

~~SAFEGUARDS INFORMATION~~

DF01

NOTES:

*Please return to:
ORIGINAL*

125

SGTB:CRH
05000294010R

SEP 12 1968

ADD:

*Gloria Bennington
WF 4E4*

Michigan State University
ATTN: Mr. B. W. Wilkinson
Reactor Supervisor
College of Engineering
East Lansing, MI 48824-1326

Gentlemen:

This is in regard to your request for approval of a route to be used for transport of spent reactor fuel as contained in your letter of June 16, 1988.

The route from the Michigan State University Campus, East Lansing, Michigan to the DOE Idaho National Engineering Laboratory, Idaho Falls, Idaho, as requested in your letter, is judged to meet the regulatory requirements in accordance with 10 CFR 73.37 for shipment of spent fuel and is approved. In the event your carrier is required to deviate from the approved route, please call the contact listed on page 2 of this letter as soon as possible providing the details.

Arrangements with law enforcement agencies along the route as required by 10 CFR 73.37(a)(2) have been completed by the NRC staff. Data relating to these arrangements and a copy of the approved route are enclosed. This information is to be incorporated into your shipment plans and provided to your carrier along with instructions regarding its use.

Please note that assuring highway safety is the responsibility of the licensee and carrier and our approval is not intended to provide relief in this regard.

During seasonal periods when inclement weather with accompanying hazardous road conditions can occur with short notice, the appropriate state police should be contacted with regard to road conditions before a shipment commences.

Please note that the notification requirements of 10 CFR 73.37(f) and 73.72 for each shipment still apply. When making a notification to a governor or his designee, it should be very specific especially with regard to notification of series shipments. Written notification must designate exactly how many individual shipments are to be included. In the event the number of shipments in a series is revised, the change notification should indicate

8810040135 880912
PDR ADOCK 05000294
P FDC

Enclosure has been sanitized.

UPON REMOVAL OF ATTACHMENT THIS DOCUMENT IS:
decontrolled

Document Transmitted Herewith
Contains Safeguards Information

~~SAFEGUARDS INFORMATION~~

125

SEP 12 1988

Mr. Wilkinson

- 2 -

that it is a revision of the original notification and an increase or decrease in the number of shipments. In addition, the change notification should specify that the information for any of the shipments in the revised series may not be decontrolled until ten days after the arrival at the destination of the last shipment in that series.

Should you require additional information or have questions concerning this matter, please contact Charles Hillman of my staff at (301) 492-0488.

Sincerely,

15/ Charles E. MacDonald

Charles E. MacDonald, Chief
Transportation Branch
Division of Safeguards and
Transportation, NMSS

Enclosure:
As stated

East Lansing/Idaho Falls (125)
05000294010R

DISTRIBUTION:

w/enclosure
Docket File 50-294
Case File 50-294
Region III
Region IV
Region V

w/o enclosure
NMSS r/f
SGTB r/f
RFonner
LCrouse
GJackson
JCook
CHillman
RBurnett

PDR (Santized)

OFF: SGTB	: <i>SM</i>	: SGTB	:	:	:	:
NAME: <i>CH</i> Hillman	: <i>J</i> Cook	: <i>CM</i> MacDonald	:	:	:	:
DATE: 9/12/88	: 9/12/88	: 9/16/88	:	:	:	:

SPENT NUCLEAR FUEL ROUTE SURVEY

MICHIGAN STATE UNIVERSITY

EAST LANSING, MICHIGAN

TO

DOE IDAHO NATIONAL ENGINEERING LABORATORY

IDAHO FALLS, IDAHO

AUGUST 1988

SUMMARY OF LEA RESPONSE CAPABILITIES AND SAFE HAVENS

ROAD TRANSPORTATION ROUTE

EAST LANSING, MI TO IDAHO FALLS, ID

NOTE: Safe havens are indicated on the route strip charts by a lower case letter of the alphabet in parenthesis. These safe havens were designated by the NRC route analysis teams with the assistance of law enforcement agencies along the route, as available, for temporary refuge until appropriate assistance arrives. The basic criteria used to identify a safe haven were availability of a large parking area, nighttime lighting, where possible, and rapid law enforcement response to the safe haven.

Should a safe haven be required, refer to the following state summaries for specific identification and location.

