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**Environmental Management**  
Los Alamos Field Office  
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Date: March 14, 2022  
Refer To: N3B-2023-0082

Mr. Dave Cobrain  
Acting Bureau Chief  
Hazardous Waste Bureau  
New Mexico Environment Department  
2905 Rodeo Park Drive East, Building 1  
Santa Fe, NM 87505-6303

**Subject: Replacement of Enclosure 2 in the Fiscal Year 2022 Nonconformance Report, Los Alamos National Laboratory, EPA ID #NM0890010515**

Reference(s): 1. Letter EPC-DO-22-327, from K. Armijo and L. Bishop to R. Shean, "Fiscal Year 2022 Nonconformance Report, Los Alamos National Laboratory, EPA ID #NM0890010515," dated December 22, 2022

Dear Mr. Cobrain:

The U.S. Department of Energy Environmental Management Los Alamos Field Office (EM-LA) and Newport News Nuclear BWXT-Los Alamos, LLC (N3B) are submitting a replacement of Enclosure 2 to the New Mexico Environment Department Hazardous Waste Bureau (NMED-HWB) for the "Fiscal Year 2022 Nonconformance Report" (Reference 1). The original submittal contained line spacing errors that displayed cut off text. The yellow highlighted cells contained the line spacing errors; no technical content has been revised.

If you have questions, please contact Christian Maupin at (505) 695-4281 (christian.maupin@em-la.doe.gov) or Arturo Duran at (575) 373-5966 (arturo.duran@em.doe.gov).

Sincerely,

Robert Macfarlane  
Program Manager  
Environment, Safety, Health, and Quality  
N3B-Los Alamos

Sincerely,

**M Lee Bishop**

Digitally signed by M Lee Bishop  
Date: 2023.03.13 16:41:25  
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M. Lee Bishop, Director  
Office of Quality and Regulatory Compliance  
U.S. Department of Energy  
Environmental Management  
Los Alamos Field Office

Enclosure(s): Two hard copies with electronic files:

1. Replacement of Enclosure 2 in the Fiscal Year 2022 Nonconformance Report (EM2023-0123)

cc (letter and enclosure[s] emailed):

Laurie King, EPA/Region 6, Dallas, TX  
Siona Briley, NMED-HWB  
Neelam Dhawan, NMED-HWB  
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Public Reading Room (EPRR)

