URF0:CDMC Docket No. 40-8857 SUA-1511, Amendment No. 36 04008857520E 04008857530E 04008857570E

Power Resources, Inc. Highland Uranium Project ATTN: Paul R. Hildenbrand, Manager of Environmental and Regulatory Affairs P.O. Box 1210 Glenrock, Wyoming 82637

Dear Mr. Hildenbrand:

By letter dated March 20, 1991, Power Resources, Inc. (PRI) submitted a request to amend Source Material License SUA-1511. Approval of this amendment, referred to as the West Highland Amendment (WHA), authorizes PRI to expand in situ leach uranium mining at the Highland Uranium Project (HUP). The NRC received no comments in response to the draft Finding of No Significant Impact prepared for the WHA and published October 3, 1991; the staff concludes that the revised Environmental Assessment (EA) of the proposed expansion of operations at HUP addressed all appropriate environmental concerns. A final Finding of No Significant Impact has been published in the Federal Register.

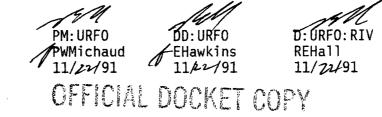
Concurrent with the EA for the WHA, the HUP Safety Evaluation Report (SER) has been appropriately revised and issued. In addition, the NRC has reviewed and approved PRI's updated reclamation cost estimate of \$4,820,900. This surety meets the requirements of Criterion 9 of Appendix A to 10 CFR 40 and adequately covers all concerns related to expansion of mining operations at the HUP.

In conjunction with approval of the WHA, the NRC is approving PRI's request to amend SUA-1511 to authorize mining in the area referred to as the E-Field, comprising parts of Sections 15, 2, 23, T36N, and R73W. Authorization to begin mining is based on review and approval of baseline water quality data and upper control limits for the proposed E-Field submitted by PRI under cover letters dated September 5 and September 13, 1991.

Therefore, based on the actions referenced above and pursuant to Title 10, Code of Federal Regulations, Part 40, and in accordance with your submittal dated March 20, 1991, Source Material License SUA-1511 is being revised by amending License Condition Nos. 10, 11, 15, 20, 21, 22, 24, 26, 27, 32, 33, 34, 35, 36, 38, 40, 41, 44, 46, 47, 48, 51, 52, 54, and 55, and by incorporating new License Condition Nos. 56, 57, and 58 to read as follows:

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- 10. For use in accordance with statements, representations, and conditions contained in Volume 6, Sections 3 and 4, of the licensee's revised application dated March 20, 1991, and the licensee's submittals dated June 12, 1987, and March 22, 1988, unless superseded by the following license conditions. [Applicable Amendments: 2, 7, 17, 18, 36]
- 11. The licensee is hereby exempted from the requirements of Section 20.203(e)(2) of 10 CFR 20 for areas within the facility, provided that all entrances to the facility are conspicuously posted in accordance with Section 20.203(e)(2) and with the words, "Any area within this facility may contain radioactive material." The licensee shall also maintain the well-field area as a restricted area and implement postings notifying people of the hazard onsite. [Applicable Amendments: 36]
- 15. The licensee shall maintain effluent control systems as specified in Section 9.1.4 of the licensee's revised application dated March 20, 1991, with the following additions:
 - A. Operations shall be immediately suspended in the dry/pack area of the facility if any of the emission control equipment for the yellowcake drying or packaging areas is not operating within specifications for design performance.
 - B. The licensee shall, during all periods of yellowcake drying operations, assure that the scrubber is operating within the manufacturer's recommended ranges for water flow and air pressure differential necessary to achieve design performance. This shall be accomplished by either (1) performing and documenting checks of water flow and air pressure differential approximately every 4 hours during operation, or (2) installing instrumentation which will signal an audible alarm if either water flow or air pressure differential fall below the manufacturer's recommended levels. If an audible alarm is used, its operation shall be checked and documented daily.
 - C. Air pressure differential gauges for other emission control equipment shall be read and the readings documented once per shift during operations.

[Applicable Amendments: 36]

20. In addition to the inspection and audit program described in Section 9.15 of the revised application dated March 20, 1991, the Site RSO or the designee shall document a daily walkthrough of the facility to determine if radiation control practices are being implemented. [Applicable Amendments: 36]

- 21. The licensee shall submit to the NRC, Uranium Recovery Field Office, a copy of the ALARA report as specified in Section 9.15 of the revised application dated March 20, 1991, within 2 months of the end of the reporting period. The report shall also include a summary of the daily walkthrough inspections. [Applicable Amendments: 36]
- 22. The licensee shall implement the in-plant air monitoring program, surface contamination and employee exposure programs as specified in Section 9 of the March 20, 1991, revised application Operations Plan, with the additional requirement that continuous air sampling representative of the workers' breathing zone shall be conducted within the inner barrelling enclosure during drying operations. The results of this sampling shall be used in determining the internal exposure of workers involved in yellowcake barrelling activities. Any changes in radon daughter monitoring frequency shall require NRC review and approval in the form of a license amendment. [Applicable Amendments: 5, 36]
- 24. In addition to the bioassay program discussed in Section 9.5 of the application, the licensee shall comply with the following:
 - A. Anytime an action level of 15 ug/l uranium for urinalysis or 9 nCi of natural uranium for in vivo measurement is reached or exceeded, the licensee shall document the corrective actions which have been performed in accordance with Revision 1 of Regulatory Guide 8.22, dated January 1987. This documentation shall be submitted to the NRC, Uranium Recovery Field Office, as part of the semiannual report required by 10 CFR 40.65.
 - B. Anytime an action level of 35 ug/l for two consecutive specimens or 130 ug/l uranium for one specimen for urinalysis or 16 nCi uranium for an in vivo measurement is reached or exceeded, the licensee shall document the corrective actions which have been performed in accordance with Revision 1 of Regulatory Guide 8.22. This documentation shall be submitted to the NRC, Uranium Recovery Field Office, within thirty (30) days of exceeding the action level.
 - C. All in vivo measurements shall be performed in accordance with the recommendations contained in Revision 1 of Regulatory Guide 8.22.