ROAD TRANSPORTATION ROUTE

EAST LANSING, MICHIGAN TO IDAHO FALLS, IDAHO

MICHIGAN

1.	Wilson, Harrison and Trowbridge Rds. west to US-127*	2.0 miles
2.	US-127 south to I-96*	3.0 miles
3.	I-96 west to Temp. I-69	8.0 miles
4.	Temp. I-69 south to I-69	11.0 miles
5.	I-69 south to Indiana state line	61.0 miles
	Subtotal	<u>85.0 miles</u>

INDIANA

6.	I-69 south to I-80	1.0 mile
7.	I-80 west to Illinois state line	144.0 miles
	Subtotal	<u>145.0 miles</u>

ILLINOIS

8.	I-80 west to I-280	162.0 miles
9.	I-280 west to Iowa state line	18.0 miles
	Subtotal	<u>180.0 miles</u>

IOWA

10.	I-280 west/north to I-80	9.0 miles
11.	I-80 west to I-680	261.0 miles
12.	I-680 west to I-29	15.0 miles
13.	I-29 south to I-680	9.0 miles
14.	I-680 west to Nebraska state line	5.0 miles
	Subtotal	<u>299.0 miles</u>

NEBRASKA

15.	I-680 west I-80	13.0 miles
16.	I-80 west to Wyoming state line	452.0 miles
	Subtotal	<u>465.0 miles</u>

WYOMING

17.	I-80 west to Utah state line	404.0 miles
-----	------------------------------	-------------

UTAH

18.	I-80 west to I-84	29.0 miles
19.	I-84 north to I-15	35.0 miles
20.	I-15 north to Idaho state line	56.0 miles
	Subtotal	<u>120.0 miles</u>

IDAHO

21.	I-15 north to US-26	92.0 miles
22.	US-26 north/west to US-20*	34.0 miles
23.	US-20 west to Idaho National Laboratory*	3.5 miles
	Subtotal	<u>129.5 miles</u>

Total Distance 1,827.5 miles

*Access to or exit from Interstate or State Preferred Routes.

FOOD AND FUEL STOPS

EAST LANSING, MI TO IDAHO FALLS, ID

The businesses and locations listed below were identified by the NRC route analysis teams as possible food and fuel stops. All possible stops along the route are not listed. Only a few of the locations were visited by the NRC teams. In order to be listed, food and fuel stops were required to be close to the route.

MICHIGAN

None identified. There are multiple truck, food and service areas along the route.

INDIANA

1. Martin Service Center. I-69, Indiana exit, Steuben County.
2. Union 76 Auto/Truck Stop. I-80, Indiana Tollroad, milemarker (mm) 144, Angola exit, Steuben County.
3. Service Plazas. Located on I-80, Indiana Tollroad, at mm 153, 126, 90, 55 and 22.

ILLINOIS

The vehicles will be under continuous escort as the route goes through heavily populated areas. No specific food and fuel stops have been identified. There are multiple truck, food and service oases along the tollway.

IOWA

1. Standard and Union 76 Truck Stops. I-80, exit 284, Walcott, Scott County.
2. Skelly Truck Stop. I-80, exit 242, Johnson County.
3. Union 76 Truck Stop. I-80, exit 143, Des Moines, Polk County.
4. Apco Truck Stop. I-80, exit 93, Stuart, Adair County.
5. Verland Plazas Skelly Truck Stop and Warin Oil Co/Conocco Truck Stop. I-80, exit 60, Atlantic, Cass County.

NEBRASKA

1. Sapp Brothers Truck Stop/Phillips 66. I-80, exit 440, Sarpy County.
2. Greenwood Truck Plaza/Standard Oil. I-80, exit 420, Cass County.
3. Grant's Truck and car Stop. I-80, exit 363, York County.
4. Bosselman's Truck Plaza/Standard Oil. US-34 at I-80, Grand island, Hall County.

FOOD AND FUEL STOPS (Continued)NEBRASKA (Continued)

5. Wood River Truck Plaza/Skelly Oil. I-80, exit 300, Wood River, Hall County.
6. Multiple Truck Stops. I-80, North Platte, Lincoln County.
7. Union 76 Truck Stop. I-80, exit 126, Ogallala, Keith County.

WYOMING

1. Truck Stop. I-80 milemarker (mm) 388, Antelope, Laramie County.
2. Multiple Truck Stops. Cheyenne, Laramie County.
3. Truck Stop. I-80, Walcott exit, Carbon County.
4. Multiple Truck Stops. I-80, Rawlins, Carbon County.
5. Multiple Truck Stops. I-80, Rock Springs, Sweetwater County.

