

Table 1. Licensing request regarding restricted areas at Ambrosia Lake West mill with licensing action.

Restricted area	Last request with licensing action	Map included?	Licensing action
Ambrosia Lake West Mill	SUA-616 renewal application dated February 3, 1970 ( <a href="#">ML20087H737</a> ), Attachment B, Items 3 and 4 describes the mill location “in the northwest quarter of Section 31” (T14N R9W) and restricted area: “The mill area along with tailings disposal area and evaporation ponds is enclosed within a fence which is posted approximately each 100 feet with signs which read ‘Restricted Area’”. A map showing the complete fence line was not provided. (See Note 1)	No	SUA-616 was renewed ( <a href="#">ML20091L963</a> ) based on the February 1970 submittal. (See Note 1)
Section 4 Ponds 11 through 15	An addendum, “Evaporation Ponds in Section 4” to <i>Report for Renewal of AEC License SUA-616 Under State of New Mexico Authority</i> ( <a href="#">ML20246H434</a> ), dated November 1976, was submitted to NMEIA for ponds 11 through 15. The “Additional Information” section states: “The pond area will be fenced and posted as a restricted area.”	No	SUA-616 was amended ( <a href="#">ML20217N210</a> ) adding condition 17 to authorize operation of evaporation ponds 11 through 15.
Section 4 Ponds 16 and 17	KMC submitted an amendment request dated April 4, 1979 to construct ponds 16 and 17 ( <a href="#">ML20246H746</a> ). Location maps were provided with the submittal, but the fence line was not clearly depicted. It is assumed the pond restricted area was the same as for ponds 11-15.	No	SUA-616 was amended ( <a href="#">NMEID 1979</a> ) to allow operation of ponds 16 and 17.
Section 4 Ponds 18 through 21	Amendment request dated May 29, 1979 to construct ponds 18 through 20 ( <a href="#">ML20246H791</a> ) followed by multiple supplemental submittals without a high-quality boundary map. It is assumed the pond restricted area was the same as for ponds 11-15.	No	SUA-616 was amended ( <a href="#">NMEID 1980</a> ) to allow operation of ponds 18 through 21.
Section 24 OSL	OSL with chemicals in section 24 T14N R10W was proposed by QMC in a submittal dated July 14, 1987 with a map showing the project area on Figure 1 ( <a href="#">ML20235X404</a> ).	Yes, Map B	SUA-1473 was amended approving this process ( <a href="#">ML20154M936</a> ).
Section 35 IX	A boundary map for the Section 35 IX restricted area was submitted to NMEIA on May 4, 1976 ( <a href="#">ML20266H443</a> ) and May 28, 1976 ( <a href="#">ML20246H658</a> ).	Yes, Map C	SUA-616 was amended adding condition 16 in response to these submittals ( <a href="#">ML20217N215</a> ).

Notes:

1) The ALW mill and section 4 ponds restricted areas were provided in a map in the Radiation Protection and Environmental Monitoring Program Manual ([ML23088A157](#)) as part of a license amendment request approved by NRC as amendment 64 to SUA-1473 ([ML23068A461](#)).

AEC – US Atomic Energy Commission

ALW – Ambrosia Lake West

IX – ion exchange

KMC – Kerr-McGee Corporation

KMNC – Kerr-McGee Nuclear Corporation

NMEIA – New Mexico Environmental Improvement Agency

NMEID – New Mexico Environmental Improvement Division

NRC – US Nuclear Regulatory Commission

OSL – old stope leach

QMC – Quivira Mining Company

R – range

SUA-616 – ALW mill license, regulated by the AEC from 1962-1974 and the State from 1974-1986

SUA-1473 – ALW mill license, regulated by the NRC from 1986-Present

T – township

Table 2. Licensing request regarding restricted areas at Ambrosia Lake West mill with no licensing action.

Restricted area	Last request with no licensing action	Map included?	Licensing action
Ambrosia Lake West Mill	A boundary description and maps were provided in QMC's license renewal application dated October 1983, Section 2.1.1 and Map 1 ( <a href="#">ML20045H214</a> ) (See Note 1)	Yes, Map A	None
Section 4 Ponds 11 through 15			
Section 4 Ponds 16 and 17			
Section 4 Ponds 18 through 21			
Section 35 IX	The Section 35 IX plant restricted area was included in an addendum dated August 1976 ( <a href="#">ML20246H368</a> ) to KMNC's December 1975 license renewal application ( <a href="#">KMNC 1975</a> ).	Yes, Map C	None

Notes:

1) The ALW mill and section 4 ponds restricted area depicted on current maps corresponds to the boundary indicated as "property line" (not the "fence line") in Map 1 of the 1983 license renewal application ([ML20045H214](#)) and includes all of section 4 T13N R9W and all of the north half of section 6 T13N R9W

IX – ion exchange

KMNC – Kerr-McGee Nuclear Corporation

QMC – Quivira Mining Company

References (No ADAMS Accession Number for these references)

KMNC. December 30 1975. *Report for Renewal of AEC License SUA-616 under State of New Mexico Authority*. Letter from G.D. Milligan (KMNC) to Alphonso Topp, Jr. (NMEIA Radiation Protection Section). Kerr-McGee Nuclear Corporation (BMH027521, BMH027528, BMH027530, BMH024657).

NMEID. April 18 1979. *Amendment to SUA-616 adding conditions 19-23*. Letter from Gerald W. Stewart (NMEID) to KMC. New Mexico Environmental Improvement Division (BMH021124, BMH027521, BMH018914).

---. March 3 1980. *Amendment to SUA-616 adding conditions 24-31 for section 4 ponds*. New Mexico Environmental Improvement Division (BMH027521).