[Applicable Amendments: 36]

- 26. DELETED BY Amendment No. 36.
- 27. Any changes in the organization or staff responsibilities as described in the licensee's June 23, 1989, and February 6, 1991, submittals shall require prior approval by the NRC in the form of a

license amendment. Additionally, any change in staff members reporting to and including the Corporate RSO shall require prior approval by the NRC. [Applicable Amendments: 18, 26, 28, 29, 36]

- 32. The total satellite facilities' throughput shall not exceed a flow rate of 7500 gallons per minute. [Applicable Amendments: 17, 36]
- 33. Any significant changes in the process circuit as illustrated and described in Figure 2 of the Operations Plan of the revised license application dated March 20, 1991, shall require approval by the NRC in the form of a license amendment. [Applicable Amendments: 36]
- 34. The licensee shall sample and analyze the irrigation fluid water quality at the irrigation sprinkler discharge on at least a monthly basis during times of irrigation. The sample shall consist of daily samples composited over the month. The following parameters shall be determined: pH, conductivity, TDS, Na, Ca, Mg, K, Cl, SO₄, HCO₃, As, B, Cr, Cu, Ni, Se, Zn, U₃O₈, and Radium-226. The irrigation fluid shall be sampled and analyzed on a monthly basis for Ra-226 at the East Radium Pond Discharge. The results of these analyses shall be included with the semiannual environmental monitoring report. [Applicable Amendments: 36]
- 35. DELETED by Amendment No. 36.
- 36. Two months prior to conducting any mining activities for a new mining unit, the licensee shall submit hydrologic test results depicting hydrologic properties controlling ground-water flow, baseline water quality data, and proposed upper control limits (UCLs) for that unit to the NRC for review and approval. Approval shall be in the form of a license amendment to allow lixiviant injection and other mining processes to begin. [Applicable Amendments: 30, 36]
- 38. A. Baseline water quality sampling shall conform with the program described in the submittal dated October 7, 1987, such that baseline water quality for all new mining units shall be submitted 2 months prior to lixiviant injection. The data shall, at a minimum, consist of:
 - One sample analyzed for the State of Wyoming, Department of Environmental Quality, Guideline 8, Appendix A, parameters per individual well.
 - ^o Two separate samples analyzed for bicarbonate, chloride, electrical conductivity, radium, selenium, total dissolved solids, uranium, iron, pH, arsenic and fluoride, per individual well.

B. DELETED by Amendment No. 24.

[Applicable Amendments: 2, 4, 6, 9, 12, 14, 16, 17, 22, 24, 36]

- 41. The licensee shall utilize a carbon dioxide solution with an oxygen or hydrogen peroxide. Any variation from this combination shall require a license amendment. [Applicable Amendments: 12, 36]
- 44. DELETED by Amendment No. 36.
- 46. The licensee shall maintain an NRC-approved financial surety arrangement, consistent with 10 CFR 40, Appendix A, Criterion 9, adequate to cover the estimated costs, if accomplished by a third party, for completion of the NRC-approved site closure plan including; above ground decommissioning and decontamination, the cost of offsite disposal of radioactive solid process or evaporation pond residues, and ground-water restoration as warranted. Within three (3) months of NRC approval of a revised closure plan and cost estimate, the licensee shall submit, for NRC review and approval, a proposed revision to the financial surety arrangement if estimated costs in the newly approved site closure plan exceed the amount covered in the existing financial surety. The revised surety shall then be in effect within 3 months of written NRC approval.

Annual updates to the surety amount, required by 10 CFR 40, Appendix A, Criterion 9, shall be provided to the NRC at least 3 months prior to the anniversary date which is designated as August 31 of each year. If the NRC has not approved a proposed revision 30 days prior to the expiration date of the existing surety arrangement, the licensee shall extend the existing arrangement, prior to expiration, for 1 year. Along with each proposed revision or annual update, the licensee shall submit supporting documentation showing a breakdown of the costs and the basis for the cost estimates with adjustments for inflation, maintenance of a minimum 15 percent contingency, changes in engineering plans, activities performed and any other conditions affecting estimated costs for site closure. The licensee shall also provide the NRC with copies of surety related correspondence with the State, a copy of the State's surety review and the final approved surety arrangement. The licensee must also ensure that the surety, where authorized to be held by the State, expressly identifies the NRC related portion of the surety and covers the above ground decommissioning and decontamination, the cost of offsite disposal, soil and water sample analyses and ground-water restoration associated with the site. The basis for the cost estimate is the NRC approved site closure plan or the NRC approved revisions to the plan. Reclamation/decommissioning plan, cost estimates and annual updates should follow the outline in the attachment to SUA-1511 entitled, "Recommended Outline for Site Specific Reclamation and Stabilization Cost Estimates."

Power Resources' currently approved surety, Irrevocable Letter of Credit No. SF0870IM issued by National Westminster Bank PLC in favor of the State of Wyoming, shall be continuously maintained in an amount no less than \$4,820,900 for the purpose of complying with 10 CFR 40, Appendix A, Criterion 9, until a replacement is authorized by both the State and the NRC.

[Applicable Amendments: 18, 25, 27, 36]

- 47. DELETED by Amendment No. 36.
- 48. The licensee shall implement the effluent and environmental monitoring program specified in Sections 9.7 and 9.8 of the March 20, 1991, revised license application, the submittal dated March 16, 1989, Section 2 of the July 1986, Wastewater Land Disposal Application, and Section No. 7 of the April 1986, Wyoming Groundwater Pollution Control Permit for Subsurface Injection of Mineral Processing Waste. Additionally, the licensee shall implement an air particulate monitoring program external to the main processing facility in accordance with 10 CFR Part 20.

In addition to the effluent and environmental monitoring submittal in accordance with 10 CFR Section 40.65, the semiannual report shall include the following:

- Results of the ground-water monitoring program described in Section 8.2 of the revised license application dated March 20, 1991.
- Injection rates, recovery rates, and injection manifold pressures.
- Notwithstanding the stack sampling specified above, the licensee shall include the semiannual monitor data for the drying and packaging stacks.
- ^o Results of monthly irrigation fluid water quality sample analyses for pH, conductivity, TDS, Na, Ca, Mg, K, Cl, SO₄, HCO^2 , As, B, Cr, Cu, Ni, Se, Zn, U₃O₈, and Ra-226.
- ^o Monitoring data shall be reported in the format shown in the attachment to this license entitled, "Sample Format for Reporting Monitoring Data."