UTAH

1. Flying J Truck Stop. Ogden, I-80/15, 21st Street exit, Weber County.
2. Cross Roads Truck Stop. Near Tremonton, I-15, 2 miles north of I-80/15 split, Box Elder County.

IDAHO

1. Flags West Truck Stop. I-15, mm 31, Melad City, Oneida County.
2. Paris Truck Stop. I-15, exit 67, Pocatello, Bannock County.

Statewide Emergency Number: 911

Statewide Emergency Number: (317) 232-8248

EAST LANSING
 SP (517) 337-6100
 SP 800-555-2525

Comm: MT CH 9, R CH 9

LEA: SP

	MI				IN		
	MSU Campus						
	East Lansing						
MILES IN JURISDICTION	*1*2	*3	*4	*5			*6*7
		Ingham County		Eaton County	Calhoun County	Branch County	Steuben County
		10		28	25	22	18
TOTAL MILES	0		10	38	63		85
							103



KEY

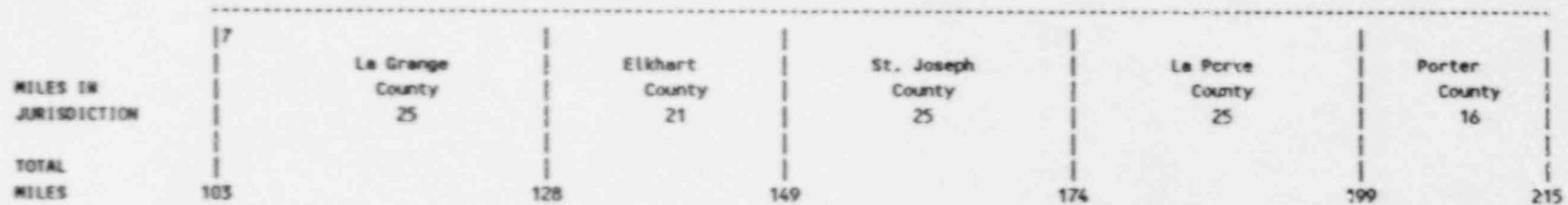
• LEA Response Center
 HP/SP Highway Patrol/State Police
 S Sheriff
 CP City Police
 C*P County Police
 CB Radio Monitored (Base)
 CB Radio Monitored (Car)
 CH/Wo. Channel Monitored
 R React Group
 MT Mobile Telephone (Useable)
 E Escort Required

ROAD TRANSPORTATION ROUTE - Michigan State University, East Lansing, MI to DOE
 ID National Engineering Laboratory, Idaho Falls, ID

*01. Wilson, Harrison and Troubridge Roads to US-127 (2 miles);
 *02. US-127 south to I-96 (3 miles);
 *03. I-96 west to Temporary I-69 (8 miles);
 *04. Temporary I-69 southwest to I-69 (11 miles);
 *05. I-69 south to Indiana state line (61 miles);
 *06. I-69 south to I-80 (1 mile);
 *07. I-80 west to Illinois state line (144 miles);



Statewide Emergency Number: (317) 232-8248

Comm: HT  CH 9 HT  CH 9
 LEA: SP



KEY

ROAD TRANSPORTATION ROUTE - Michigan State University, East Lansing, MI to DOE ID National Engineering Laboratory, Idaho Falls, ID

- LEA Response Center
- HP/SP Highway Patrol/State Police
- S Sheriff
- CP City Police
- C+P County Police
-  CB Radio Monitored (Base)
-  CB Radio Monitored (Car)
- CH/No. Channel Monitored
- R React Group
- MT Mobile Telephone (Useable)
- E Escort Required

