

9770

January 29, 1990

DOCKETED
USNRC

'90 JAN 30 P4:25

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

OFFICE OF SECRETARY
DOCKETING & SERVICE
BRANCH

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of	}	
KERR-MCGEE CHEMICAL CORPORATION		Docket No. 40-2061-ML
(West Chicago Rare Earths Facility)		ASLBP No. 83-495-01-ML

NRC STAFF PROPOSED TRANSCRIPT CORRECTIONS

The NRC Staff requests transcript changes in the above-captioned proceeding as noted below:

<u>At:</u>	<u>Requested change:</u>
Tr. 690, line 13	"Mary" should be spelled "Merri"
Tr. 691, line 5 and throughout transcript	substitute "groundwater" for "ground water"
Tr. 695, lines 10 and 17, and throughout transcript	"radionucleides" should read "radionuclides"
Tr. 696, line 24	"capillary" should read "calculated"
Tr. 696, line 25	substitute "concentrations" for "concentration"; substitute "quoted" for "quotes"; add "of the" after "quoted"; "radionucleides" should be "radionuclides"; "uranium-230" should be "Uranium-238"; "radium-226" should be "Radium-226"; lines 24-25 should read "Well, according to this table, all the calculated concentrations quoted of the radionuclides, Uranium-238 and Radium-226"
Tr. 697, line 1	"were" should be "for"; should read "for West Chicago"
Tr. 697, line 2	"between" should be "below"; should read "would be below regulatory requirements."

DS07

Tr. 697, line 14 "alternative" should be "Alternatives"

Tr. 699, line 5 "heterogenous" should be "heterogeneous"
and throughout transcript

Tr. 699, line 16 "that" should be "what"; should read "testing to indicate what a complete range"

Tr. 699, line 17 insert "is" after "infiltration"; should read "infiltration is for specific points"

Tr. 703, line 11 add "develop" after "may"; should read "clay liners on top may develop"

Tr. 704, line 24 add "of" between "matter" and "infiltration"; should read "the matter of infiltration"

Tr. 710, line 7 "to" should be "if you"; should read "I said that if you increase"

Tr. 710, line 10 "leach" should be "leached"

Tr. 711, line 2 "of" should be "in"; should read "the concentration in the"

Tr. 712, line 17 "anti-" should be "anions"; should read "sulfate and other anions"

Tr. 712, line 19 "the" should be "The"

Tr. 713, line 3 "particular" should be "particularly"

Tr. 713, line 4 "mobil" should be "mobile"

Tr. 713, line 9 insert "move" between "would" and "basically"; should read "We assumed it would move basically"

Tr. 713, line 14 "relative" should be "relatively"

Tr. 715, line 14 "waste" should be "wastes"

Tr. 715, line 17 "And" should be "In"

Tr. 715, line 18 insert "it" after "materials"; insert a semicolon after "considerable"; "and" should be "in"; insert a comma after "materials"; insert "it" before "can"; line should read "materials it can be considerable; in other materials, it can be a very,"

- Tr. 717, line 13 "type" should be "types"
- Tr. 717, line 14 "I think I got" should read "I think I've got"
- Tr. 721, line 20 end of line "but they're" should read "but their"
- Tr. 721, line 21 delete "of" at the end of this line; should read "maximize drainage off the pile."
- Tr. 728, line 24 "sandsoap" should be "sandstone"; should read "sandstone clay"
- Tr. 730, line 14 "Radion 226" should be "Radium-226"
- Tr. 730, line 16 "Uranium 238" should be hyphenated and read "Uranium-238"; "Radion 226" should be "Radium-226"
- Tr. 731, line 5 insert a period after "D" and between "I"; should read "except D. I guess because"
- Tr. 731, line 23 "radionucleides" should be "radionuclide" (note the extra "e" in the misspelling)
- Tr. 732, line 8 "modern" should be "modeling"; should read "the modeling technique"
- Tr. 732, line 14 first word of the line should be "sites"; should read "sites, at the site boundary"
- Tr. 750, line 4 "nine unique" should be "non-unique"; should read "a non-unique solution"
- Tr. 751, line 3 "hydrotheologically" should be "hydrogeologically"
- Tr. 751, line 16 "six" should be "sixth"; should read "ten to the fifth to ten to the sixth years."
- Tr. 756, line 21 insert "on" after "based"; should read "The model is based on quite a few"
- Tr. 756, line 24 "radiant" should be "gradient"; should read "hydraulic gradient"
- Tr. 757, line 6 "me" should be "we"; should read "so by making a 2-D and say well we"
- Tr. 757, line 23 "radiant" should be "gradient"; should read "the hydraulic gradient,"