[Applicable Amendments: 36]

51. Any significant changes in the Highland Uranium Project schedule as described in Section 1.4 of the revised license application dated March 20, 1991, shall require approval by the NRC, Uranium Recovery Field Office. [Applicable Amendments: 17, 36]

52. The licensee is authorized to operate a satellite facility in their Section 14 area in accordance with submittals dated November 23, 1988; December 9, 1988; January 27, 1989; February 17, 1989; and March 7, 1989.

Additionally, the pipeline that transports waste water from the Section 14 area satellite facility to the Section 21 area satellite and treatment facilities will be monitored as follows:

- (1) Standpipes will be utilized at 1,000-foot intervals along the pipeline route to the buried interface for leak detection.
- (2) Standpipes will be monitored for leak detection and integrity on a monthly basis, and all observations and maintenance checks will be logged and recorded.
- (3) Pump rates, volumes and records will be logged on a daily frequency and recorded.

[Applicable Amendments: 17, 36]

- 54. The Radiation Safety Program staff including the Site RSO and RST shall have training and experience equivalent to the recommendations contained in NRC Regulatory Guide 8.31, with Site RSO training to include a biennial refresher course. Any person newly hired as an RST shall have all work reviewed and approved by the Site RSO as part of a comprehensive training program until appropriate course training is completed, but for at least six months from the date of appointment. [Applicable Amendments: 28, 35, 36]
- 55. DELETED by Amendment No. 36.
- 56. Before engaging in any activity not previously approved by the NRC, the licensee shall prepare and record an environmental evaluation of such activity. When the evaluation indicates that such activity may result in a significant adverse environmental impact that was not previously assessed or that is greater than that previously assessed, the licensee shall provide a written evaluation of such activities and obtain approval of the NRC in the form of a license amendment prior to initiation of said activity. [Applicable Amendments: 36]
- 57. Three months prior to construction of Satellite No. 3 and ancillary facilities, the licensee shall submit a request for a revision to operations for NRC approval in the form of a license amendment. The submittal shall include a diagram and description for all major facility process components. The submittal shall also include a facility radiological monitoring program. [Applicable Amendments: 36]

58. In the event that previously unknown cultural resources are discovered during construction, ground disturbing activities in that vicinity shall be halted and the U.S. Bureau of Land Management, Platte River Resource Area Manager (BLM-PRRA) notified immediately. Construction work may not resume until the cultural resource has been fully evaluated by a qualified archaeologist and any necessary mitigative measures carried out. In some cases, it may be necessary for a qualified archaeologist to monitor ground disturbing activities for some proposed actions.

Surface disturbance shall not occur within those Federally-administered surface areas which have not been examined at the Class III survey level until a Class III cultural resource inventory has been made and approved by the BLM-PRRA.

It is recommended that the privately owned areas within the proposed mine permit application area be resurveyed for cultural resources prior to implementing ground disturbing activities if the pertinent cultural resource inventory was conducted before 1980. Federal surface within the permit area that falls into this category shall be inventoried prior to disturbance.

All actions associated with the proposed development will be completed in compliance with the National Historic Preservation Act (as amended) and its implementing regulations (36CFR800), the Archaeological Resources Protection Act (as amended) and its implementing regulations (43CFR7). Further, guidelines such as the Secretary of the Interior's Standards and Guidelines for Archaeology and Historic Preservation, and the Bureau of Land Management 8100 manual series will be followed where appropriate.

[Applicable Amendments: 36]

All other conditions of the license shall remain the same. The license is being reissued to incorporate the above modifications and additions. The effect of this amendment is to authorize PRI to expand in situ leach uranium mining operations at the HUP and begin mining operations in the E-Field. Please call Cynthia Miller-Corbett of my staff should you have any questions concerning this matter.

Sincerely,

Original Signed By: R. E. HALL

Ramon E. Hall Director

Enclosure: Source Material License SUA-1511

cc: W. Kearney, PRI S. Morzenti, PRI J. Hough, RCPD, WY WDEQ (2)

bcc: LFMB PDR/DCS URF0 r/f LJCallan, RIV LLUR Branch, LLWM OB:IMNS:NMSS CMiller-Corbett 8857/520,530,570/CMC/91/11/14/M

-84)	U.S. NUCLEAR REGULATORY COMMISSION
	MATERIALS LICENSE
Code of neretofo source, s deliver o license s subject	t to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law $93-438$), and Title 10, f Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 40 and 70, and in reliance on statements and representations ore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any ons specified below.
	Licensee
Ι.	Power Resources Inc. [Applicable Amendments: 18, 19] SUA-1511, Amendment No. 36
2.	P.O. Box 1210 Glenrock, Wyoming 82637 4. Expiration date July 1, 1993
	5. Docket or Reference No. 40-8857
	oduct, source, and/or al nuclear material form 7. Chemical and/or physical form 7. Chemical form 7.
	Uranium Unspecified Unlimited
9.	The authorized place of use shall be the licensee's Highland project facilities in Converse County, Wyoming
10.	in Volume 6, Sections 3 and 4, of the licensee's revised application dated March 20, 1991, and the licensee's submittals dated June 12, 1987, and March 22, 1988, unless superseded by the following license conditions. [Applicable Amendments: 2, 7, 17, 18, 36]
11.	The licensee is hereby exempted from the requirements of Section 20.203(e)(2) of 10 CFR 20 for areas within the facility, provided that all entrances to the facility are conspicuously posted in accordance with Section 20.203(e)(2) and with the words, "Any area within this facility may contain radioactive material." The licensee shall also maintain the well-field area as a restricted area and implement postings notifying people of the hazard onsite. [Applicable Amendments: 36]
12.	Standard operating procedures (SOPs) shall be established for all operational process activities involving radioactive materials that are handled, processed, or stored. Standard operating procedures for operational activities shall enumerate pertinent radiation safety practices to be followed. Additionally, written procedures shall be established for nonoperational activities to include in-plant and environmental monitoring, bioassay analyses, and instrument calibrations. An up-to-date copy of each written procedure shall be kept in the process area to which it applies.
13.	All written procedures for both operational and nonoperational activities shall be reviewed and approved in writing by the Site RSO and the Corporate RSO before implementation and whenever a change in a procedure is proposed to ensure that
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	Corp	er radiation protection principles are bein orate RSO shall perform a documented review edures at least annually.	
	or no radio exis appl desig		tial for significant exposure to candard written operating procedure eathing zone air sample or an issued by the Site RSO or his lation protection training, and
	Β.	Any precautions necessary to reduce exposu	ure to urapium and its daughters,
	C.	The supplemental radiological monitoring a during, and following completion of the wo	and sampling pecessary prior to,
0.0.0	D.	In addition, the Site Ster review of a l documented.	nonpoutine activities shall be
2 2 15.	The Sect the 1	licensee shall maintean echieft control ion 9.1.4 of the licensee strey sed approve following additions	
	Α.	Operations shall be immediately suspended facility if any of the emission control en or packaging areas is not operating within performance.	
1 91	Β.	The licensee shall, during all periods of	ellowcake drying operations,
		assure that the scrubber is operating with	In the manufacturer's recommended
		ranges for water flow and air pressure dif design performance. This shall be accompl documenting checks of water flow and air p every 4 hours during operation, or (2) ins signal an audible alarm if either water fl fall below the manufacturer's recommended used, its operation shall be checked and d	ished by either (1) performing and pressure differential approximately stalling instrumentation which will ow or air pressure differential levels. If an audible alarm is
	C.	Air pressure differential gauges for other be read and the readings documented once p	r emission control equipment shall per shift during operations.
		[Applicable Amendments: 36]	
16. C	l wee	Dational exposure calculations shall be per ek of the end of each regulatory compliance FR 20.103(a)(2) and 10 CFR 20.103(b)(2). F	formed and documented within e period as specified in Routine radon daughter and
	14(14(14)	און אונגע אונגעע אונגעע אונגעע אונגעע אונגעע אונגעע אונגע	אר זשר זשר זשר זשר זער זער זער זער זער זער זער זער זער זע

