground-water
12.4	A completion report(s), including as-built drawings, ver the site has been performed according to the NRC-app months of completion of the work. The report(s) shall assurance and control testing to demonstrate that the	proved plans shall be provided within six (6) also include summaries of results of the quality
	****	*
	FOR THE	NUCLEAR REGULATORY COMMISSION
		/RA/
Date:	Decommi Licensin Division o and Env Office of I	ersinko, Deputy Director ssioning and Uranium Recovery g Directorate f Waste Management ronmental Protection Federal and State Materials ronmental Management Programs