**Table 2: Fiscal Year 2022 Central Characterization Project Nonconformance Report – EM-LA/N3B**

Container Number(s) and Date(s) of Generation (2)	NCR Document Identification (1)	Reason Container Failed for Basis of Knowledge (1,5)	Location of Waste Generation (3)	Hazardous Waste Codes and Dates Assigned (4,6)	Status Path Forward/Resolution (7)
60489/02-11-2003	NCR-LANL0013220	The container is rejected by BOK 24 Addendum 11, due to the condition of the grout in the container (grout/cement not intact).	TA-50	D004-D011, D018, D019, D021, D022, D035, D038-D040, F001, F002, F005/ Date: 02-18-1986	Open: 60489 was overpacked into 74050. Container has cleared CCP NCR, has not completed BOK. AKA01 Add 12, will not pass BOK for grout/cement is not intact. In order to meet the BOK requirements, zeolite will be added to the container and the container will be reevaluated for WIPP certification by CCP.
93987/07-09-2013	NCR-LANL0014220	The container is rejected by BOK 24 Addendum 11, for the potential to have oxidizers sorbed in organic kitty litter (unknown liquid).	TA-50	D004-D011, D018, D019, D021, D022, D035, D038-D040, F001, F002, F005/ Date: 05-04-1981	Open: This container has the potential to contain liquids sorbed with (organic kitty litter) which does not meet the BOK requirements for WIPP certification. In order to meet the certification requirements, zeolite will be added to the container and the container will be reevaluated for WIPP certification by CCP.
56880/08-18-1998	NCR-LANL0015220	BOK 32 Addendum 2 for LA-MIN02-V.001 rejects the container identified for vermiculite being used to sorb liquid with oxidizing chemical.	TA-55 PF4	D004-D011, D018, D019, D021, D022, D035, D038-D040, F001, F002, F005/ Date: 04-29-1998	Open: The absorbent that was added (vermiculite) does not meet the BOK requirements for WIPP certification. In order to meet the certification requirements, zeolite will be added to the container and the container will be reevaluated for WIPP certification by CCP. Remediation efforts are being planned for this container.
69320/01-03-2014	NCR-LANL0016220	BOK 32 Addendum 2 for LA-MIN02-V.001 rejects the container for the possibility of oxidizing chemicals sorbed in Portland cement above limit.	TA-50	D004-D011, D018, D019, D021, D022, D035, D038-D040, F001, F002, F005/ Date: 02-10-1985	Open: overpacked into 74043. Remediation Required. In order to meet the certification requirements, zeolite will be added to the container and the container will be reevaluated for WIPP certification by CCP.
69488/02-23-2014	NCR-LANL0017220	BOK 32 Addendum 2 for LA-MIN02-V.001 rejects the container identified for the possibility of organic kitty litter used to sorb liquid with oxidizing chemicals.	TA-50	D004-D011, D018, D019, D021, D022, D035, D038-D040, F001, F002, F005/ Date: 07-25-1984	Open: This container has the potential to contain liquids sorbed with (organic kitty litter), which does not meet the BOK requirements for WIPP certification. Zeolite will be added to the container and the container will be reevaluated for WIPP certification by CCP Remediation efforts are being planned for this container.
74289 (54017, 54066)/ 05-27-2021, 77514/08-31-2021	NCR-LANL0059220	The containers contain free liquid, which is prohibited by BOK criteria. 77514 is rejected by BOK 21 Addendum 9, and 74289 is rejected by BOK 21 Addendum 10.	TA-55 PF4/TA-55 PF4	D004-D011, D018, D019, D021, D022, D035, D038-D040 F001, F002, F005/ Dates: (74289/12-10-1990) (77514/05-17-1993)	Open: In order to meet the certification requirements, zeolite will be added to these containers and the containers will be reevaluated for WIPP certification by CCP.