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	particulate samples shall be analyzed in a t	imely manner to allow exposure
	calculations to be performed in accordance w	
	samples shall be analyzed and the results re 2 working days after sample collection.	viewed by the Site RSO within
17.	The licensee shall submit a detailed decommination of the prior to planned final shutdown of	
10		
18.	The licensee shall perform and document a da solution disposal system. Should the msmc	
	taken place, the NRC, Uranjum Recovery Field	Diffice, shall be notified by
	telephone within 48 hours	
	A written report shall be filed with the NRC	, Uranium Recovery Field Office,
	within 30 days of first notifying the NRC that	at a discharge_occurred. This report
	shall include analytical data and describe the that action.	he mitigative actions and the results
19.	The licensee shall maintain area within the	e pericted anea boundary for
	storage of contaminated materials prior to the shall be maintained at each same (lite ion exc	epsensionally, an area
	of contaminated materials, all contaminated shall be disposed at a versed madioactive	vastes and evaporation pond residues
	shall be disposed at a licensed adjoactive	aste disposal site.
	[Applicable Amendments: 600]	Sec. S
20.	In addition to the inspection and such produ	an described in Section 9.15 of the
	revised application dated March 20, 1990, the document a daily waikthrough of the factivity	Site RSO or the designee shall
	practices are being implemented. [App) cable	e Amendmentes: 36]
21.	The licensee shall submit to the NRC, Uranium the ALARA report as specified in Section 9.15	n Recovery Field Office, a copy of
	March 20, 1991, within 2 months of the and	the reporting period. The report
	shall also include a summary of the daily wal	kthrough inspections.
	[Applicable Amendments: 36]	
22.	The licensee shall implement the in-plant aim	r monitoring program, surface
	contamination and employee exposure programs	as specified in Section 9 of the
	March 20, 1991, revised application Operation requirement that continuous air sampling repr	
	zone shall be conducted within the inner bar	
	operations. The results of this sampling sha	all be used in determining the
	internal exposure of workers involved in yell changes in radon daughter monitoring frequence	
	approval in the form of a license amendment.	
23.	If any worker's exposure reaches or exceeds 2	25 percent of the maximum permissible
	exposure limits as specified in 10 CFR Part 2	20, based upon a calculated Time
	Weighted Exposure (TWE) for the week or the c	calendar quarter, dependent on the