07. I-80 west to Illinois state line (144 miles);

Statewide Emergency Number: (317) 232-8248

Statewide Emergency Number: 911

LOWELL
SP (219) 696-6242

ILSP DIST. 15 - TOLLWAY
SP (312) 574-2000

JOLIET
SP (815) 726-6291

LASALLE
SP (815) 224-1150

Comm: MT CH 9

MT CH 9, R

MT CH 9, R

MT CH 9, R

LEA: SP

SP

SP

SP

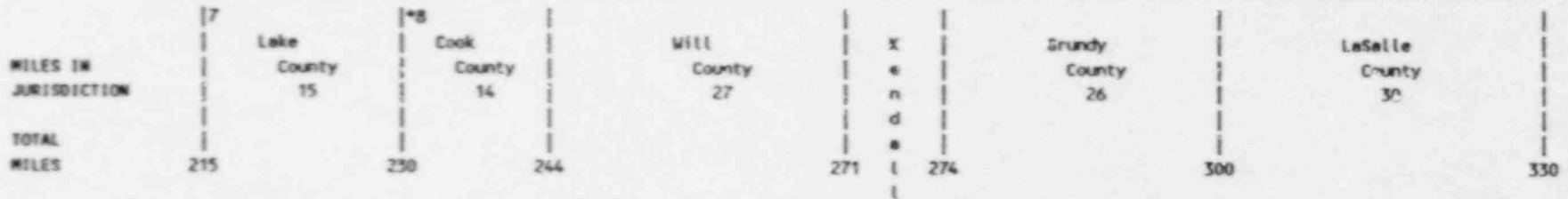
•Lowell
(off route)
E •Gary

IN | IL

E

E •Joliet

•LaSalle



KEY

- LEA Response Center
- HP/SP Highway Patrol/State Police
- S Sheriff
- CP City Police
- CP County Police
- CB Radio Monitored (Base)
- CB Radio Monitored (Ca)
- CH/Wo. Channel Monitored
- R React Group
- MT Mobile Telephone (Useable)
- E Escort Required

ROAD TRANSPORTATION ROUTE - Michigan State University, East Lansing, MI to JOE ID National Engineering Laboratory, Idaho Falls, ID

- 07. I-80 west to Illinois state line (144 miles);
- 08. I-80 west to I-280 (162 miles);

Statewide Emergency Number: 911

EAST MOLINE Rock Island
 SP (309) 755-0428 SP (309) 755-0428

Comm:

MT CH 9, R MT CH 9, R

LEA:

SP SP

E East Moline IL IA
 E Rock Island



KEY

-
- * LEA Response Center
- HP/SP Highway Patrol/State Police
- S Sheriff
- CP City Police
- CP County Police
- CB Radio Monitored (Base)
- CB Radio Monitored (Car)
- CR/No. Channel Monitored
- R React Group
- MT Mobile Telephone (Useable)
- E Escort Required



ROAD TRANSPORTATION ROUTE - Michigan Street University, East Lansing, MI to DOE ID National Engineering Laboratory, Idaho Falls, ID

- 08. I-80 west to I-280 (162 miles);
- *09. I-280 west to Iowa state line (18 miles);

Statewide Emergency Number: 1-800-525-5555

DAVENPORT
SP (319) 359-0388

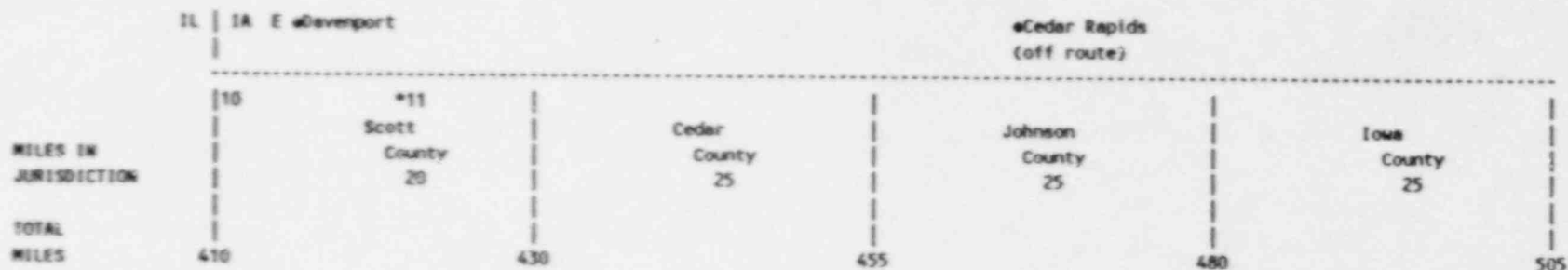
CEDAR RAPIDS
SP (319) 396-4414

Comm: MT   CH 9, R



MT   CH 9

LEA: SP

SP



KEY

- * LEA Response Center
- HP/SP Highway Patrol/State Police
- S Sheriff
- CP City Police
- C*P County Police
-  CB Radio Monitored (Base)
-  CB Radio Monitored (Car)
- CH/No. Channel Monitored
- R React Group
- MT Mobile Telephone (Useable)
- E Escort Required