**Table 2: Fiscal Year 2022 Central Characterization Project Nonconformance Report – EM-LA/N3B**

Container Number(s) and Date(s) of Generation (2)	NCR Document Identification (1)	Reason Container Failed for Basis of Knowledge (1,5)	Location of Waste Generation (3)	Hazardous Waste Codes and Dates Assigned (4,6)	Status Path Forward/Resolution (7)
61818/01-08-2004, 68045/06-11-2014, 68065/06-16-2014, 68066/06-19-2014, 68883/01-14-2014, 69954/05-02-2014, 69959/05-02-2014, 69986/05-01-2014, 70502/08-18-2014, S823064/05-17-1982, S823124/05-17-1982, S824182/12-28-1982, S833506/07-12-1983, S833878/09-21-1983, S842446/02-13-1984, S843599/10-31-1984, S844570/07-25-1984, S846083/12-18-1984, S853851/08-19-1985, S855780/11-19-1985, S855782/11-19-1985, S862514/05-12-1986, S862890/07-07-1986	NCR-LANL0061221	The containers identified have been assigned HWN codes D001, D002, and D003 by the host site, which are not acceptable at WIPP. These containers were previously on NCR-LANL-0151-18.	61818/TA-55 PF4, 68045/TA-55 PF4, 68065/TA-55 PF4, 68066/TA-55 PF4, 68883/TA-55 PF4, 69954/TA-54 PF4, 69959/TA-55 PF4, 69986/TA-55 PF4, 70502/TA-55 PF4, S823064/TA-55 PF4, S823124/TA-55 PF4, S824182/TA-55 PF4, S833506/TA-55 PF4, S833878/TA-55 PF4, S842446/TA-55 PF4, S843599/TA-55 PF4, S844570/TA-55 PF4, S846083/TA-55 PF4, S853851/TA-55 PF4, S855780/TA-55 PF4, S855782/TA-55 PF4, S862514/TA-55 PF4, S862890/TA-55 PF4	D001, D004-D011, D018, D019, D021, D022, D035, D038-D040, F001, F002, F005/ Dates: (61818/01-08-2004) (68045/06-11-1985) (68065/07-29-1993) (68066/05-12-1986) (68883/10-09-1985) (69954/08-19-1985) (69959/08-25-1986) (69986/08-11-1993) (70502/07-12-1983) (S823064/05-17-1982) (S823124/05-17-1982) (S824182/12-28-1982) (S833506/07-12-1983) (S833878/09-21-1983) (S842446/02-13-1984) (S843599/10-31-1984) (S844570/07-25-1984) (S846083/12-18-1984) (S853851/08-19-1985) (S855780/11-19-1985) (S855782/11-19-1985) (S862514/05-12-1986) (S862890/07-07-1986)	Open: Remediation efforts are being planned for these containers. In order to meet the certification requirements, zeolite will be added to the container and the container will be reevaluated for WIPP certification by CCP.
93175/03-07-2013	NCR-LANL0159181	Los Alamos National Labs have assigned EPA Hazardous Waste Numbers D001, D002, and D003 to the container which does not match AK.	TA-50	D001-D011, D018, D019, D021, D022, D035, D038-D040, F001, F002, F003, F005/ Date: 10-04-1982	Open: Remediation efforts are being planned for this container. In order to meet the certification requirements, zeolite will be added to the container and the container will be reevaluated for WIPP certification by CCP.
SB02196/01-29-2014, S834497/09-20-1983, S844572/07-25-1984, 56408/01-23-1997, S835294/12-29-1983	NCR-LANL0162183	SWB SB02196 containing inner containers S834497, S844572, 56408, and S835294 has been assigned HWN codes D001, D002 and D003 by the host site, which are not acceptable at WIPP.	S834497/TA-55 PF4, S844572/TA-55 PF4, 56408/TA-55 PF4, S835294/TA-55 PF4	D001-D011, D018, D019, D021, D022, D035, D038-D040, F001, F002, F003, F005/ Dates: (SB02196/09-20-1983) (S834497/09-20-1983) (S844572/07-25-1984) (S835294/12-29-1983)	Open: Remediation efforts are being planned for these containers. In order to meet the certification requirements, zeolite will be added to the container and the container will be reevaluated for WIPP certification by CCP.
93960/07-03-2013	NCR-LANL0292210	This container was rejected for the possible use of vermiculite to absorb free liquids. The BOK does not allow the use of vermiculite (inorganic sorbent) for treating oxidizing chemicals. Per the BOK the host site is to provide additional information or treat.	TA-50	D004-D011, D018, D019, D021, D022, D035, D038-D040, F001, F002, F005/ Date: 06-02-1998	Open: The absorbent that was added (vermiculite) does not meet the BOK requirements for WIPP certification. In order to meet the certification requirements, zeolite will be added to the container and the container will be reevaluated for WIPP certification by CCP.
69049/12-06-2013	NCR-LANL0296210	This container was rejected for the potential for Polyol organic sorbents used for absorbing free liquids. Per the BOK process, it is assumed to be organic kitty litter due to time of generation.	TA-50	D004-D011, D018, D019, D021, D022, D035, D038-D040, F001, F002, F005/ Date: 09-09-1981	Open: The absorbent that was added (organic kitty litter) does not meet the BOK requirements for WIPP certification. In order to meet the certification requirements, zeolite will be added to the container and the container will be reevaluated for WIPP certification by CCP.