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	Necessary corrective measures shall be taken	n to ensure that future exposures are
	as low as is reasonably achievable. Records investigations and results furnished to the	s shall be maintained of these NRC, Uranium Recovery Field Office.
	in the semiannual 10 CFR 40.65 report.	
24.	In addition to the bioassay program discusse the licensee shall comply with the following	to identify the source of the n to ensure that future exposures are s shall be maintained of these NRC, Uranium Recovery Field Office, ad in Section 9.5 of the application, hium for prinalysis or 9 nCi of t is reached or exceeded, the licensee
	A. Anytime an action level of 15 ug/l uran natural uranium for in vivo measurement	nium for wrinalysis or 9 nCi of t is reached or exceeded, the licensee
9	shall document the corrective actions w accordance with Revision 1 of Regulator	which have been performed in [g
	This documentation shall be submitted t	to the NRC, Uranjum Recovery Field
	Office, as pant of the semiannual report	rt peopered by 10 CFR 40.65.
	B. Anytime an action level 35 ug/ for	two onsecutive specimens or 130 ug/1
	uranium for one speciment for urinalysis	s on 63nCi uranium for an in vivo
	measurement is reached or exceeded, in corrective actions which have been per	Context in accordance with Revision 1
	corrective actions which have been per of Regulatory Guide 8,22. (9) is been	tation all be abmitted to the NRC,
	Uranium Recovery Field Office Within action level	airty days or exceeding the
	C. All in vivo measurements shall be perto recommendations contained in Revision	or Regulatory Guide 8 22
	[Applicable Amendments: 36]	
25.	If employees do not shower prior to leaving	
	monitor themselves with an alpha survey inst	trument prior to exiting. Should the
	results of monitoring exceed an action level decontaminate themselves to less than the ac	tion level. If decontamination
	cannot be accomplished, the employee shall r	report the incident to the Site RSO
	for investigation. Additionally, the Site F unannounced quarterly spot checks of employe	RSO shall perform and document
		the process area.
26.	DELETED BY Amendment No. 36.	
27.	Any changes in the organization or staff res	sponsibilities as described in the
	licensee's June 23, 1989, and February 6, 19	991, submittals shall require prior
	approval by the NRC in the form of a license in staff members reporting to and including	the Corporate RSO shall require prior
25. 26. 27. 28.	approval by the NRC. [Applicable Amendments	s: 18, 26, 28, 29, 36]
28.	DELETED by Amendment No. 5.	
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29.	DELETED by Amendment No. 5.
30.	The results of sampling, analyses, surveys and monitoring, and calibration of equipment and reports on audits and inspections, all meetings and training courses required by this license and any subsequent reviews, investigations, and corrective actions, shall be documented. Unless otherwise specified in the NRC regulations, all such documentation shall be maintained for a period of at least 5 years.
31.	Release of equipment or packages from the restricted area shall be in accordance with the attachment to SUA-1511 entitled, "GuideFines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Licenses for Byproduct on Source Materials," dated September 1984.
32.	The total satellite facilities' throughput shall not exceed a flow rate of 7500 gallons per minute. [Applicable Amendments: 17, 36]
33.	Any significant changes in the process circuit as illustrated and described in Figure 2 of the Aperations Plan of the revised beense application dated March 20, 1991, shall require approval by the NRC in the form of a license amendment. [Applicable Amendments: 26]
34.	The licensee shall sample and analyze the ipergation fluid water quality at the irrigation sprinkler discharge on at least a monthly basis during times of irrigation. The sample shall consist of dark samples composited over the month. The following parameters shall be determined pH, conductivity, TDS, Na, Ca, Mg, K, Cl, SO ₄ , HCO ₃ , Ws, B, Cf, Cu, Ni Sellon, U300, and Radium-226. The irrigation fluid shall be sampled and analyzed are a monthly basis for Ra-226 at the East Radium Pond Discharge. The results of these analyses shall be included with the semiannual environmental monitoring report.
35.	DELETED by Amendment No. 36.
36.	Two months prior to conducting any mining activities for a new mining unit, the licensee shall submit hydrologic test results depicting hydrologic properties controlling ground-water flow, baseline water quality data, and proposed upper control limits (UCLs) for that unit to the NRC for review and approval. Approval shall be in the form of a license amendment to allow lixiviant injection and other mining processes to begin. [Applicable Amendments: 30, 36]
37.	All liquid effluents from process buildings and other process waste streams, with the exception of sanitary wastes, shall be returned to the process circuit or discharged to the solution disposal system.
38.	A. Baseline water quality sampling shall conform with the program described in the submittal dated October 7, 1987, such that baseline water quality for all new mining units shall be submitted 2 months prior to lixiviant injection. The data shall, at a minimum, consist of:

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č			License number SUA-1511, Amendment No. 36
			MATERIALS LICENSE Docket or Reference number
			SUPPLEMENTARY SHEET 40-8857
			NOV 2 2 1991
			• One sample analyzed for the State of Wyoming, Department of
			Environmental Quality, Guideline 8, Appendix A, parameters per individual well.
			 Two separate samples analyzed for bicarbonate, chloride, electrical
			conductivity, radium, selenium, total dissolved solids, uranium, iron,
N.			pH, arsenic and fluoride, per individual well.
		Β.	DELETED by Amendment No. 24.
			D REA.
NEON ON ON ON ON ON ON ON		[App	DELETED by Amendment No. 24. licable Amendments: 2, 4, 6, 9, 12, 14, G_{16} , 17, 22, 24, 36] TED by Amendment No. 24.
	39.	DELF	TED by Amendment No. 624.
اجره	40.	Α.	Upper control limits (UCLs) and baseline water quality data for all monitor
S			wells to be utilized for operational and restoration monitoring shall be
			electrical conductivity will be defined as the mining unit baseline mean
			plus five standard deviations. The UCL for the loride will be defined as the
			derived for each individual mining unit. The UCLs for bicarbonate and electrical conductivity will be defined as the mining unit baseline mean plus five standard deviations. The UCL for chloride will be defined as the mining unit baseline mean plus five standard deviations or the mining unit baseline mean plus 15 mg/H, whichever is dreater.
		Β.	For the following number unstant UCLs are approved as det neated in the
			licensee's veferenced submitted set
			Mining Unit Q
			Solution of the second
			Section 21:20-Sand
DECECTED.	÷-		Section 21:30-Sand November 2, 1988
Ø			Section 21:30-Sand (North) November 2, 1988 Section 14:40-Sand (North) February 13, 1989
e≱i			Section 14:40-Sand (South) April 2 1990
			Section 22/23:40-Sand March 12, 1991
			Section 15/22/23:50-Sand September 5, 1991
		C.	Section 21:20 tand Section 21:30-Sand Section 14:40-Sand (North) Section 14:40-Sand (South) Section 14:40-Sand (South) Section 22/23:40-Sand Section 15/22/23:50-Sand The licensee shall implement monitoring well modifications to the mining unit denoted as Section 21, 20- and 30-Sand as outlined in their submittal of May 19, 1988. Monitoring wells M-40, M-41, M-42, and M-43 shall be monitored biweekly until such time as excursion status is removed and a request to revise sampling frequency is submitted, or unless there is a reversal in the trend towards water quality improvement as described in the submittal dated August 19, 1991. Additionally, routine monitoring for wells CMO-1, CMO-11, CMO-18, CMU-7, and DMU-1 shall consist of water levels only. The licensee shall monitor Section 14:50 Sand (South) trend wells CRMW-1, COW-1, CPTW14-2, and CRMW-6 for bicarbonate, chloride, and conductivity on the frequency specified for the monitor wells.
			unit denoted as Section 21, 20- and 30-Sand as outlined in their submittal
			of May 19, 1988. Monitoring wells M-40, M-41, M-42, and M-43 shall be monitored biweekly until such time as excursion status is removed and a
			request to revise sampling frequency is submitted, or unless there is a
			reversal in the trend towards water quality improvement as described in the
			submittal dated August 19, 1991. Additionally, routine monitoring for wells CMO-1, CMO-11, CMO-18, CMU-7, and DMU-1 shall consist of water levels
			only.
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		D.	The licensee shall monitor Section 14:50 Sand (South) trend wells CRMW-1,
			COW-1, CPTW14-2, and CRMW-6 for bicarbonate, chloride, and conductivity on the frequency specified for the monitor wells.
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[Appli	cable Amendme	nts: 4,6	, 8, 9, 12,	16, 17	, 22, 23,	24, 30,	33,	34, 3	86]	
peroxi [Appli	de. Any vari cable Amendme	ation from ents: 12,	this combir 36]	nation	shall req	uire a l	icen	se ame	endme	n nt.
Each r reserv	adium settlin oir shall hav	g pond sha e 4 feet o	11 have 3 fe freeboard	requir	freeboard ed 🗸 🗙 🔪	require	ed.	The st	corag	e
settli as mea Should Field the po Water conduc follow standp WDEQ/Lu A writ within includ that a	ng ponds and surements of, analyses ind Office, shall nd level shal quality sampl tivity once e ing repairs ipes shall be QD Guideline ten report sh 30 days of v e analytical	the storag pond freeb ocate that be notified be lowed es taken a very 7 day Additiona analyzed 8, Ansendi all be taken all be taken all be taken data and d	e reservoir oard and che the pond is ed by teleph ed by transf the standp during the during the to the full x 11 at leas	embank ecks of i leaki ione wi cerring ipe st ample ample ample i once	ments, fé the leak ng, the N the N the 24 h the cont of the an period fo collecte of param per mont rapim Re	Aces and RC Jurar ours of ents int alyzed f alyzed f at the eters as h during	l lin on s veri to th for c set 2 set def the	ers, a ystem. Recove ficati e othe hloric weeks tling ined i leak	ery ion a er ce de an basi peri	11 nd 11. d n od.
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license ground restor 20- and review shall baselin to base descrif result quality	ee shall subm -water restor ation methodo d 30-Sand min and approval be to return ne concentrat eline concent bing the meth s of any subs y, and an eva	it to the ation and logy descr e units fo in the fo the ground ions. Add rations sh odology im equent res luation of	NRC, Uranium post restora ibed in the r any subsec rm of a lice -water quali itionally, f all require plemented du toration eff	Recover June 2 June 2 Juent m ense am ty, on failure the lif iring t	ery Field onitoring 6, 1991, ining uni endment. a mining to resto censee to he restor o further	Office, submitta ts shall The goa unit av re grour submit ation at improve	a s levia fo req l of verag nd-wa a re temp gro	chedul tion f r Sect uire M resto e, to ter qu port t, pre und-wa	le fo from tion NRC prati ualit edict	r the 21, on y
	E. N o [Appli The li peroxi [Appli Each r reserv The li settli as mea Should Field the po Water conduc follow standp WDEQ/L A writ within includ that a [Appli DELETE At lea licens ground restor 20- an review shall baseli to bas descri result qualit	 m 374A U.S. MATERIALS SUPPLEMENT E. No uranium reconstruction 1990. [Applicable Amendme] The licensee shall peroxide. 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Any variation from [Applicable Amendments: 12, Each radium settling pond sha reservoir shall have 4 feet of The licensee shall perform an settling ponds and the storag as measurements of pond freeb Should analyses indicate that Field Office, shall be lower Water quality samples taken a conductivity once every 7 day following repairs. Additiona standpipes shall be analyzed WDEQ/LQD Guideline 8, Appendia A written report shall be the within 30 days of Virst notif include analytical data and d that action. [Applicable Amendments: 5] DELETED by Amendment No. 36. At least 2 months prior to te licensee shall submit to the ground-water restoration and restoration methodology descr 20- and 30-Sand mine units fo review and approval in the fo shall be to return the ground baseline concentrations. Add to baseline concentrations sh describing the methodology im results of any subsequent res quality, and an evaluation of 	MATERIALS LICENSE SUPPLEMENTARY SHEET E. 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Additionally, failure to baseline concentrations shall require the li describing the methodology implemented during t results of any subsequent restoration efforts t quality, and an evaluation of the impacts to th 	 B 374A U.S. NUCLEAR REGULATORY COMMISSION MATERIALS LICENSE SUPPLEMENTARY SHEET E. No uranium recovery shall be allowed in the "potent on the Section 14 ISL Pattern map submitted by cove 1990. [Applicable Amendments: 4, 6, 8, 9, 12, 16, 17, 22, 23, The licensee shall utilize a carbon dioxide solution with peroxide. Any variation from this combination shall req [Applicable Amendments: 12, 36] Each radium settling pond shall flave 3 "fett of preeboard reservoir shall have 4 fact of freeboard required. 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Additionation factor factor for standpipes shall be and the factor factor factor for the standpipes shall be and the factor factor factor for the standpipes of the factor factor factor for the standpipes factor factor factor factor factor. DELETED by Amendment No. 36. 	m 374A U.S.NUCLEAR REGULATORY SOMMUSION PAGE MATERIALS LICENSE SUPPLEMENTARY SHEET License number SUA-1511. Docket or Reference number 40-52 MATERIALS LICENSE SUPPLEMENTARY SHEET NOV 52 E. No uranium recovery shall be allowed in the "potential patt on the Section 14 ISL Pattern map submitted by cover letter 1990. NOV 52 [Applicable Amendments: 4, 6, 8, 9, 12, 16, 17, 22, 23, 24, 30, The licensee shall utilize a carbon dioxide solution with an oxy peroxide. Any variation from this combination shall require a 1 [Applicable Amendments: 12, 36] Each radium settling pond shall have 3 TeEt Gr freeboard require reservoir shall have 4 feet or freeboard required The licensee shall perform and document a daily visual respection settling ponds and the storage reservoir embankments, feares and as measurements of pond freeboard and checks of the leak filection should analyses infocate that, the pond is leaking the NRC drar field Office, shall be lowered by transferring for content; Int water quality samples taken a the standpipe shall be analyzed in content; Int water quality samples taken a the standpipe shall be analyzed in conductivity once every 7 day the pone field for at the standpipes shall be analyzed to the full rung for preserver and the standpipes shall be analyzed to the full rung for preserver and that action. [Applicable Amendments: 5] DELETED by Amendment No. 36. A written report wall be in the NRC, Uranium Recovery Field Office, ground-water restoration and post restoration monitoring. Any conderver for a license amendment. The goe shall be to return the ground-water quality, on		m 374A U.S. NUCLEAR REGULATORY COMMISSION page 7 or MATERIALS LICENSE SUPPLEMENTARY SHEET Livene number SUA-1511, Amendment SUA-1511, Amendment Docket or Reference number 40-8857 NOV 22 1991 E. No uranium recovery shall be allowed in the "potential pattern area" on the Section 14 ISL Pattern map submitted by cover letter dated Apr 1990. [Applicable Amendments: 4, 6, 8, 9, 12, 16, 17, 22, 23, 24, 30, 33, 34, 35 The licensee shall utilize a carbon dioxide solution with an oxygen or by peroxide. Any variation from this combination shall require a license ame [Applicable Amendments: 12, 36] Each radium settling pond shall have 3 fett of freeboard required. The st reservoir shall have 4 feetor freeboard required. The licensee shall perform and document a daily visual inspection of the settling ponds and the storage reservoir embankments, fences and liners, a as measurements of pond freeboard and checks of the leak (Direction system. Should analyses indicate that the pond is leaking the NRC Uranium Recover Field Office, shall be lower by transferring the content who the othe water quality samples takendar the standpipe shall be lower by the phone without 4 hours of verificati the pond level shall be lower by transferring the content of the stating standpipes shall be analyzed for the stating provide the set ling standpipes shall be analyzed to the state pone without 4 hours of verificati the state of the leak beford for at least 2 weeks following papales takendar the state pone without 4 dis set ling standpipes shall be analyzed to the state pone pervision due the set include analyzed to the the RC Uranium Recovery Field Office, a schedu ground-water restoration an	374A U.S.NUCLEAR REGULATORY COMMISSION PAGE 7 or 12 MATERIALS LICENSE SUPPLEMENTARY SHEET Lienze number SUA-1511, Amendment No. Docket or Reference number 40-8857 NOV 22 1391 Docket or Reference number E. No uranium recovery shall be allowed in the "potential pattern area" show on the Section 14 ISL Pattern map submitted by cover letter dated April 2 1990. [Applicable Amendments: 4, 6, 8, 9, 12, 16, 17, 22, 23, 24, 30, 33, 34, 36] The licensee shall utilize a carbon dioxide solution with an oxygen or hydroge peroxide. Any variation from this combination shall require a license amendme [Applicable Amendments: 12, 36] Each radium settling pond shall have 3 feet of freeboard required. The storag reservoir shall have 4 feet of treeboard required. The storag reservoir shall have 4 feet of treeboard required at the pond is leaking the NRC duranium Recovery Field Office, shall be nowing by transferring the content system. Should analyses inforcate that the pond is leaking the NRC duranium Recovery Field Office, shall be nowing by transferring the content into the other ce Water quality same statement of pond. The power of the settling basi standpipes shall he and word office office office and the results of the analytical wate and destribute the the power per worth during the leak peri MUEQ/LOD Guidel Me 8, Amendia the the the the there water as defined in WDEQ/LOD Guidel Me 8, Amendia the the there there are and the results of that action. [Applicable Amendments: 9] DELETED by Amendment No. 36. At least 2 months prior to termination of uranium recovery field Offrice, w