- Tr. 758, line 1 "not" should be "lot"; should read "There's a lot of phenomena,"
- Tr. 759, line 21 "radiant" should be "gradient"; should read "as it moves down gradient"
- Tr. 759, line 23 "radiant" should be "gradient"; should read "slug movement down gradient with no"
- Tr. 760, line 17 "a entity" should be "an entity"; should read "of something into a stream it's an entity of"
- Tr. 761, line 23 "measure" should be "measured"; should read "the predicted versus the measured hydraulic heads. So that"
- Tr. 762, line 21 insert "for" after "values"; should read "several values for dispersivity"
- Tr. 762, line 22 "get" should be "matched"; should read "the model actually matched their field measurements"
- Tr. 762, line 23 "chemistry" should be "dispersivity"; should read "observations of dispersivity."
- Tr. 763, line 2 "facer" should be "tracer"; should read "You could input a dye tracer into an"
- Tr. 763, line 9 insert "in" after "difficulties"; should read "the difficulties in evaluating the situation"
- Tr. 763, line 25 insert "for" after "vertical"; should read "not include anything for vertical dispersivity"
- Tr. 764, line 2 "dispersions" should be singular; should read "no vertical dispersion to consider."
- Tr. 766, line 12 "dimension" should be "dimensional"; should read "dispersion of radionuclides is three dimensional."
- Tr. 770, line 17 "to" should be after "you"; should read "you to question the model results."
- Tr. 771, line 25 insert "we" after "is"; should read "things we were doing with the model is we wanted to insure that"
- Tr. 775, line 6 "suspicions that were" should be "suspicions there was"; should read "had known that this was or suspicions there was a laboratory"

- Tr. 780, lines 15, 21 and 23 "silurian" should be "Silurian"
- Tr. 780, line 17 insert "in" after "it's"; should read "it's in general a vertical downward movement."
- Tr. 780, line 19 "airily" should be "areally"; should read "centimeters recharge areally per year."
- Tr. 781, line 20 insert "for" after "test"; should read "We didn't use the EP toxicity test for"
- Tr. 782, line 10 "at the AP 1, 2 3" should be "AT123D"; should read "leachate concentrations in the model AT123D"
- Tr. 786, line 7 insert "use" after "you"; should read "methods they use to measure distribution coefficients, you use a"
- Tr. 787, line 23 delete "are" after "values"; should read "get values that are reasonably conservative"
- Tr. 791, line 25 "fee" should be "feel"; should read "But I also feel one has to be very"
- Tr. 792, line 7 insert "in" after "be"; should read "I didn't want to be in"
- Tr. 793, line 13 "datas" should be "data"; "summarize" should be "summarized"; should read "reporoduced the table of all the data which I've summarized there,"
- Tr. 794, line 10 delete "of"; should read "positive values that Kerr-McGee got just on the basis of the"
- Tr. 794, line 21 insert a comma and "but" after "assumptions"; should read "conservative assumptions, but"
- Tr. 795, line 10 insert "of" after "amounts"; should read "amounts of cyanide there."
- Tr. 795, line 20 "displacement" should be "emplacement"; should read "would reach a peak value of 1.6 years after waste emplacement"
- Tr. 795, line 21 "of" should be "after"; should read "and then decay down to the regulatory limit after another nine"

- Tr. 799, line 6 "material" should be "materials"; should read "materials that were treated very heavily in"
- Tr. 799, line 8 "acidic" should be "acetic"; should read "even with the mild acid, the acetic acid"
- Tr. 801, line 21 delete "of"; "through", should read "if you do it really right--the same"
- Tr. 801, line 22 add "carbonate/bicarbonate balance, you pass it through a"
- Tr. 803, line 8 "silurian" should be "Silurian"
- Tr. 803, line 9 "radium 226" should be "Radium-226"
- Tr. 803, line 10 "uranium" should be "Uranium-238"; "silurian" should be "-234"; should read "Uranium-238 and probably -234."
- Tr. 805, line 3 insert "how" before "close"; should read "depending on how close they are"
- Tr. 805, line 4 "potential metric" should be "potentiometric"; should read "and how much they're pumping, the potentiometric surface and"
- Tr. 805, lines 7, 17 and 24 "silurian" should be "Silurian"
- Tr. 805, line 22 the "." after "expanding" should be a ","; "Whether" should be "whether"; should read "cone is expanding, whether that cone expands"
- Tr. 809, line 23 "AP123D" should be "AT123D"; should read "AT123D is the only code I use"
- Tr. 811, line 17 "less" should be "layers"; should read "No, if it is placed in layers and"

Respectfully submitted,

Ann P. Hodgdon
Ann P. Hodgdon
Counsel for NRC Staff

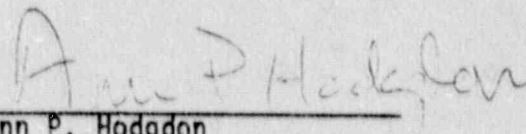
Dated at Rockville, Maryland
this 29th day of January, 1990.

Atomic Safety and Licensing Appeal
Panel (5)*
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Joseph A. Young, Jr.
Kerr-McGee Chemical Corporation
123 Robert S. Kerr Avenue
Oklahoma City, Oklahoma 73125

Stephen J. England, Esq.
Legal Chief Counsel
Illinois Department of
Nuclear Safety
Springfield, Illinois 62704

Adjudicatory File*
Atomic Safety and Licensing Board
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555



Ann P. Hodgdon
Counsel for NRC Staff