**Table 2: Fiscal Year 2022 Central Characterization Project Nonconformance Report – EM-LA/N3B**

Container Number(s) and Date(s) of Generation (2)	NCR Document Identification (1)	Reason Container Failed for Basis of Knowledge (1,5)	Location of Waste Generation (3)	Hazardous Waste Codes and Dates Assigned (4,6)	Status Path Forward/Resolution (7)
S835373/12-29-1983, S841293/09-23-1984, S843641/10-31-1984, S855124/10-09-1985	NCR-LANL0298210	The containers identified (previously addressed in NCR-LANL-0165-18) are currently overpacked in a SWB that has been assigned HWN codes D001, D002, and D003 by the host site, which are not acceptable at WIPP.	S835373/TA-55 PF4, S841293/TA-55 PF4, S843641/TA-55 PF4, S855124/TA-55 PF4	S835373/D008/ Date: 12-29-1983, S841293/D007, D008/ Date: 09-23-1984, S843641/D007, D008/ Date: 10-31-1984, S855124/D007, D008/ Date: 10-09-1985	Open: Remediation efforts are being planned for these containers. In order to meet the certification requirements, zeolite will be added to the container and the container will be reevaluated for WIPP certification by CCP.
62024/12-06-2005	NCR-LANL0314210	This container was rejected for the possible use of vermiculite to absorb free liquids. The BOK does not allow the use of vermiculite (inorganic sorbent) for treating oxidizing chemicals. Per the BOK the host site is to provide additional information or treat.	TA-03-0029 (CMR)	D004-D011, D018, D019, D021, D022, D035, D038-D040, F001, F002 and F005/ Date: 12-06-2005	Open: The absorbent that was added (vermiculite) does not meet the BOK requirements for WIPP certification. In order to meet the certification requirements, zeolite will be added to the container and the container will be reevaluated for WIPP certification by CCP.
53629/10-11-1988	NCR-LANL0327210	This container was rejected for the possible use of vermiculite to absorb free liquids. The BOK does not allow the use of vermiculite (inorganic sorbent) for treating oxidizing chemicals. Per the BOK the host site is to provide additional information or treat.	TA-50	D008/ Date: 02-27-2006	Open: Overpacked into LASB02227/ The absorbent that was added (vermiculite) does not meet the BOK requirements for WIPP certification. In order to meet the certification requirements, zeolite will be added to the container and the container will be reevaluated for WIPP certification by CCP.
LASB02227 (53629, 57632,92420)/ 02-26-2014	NCR-LANL0328210	The container identified (previously identified in NCR-LANL-0151-18 R2) was originally placed on a NCR due to being overpacked with other containers that had been assigned HWN codes D001, D002, and D003 by the host site, which are not acceptable at WIPP.	TA-50, TA-55 PF4, TA-50	D001-D011, D018, D019, D021, D022, D035, D038-D040, F001, F002, F003, F005/ Date: 08-23-1983	Open: Remediation efforts are being planned for these containers. In order to meet the certification requirements, zeolite will be added to the container and the container will be reevaluated for WIPP certification by CCP.
83187/09-22-2009, 86432/ 07-08-2010	NCR-LANL0329210	Container 83187 was rejected for the possible use of vermiculite to absorb free liquids. The BOK does not allow the use of vermiculite (inorganic sorbent) for treating oxidizing chemicals. Per the BOK the host site is to provide additional information or treat. Container 86432 was rejected for the potential for Polyol organic sorbents used for absorbing free liquids. Per the BOK process, is assumed that Waste Lock 770 was used as the sorbent. It is not possible to do a defensible mass balance for this container and is conservatively returned back to host site.	TA-50	D004-D011, D018, D019, D021, D022, D035, D038-D040, F001, F002, F005/ Dates:(83187/09-22-2009) (86432/03-01-1983)	Open: Container 83187 the absorbent that was added (vermiculite) does not meet the BOK requirements for WIPP certification. In order to meet the certification requirements, zeolite will be added to the container and the container will be reevaluated for WIPP certification by CCP. The unknown liquid in 86432 was potentially absorbed with polyol organic sorbents.
69349/ 01-31-2014, 94064/ 07-25-2013, LASB02201/02-11-2014	NCR-LANL0341210	Containers 69349 and 94064 were rejected for the potential to include leached solids rinsed with nitric acid. BOK24 Addendum 10 LA-MHD01.001 rejected LASB02201. The containers include homogenous solids that may be leached with nitric acid. This is outside the criteria included in the BOK.	69349/ TA-55 PF4, 94064/ TA-55 PF4, LASB02201/ TA-50	D004-D011, D018, D019, D021, D022, D035, D038-D040, F001, F002, F005 Dates: (69349/09-17-1980) (LASB02201/08-04-1981) 94064 D008 Date: 04-12-1983	Open: The unknown liquid was potentially absorbed with polyol organic sorbents. The absorbent that was added (organic kitty litter) does not meet the BOK requirements for WIPP certification. In order to meet the certification requirements, zeolite will be added to the container and the container will be reevaluated for WIPP certification by CCP.