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46. The licensee shall maintain an NRC-approved financial surety arrangement, consistent with 10 CFR 40, Appendix A, Criterion 9, adequate to cover the estimated costs, if accomplished by a third party, for completion of the NRC-approved site closure plan including; above ground decommissioning and decontamination, the cost of offsite disposal of radioactive solid process or evaporation pond residues, and ground-water restoration as warranted. Within three (3) months of NRC approval of a revised closure plan and cost estimate, the licensee shall submit, for NRC review and approval, a proposed revision to the financial surety arrangement if estimated costs in the newly approved site closure plan exceed the amount covered in the existing financial surety. The revised surety shall then be interfect within 3 months of written NRC approval.

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Annual updates to the substy amount, required by 10 of R 40, Appendix A, Criterion 9, shall be provided to the NRC at least 3 months prior to the anniversary date which is designated as August 31 of each year. If the NRC has not approved a proposed revision 30 days prior to the expiration date of the existing surety arrangement, the licensee shall extend the existing arrangement, prior to expirating, for 1 year. Along with each proposed revision or annual update, the licensee shall extend the existing a breakdown of the costs and the basis for the cost estimates with adjustments for inflation, maintenance of a minimum 15 percent contingency changes in engineering plans, activities performed and any other conditions of ething estimated costs for site closure. The licensee shall are provide the MRC with copies of surety related correspondence with the state, be one of the transmission and the final approved surety arrangement. The incensee must all ensure that the surety, where authorized to be here the transmission and decommissioning and decontamination, the cost of of site disposal and where sample analyses and ground-water restoration associated with the site. The basis for the cost estimate is the NRC approved site closure plan or the NRC approved revisions to the plan. Reclamation/decommissioning plan, cost estimates and annual updates should follow the outline in the attachment to 50A-1511 entitled, "Recommended Outline for Site Specific Reclamation and Stabilization Cost Estimates."

Power Resources' currently approved surety, Irrevocable Letter of Credit No. SF0870IM issued by National Westminster Bank PLC in favor of the State of Wyoming, shall be continuously maintained in an amount no less than \$4,820,900 for the purpose of complying with 10 CFR 40, Appendix A, Criterion 9, until a replacement is authorized by both the State and the NRC.

[Applicable Amendments: 18, 25, 27, 36]

47. DELETED by Amendment No. 36.

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48. The licensee shall implement the effluent and environmental monitoring program specified in Sections 9.7 and 9.8 of the March 20, 1991, revised license application, the submittal dated March 16, 1989, Section 2 of the July 1986, Wastewater Land Disposal Application, and Section No. 7 of the April 1986, Wyoming Groundwater Pollution Control Permit for Subsurface Injection of Mineral

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	Proc	essing Waste. Add	ditionally	, the licensee	shall imp	lement an	air par	ticulate	
	moni	toring program ext	ternal to	the main proce	ssing faci	lity in a	ccordanc	e _, with	
	10 C	FR Part 20.							
	In a	ddition to the eff	fluent and	environmental	monitorin	a submitt	al in ac	cordance	
		10 CFR Section 40							
	o			•. •			- · ·		
	Ũ	Results of the gr					Section	8.2 of	
		the revised licer	••		•				
	0	Injection rates,	recovery	pates, and ini	ection man	ifold pre	ssures.		
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	0	Notwithstanding t	the stack	sampling speci	fied above	the lic	ensee sh	all	
y		include the semi	nuµuai mon` ≽	itor data tor	ine arying	O pack	aging st	acks.	
G	0	Results of month	y irrigat	ion fluid wate	r quality	sample an	alyses f	or pH.	
		Results of monthiconductivity, DS	s, Na, Ga,	Mg, K, C1, SO	4, HGO2 A	5, B.Cr,	Cu, Ni,	Se, Źn,	
		$U_3 0_8$, and Ra=226.				~			
	o	Monitoring data s	hall	ant of the	Commit she	wn in≪th	o attach	mont to	
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	49. Upper	r Control Limit (U			nnlied to	11 Sit	on wolle	to	
	deter	mine when action	must the t	aken to contro	exconsion	ns durina	restora	tion with	n 🖡
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Kul.	least	: bicarbonate. chl	orโde. an	d conductivity	. An excu	rsion is	confirme	d if two	
K.	or ma	ore UCL values are	exceeded	Corrective	action to m	nitigate	the situ	ation	
	snal	be initiated by	the licens	see when an jex	cursion is	confirme	d and the	e	
		nsee shall notify phone and within 7							
		the excursion is							
	frequ	ency and analysis	of excurs	sion status we	lls shall b	be at lea	st once (every	
	sever	n days for the thr	ee indicat	tors listed ab	ove, as lor	ng as tho	se wells	are on	
		rsion status. An] excursion indic							
		sion.	acors are	Delow the CON	centrat 100	IEVEIS W	inch def	ine dil	
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	includ	parate samples take ed in the excursion ry Field Office.						
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50.	in-sit	censee shall monito J site in accordanc cable Amendments:	e with their				d pilot	
51.	Section require	nificant changes i 1.4 of the revise approval by the able Amendments	d license app RC, Uranium R	lication date	d_March 20, 1	as descril 991, shall	bed in	
52.	area in	censee is authorize accordance with s 27, 1989 (Februar)	ubmittals dat	ed November 2	3, 1988; D ece	eir Section nber 9, 198	n 14 38;	
	satelli be moni	onally, the pipelin te facility to the tored as follows andpipes will be the buried inter	Section 21 (a)	realsate te	and treatmén	t facilitie	es will	
	(2) St	andpipes with be music, and all observes of the buried of the second sec	onitored for	leak detection	n and integri	ty on a mor		
	re	mp rates, volumes,	××,	ill be logged	on a daily f	requency ai	nd	
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53.	Resource Wyoming disposa inspect license 7 worki approva	ensee is authorized es, Inc. facility a , mill. The licen 1 plan, and the lic ion onsite. In the e is required to no ng days of the exp 1 within ninety (90 ted from further 1	at the America see's agreemen censee shall h e event the ag otify the NRC iration date. D) days of exp	an Nuclear Con nt with ANC co pe required to greement expin , Uranium Reco A new agreen piration, or 1	rporation (AN onstitutes an o maintain the res or is ter overy Field o ment must be s the licensee w	C) Gas Hil approved we agreement ninated, th ffice, with submitted to will be	ls, vaste for ne nin for NRC	
54.	trainin	iation Safety Prog g and experience e ory Guide 8.31, wi	quivalent to t	the recommenda	ations contai	ned in NRC		

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On O	56.	shall p evaluat environ that pr activit	repare and reco ion indicates i mental impact i eviously assess ies and obtain	ord an en that such that was sed, the approva	y not previousl vironmental eva activity may r not previously licensee shall of the NRC in tivity. [Appli	luation of esult in a assessed o provide a the torm o	such act signific that is written e f a licer	civity cant a grea evalua	. Wh dvers ter t tion	en tl e han of si	he
	57.	Three m	onths prior to	construc	tion of Satelli	te No. 3 a	ind ancill	ary f	acili	ties	, ,
					quest for a rev ment. The subm						val
					ity process co						so
Next.		include	a facility rad	diologica	monitoring, pr	6gram [A	pplicable	e Amen	dment	s: 3	36]
	58.	In the (event that prev	vious	nknown cultural	resources	are arso	overe	d dur	ing	
		constru	ction, around a	disturbin	activities in	A vici	nitv smal	l be	halte	d and	d
		notifie	d immediately.		ment Alatte Ri Ctrag work max	not resume	unti P t	nanage ne cul	tural	.PI-PKI	KA)
		resource	e has been_ful	ly evalua	ted by a qual of	ied archae	ologist a	ınd an	y nec	essa	ry
		qualifi	ed archaeologis	st to mon	t fid some tas	turbing ac	tivities	for s	ome p	ropos	sed
		actions		. = 6 ¹⁰ .	U q mp	\$U	S			•	10
		Surface	disturbance s	nali-not	occur within th	ose Federa	- Iv-admir	nister	ed su	rface	e
541		areas w	hich have not b	oeén∕exam	ined at the Cla	ss III su r	vey level	unti	la		
		Class I.	II cultural res	source in	ventory has bee	n and and	approved	i by t	he BL	M-PKI	KA.
					vately owned ar						it
		applicat	tion area be re disturbing acts	esurveyed ivities i	for cultural r f the pertinent	esources p cultural	rior to 1 resource	inven	lentin Itorv	ig was	
		conduct	ed before 1980.	. Federa	l surface withi	n the perm	nit area t	hat f	alls	into	
		this cat	tegory shall be	e invento	ried prior to d	isturbance	•				
		All act	ions associated	d with th	e proposed deve	lopment wi	11 be com	plete	d in		
					istoric Preserv R800), the Arch						ct I
		(as ame	nded) and its i	implement	ing regulations	(43CFR7).	Further	, gui	delin		uch
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	as the Secretary of th Historic Preservation, be followed where appr [Applicable Amendments	s: 36]	nd Guidelines for A	rchaeology and ual series will '
夏い夏い夏い夏い夏い夏い夏い夏い夏い	Date: <u>11-22-91</u>	JCLEARamon E.Ga Uranium Rec Region IV	Vi/Director overy Field Office	7
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