**Table 2: Fiscal Year 2022 Central Characterization Project Nonconformance Report – EM-LA/N3B**

Container Number(s) and Date(s) of Generation (2)	NCR Document Identification (1)	Reason Container Failed for Basis of Knowledge (1,5)	Location of Waste Generation (3)	Hazardous Waste Codes and Dates Assigned (4,6)	Status Path Forward/Resolution (7)
69065/12-13-2013	NCR-LANL0342210	This container was rejected for the potential for Polyol organic sorbents used for absorbing free liquids. Per the BOK process, is assumed that Waste Lock 770 was used as the sorbent. It is not possible to do a defensible mass balance for this container and is conservatively returned back to host site. Per the BOK process, it is assumed to be organic kitty litter due to time of generation.	TA-55 PF4	D004-D011, D018, D019, D021, D022, D035, D038-D040, F001, F002, F005/ Date: 09-01-1982	Open: The unknown liquid was potentially absorbed with polyol organic sorbents. In order to meet the certification requirements, zeolite will be added to the container and the container will be reevaluated for WIPP certification by CCP.
S835294/12-29-1983	NCR-LANL0431190	The container is assigned EPA Hazardous waste numbers D001, D002, and D003 by the host site.	TA-55 PF4	D001-D011, D018, D019, D021, D022, D035, D038-D040, F001, F002, F003, F005/ Date: 12-29-1983	Open: Overpacked into LASB02196. In order to meet the certification requirements, zeolite will be added to the container and the container will be reevaluated for WIPP certification by CCP.
93551/04-24-2013	NCR-LANL0432196	The container identified has completed characterization but has Hazardous Waste codes applied to it by the host site that are not acceptable at WIPP.	TA-50	D001-D011, D018, D019, D021, D022, D035, D038-D040, F001, F002, F003, F005/ Date: 06-01-1981	Open: overpacked into 74043. No observable liquid per Real Time Radiography. However, in order to meet the certification requirements, zeolite will be added to the container and the container will be reevaluated for WIPP certification by CCP.
69026/11-21-2013, 69199/01-11-2014	NCR-LANL0452194	BOK20 for LA-MHD03.001 rejects containers 69199, 69026, for liquids sorbed in Vermiculite.	69026/TA-50, 69199/TA-50	69026/none/ Date: (69026/12-28-1981), 69199/D004-D011, D018, D019, D021, D022, D035, D038-D040, F001, F002, F005/ Date: (69199/07-25-1984)	Open: overpacked into SB02182. Remediation Required. The absorbent that was added (vermiculite) does not meet the BOK requirements for WIPP certification. In order to meet the certification requirements, zeolite will be added to the container and the container will be reevaluated for WIPP certification by CCP. In order to meet the certification requirements, zeolite will be added to the container and the container will be reevaluated for WIPP certification by CCP.
68766/01-20-2014, 68931/02-11-2014, 86669 07-22-2010, 91479/05-09-2012	NCR-LANL0453201	For the containers associated with the Basis of Knowledge Evaluation for waste stream LA-MIN03-NC.001 (BOK27) have been determined to be non-compliant or lack sufficient information to determine their status with the BOK Criteria.	TA-50, TA-50, TA-50, TA-50	D004-D011, D018, D019, D021, D022, D035, D038-D040, F001, F002, F005/ Dates: (68766/11-07-1983) (68931/02-09-1981) (86669/12-01-1980) (91479/10-04-1982)	Open: Attempt to find additional historical information to present to CCP or plan remediation for these containers.
68658/12-12-2013, 68677/11-18-2013, 68830/12-04-2013, 68984/02-25-2014, 69029/12-04-2013, 69042/12-06-2013, 69057/12-09-2013, 69059/12-09-2013, 88968/05-05-2011	NCR-LANL0457193	BOK24 for LA-MHD01.001 rejects containers 68658, 68677, 68830, 68984, 69029, 69042, 69057, 69059, 88968 for possible liquids sorbed in Vermiculite.	68658/TA-50, 68677/TA-50, 68830/TA-55 PF4, 68984/TA-55 PF4, 69029/TA-50, 69042/TA-50, 69057/TA-50, 69059/TA-50, 88968/TA-50	68658 none/ Date: 10-04-1982, 68677 none/ Date: 01-05-1981, 69042 none Date: 05-13-1985, 69059 none Date: 12-29-1982, D004-D011, D018, D019, D021, D022, D035, D038, D039, D040, F001, F002, F003, F005/ Dates: (68830/02-15-1982) (68984/08-31-1982) (69057/05-04-1981) (88968/11-09-1982), 69029 D008/ Date: 07-08-1985	Open: The absorbent that was added (vermiculite) does not meet the BOK requirements for WIPP certification. In order to meet the certification requirements, zeolite will be added to the container and the container will be reevaluated for WIPP certification by CCP.
92741/01-29-2013	NCR-LANL0461193	During the AKA review of the containers it was found that they may contain unknown salts which could be nitrate salts. (D001 waste).	TA-50	D008/ Date: 12-15-1986	Open: Overpacked into LASB02186. Evaluation of historical information to present to CCP or plan remediation for these containers.

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Container Number(s) and Date(s) of Generation (2)	NCR Document Identification (1)	Reason Container Failed for Basis of Knowledge (1,5)	Location of Waste Generation (3)	Hazardous Waste Codes and Dates Assigned (4,6)	Status Path Forward/Resolution (7)
69206	NCR-LANL0694200	This container was rejected for the potential for Polyol organic sorbents used for absorbing free liquids. Per the BOK process, it is assumed to be organic kitty litter due to time of generation.	TA-55 PF4	D004-D011, D018, D019, D021, D022, D035, D038-D040, F001, F002, F005/ Date: 06-18-1980	Open: Overpacked into 74093. The absorbent that was added (organic kitty litter) does not meet the BOK requirements for WIPP certification. In order to meet the certification requirements, zeolite will be added to the container and the container will be reevaluated for WIPP certification by CCP.
These NCRS have been resolved and closed.					
68273/02-04-2014, 68278/02-06-2014	NCR-LANL0343210	This container was lacking sufficient information to determine their status with the BOK Criteria. At initial BOK evaluation the CCP did not have sufficient source documents to complete the evaluation for the containers with respect to whether or not oxidizers were present and the type of absorbents used.	68273/TA-50, 68278/TA-50	D004-D011, D018, D019, D021, D022, D035, D038-D040, F001, F002, F005/ Dates: (68273/08-29-1984) (68278/08-29-1984)	Closed: Provided additional documentation to CCP AKEs. Currently waiting for Central Characterization Project (CCP) re-evaluation to the BOK requirements with the new information and is expected to pass.
69044/12-06-201, 69506/02-27-2014	NCR-LANL0003220	BOK 20 for LA-MHD03.001 rejects the containers identified in Block 3 for the potential to contain polyol organic sorbents (i.e. polysaccharide sorbents) with oxidizing chemicals.	69044/TA-50, 69506/TA-50	D004-D011, D018, D019, D021, D022, D035, D038-D040, F001, F002, F005/ Dates: (69044 12-30-1986) (69506 12-02-1987)	Closed: Use-As-Is 3/9/2022 (69506 overpacked into 74065) The absorbent that was added does not meet the BOK requirements for WIPP certification. In order to meet the certification requirements, zeolite will be added to the container and the container will be reevaluated for WIPP certification by CCP.
64881/02-05-2009	NCR-LANL0040220	BOK 24 Addendum 12 for LA-MHD01.001 rejects the container identified in Block 3 for nitric acid sorbed in vermiculite.	TA-55 PF4	D004-D011, D018, D019, D021, D022, D035, D038-D040, F001, F002, F005/ Date: 10-29-2008	Closed: Reject, return to host site. 8/09/2022 The absorbent that was added (vermiculite) does not meet the BOK requirements for WIPP certification. In order to meet the certification requirements, zeolite will be added to the container and the container will be reevaluated for WIPP certification by CCP.
92536/01-09-2013, 92773/12-01-2013	NCR-LANL0050220	During the AKA review of the containers in Block 3 it was found that they may contain unknown salts which could be nitrate salts, (D001 waste). Containers in Block 3 were originally addressed in NCR-LANL-0461-19.	92536/TA-50, 92773/TA-50	D008/ Dates: (92536/11-02-1981) (92773/11-03-1981)	Closed: Use-As-Is 7/13/2022 (92536 overpacked into LASB02173).

**Note:** This replacement of Enclosure 2 in the Letter EPC-DO-22-327, from K. Armijo and L. Bishop to R. Shean, "Fiscal Year 2022 Nonconformance Report, Los Alamos National Laboratory, EPA ID #NM0890010515," dated December 22, 2022. The yellow highlights identify the cells that contained the line spacing errors in the original submittal.