ROAD TRANSPORTATION ROUTE - Michigan State University, East Lansing, MI to DOE
ID National Engineering Laboratory, ID Falls, ID

- *10. I-280 west/north to I-80 (9 miles);
- *11. I-80 west to I-680 (261 miles);

125

IOWA

Statewide Emergency Number: 1-800-525-5555

DES MOINES
SP (515) 281-5114

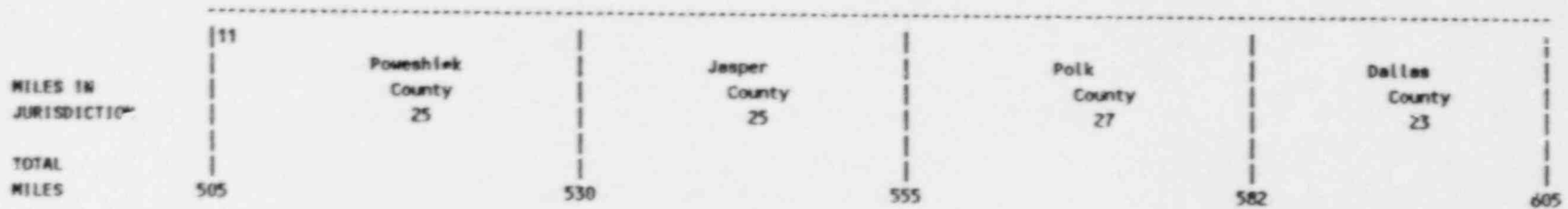
Comm:

MT   CH 9, R

LEA:



SP

E • Des Moines



KEY

ROAD TRANSPORTATION ROUTE - Michigan State University, East Lansing, MI to DOE
ID National Engineering Laboratory, Idaho Falls, ID

- LEA Response Center
- HP/SP Highway Patrol/State Police
- S Sheriff
- CP City Police
- C/P County Police
-  CB Radio Monitored (Base)
-  CB Radio Monitored (Car)
- CH/No. Channel Monitored
- R React Group
- MT Mobile Telephone (Useable)
- E Escort Required

11. I-80 west to I-680 (261 miles);

Statewide Emergency Number: 1-800-525-5555

ATLANTIC
SP (712) 243-3854

Comm:

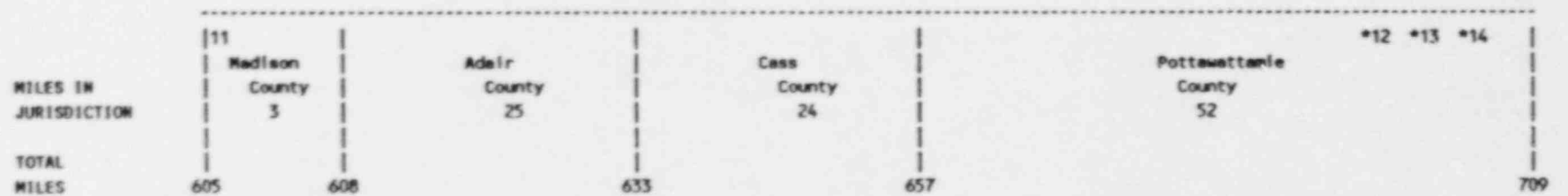
CH 9

LEA:

SP

Atlantic
(off route)

IA | NE



KEY

- LEA Response Center
- HP/SP Highway Patrol/State Police
- S Sheriff
- CP City Police
- C*P County Police
- CB Radio Monitored (Base)
- CB Radio Monitored (Car)
- CH/No. Channel Monitored
- R Resct Group
- MT Mobile Telephone (Useable)
- E Escort Required

ROAD TRANSPORTATION ROUTE - Michigan State University, East Lansing, MI to DOE ID National Engineering Laboratory, Idaho Falls, ID



- 11. I-80 west to I-680 (261 miles);
- *12. I-680 west to I-29 (15 miles);
- *13. I-29 south to I-680 (9 miles);
- *14. I-680 west to Nebraska state line (5 miles);

NEBRASKA

Statewide Emergency Number: 1-800-525-5555

OMAHA
HP (402) 331-3333

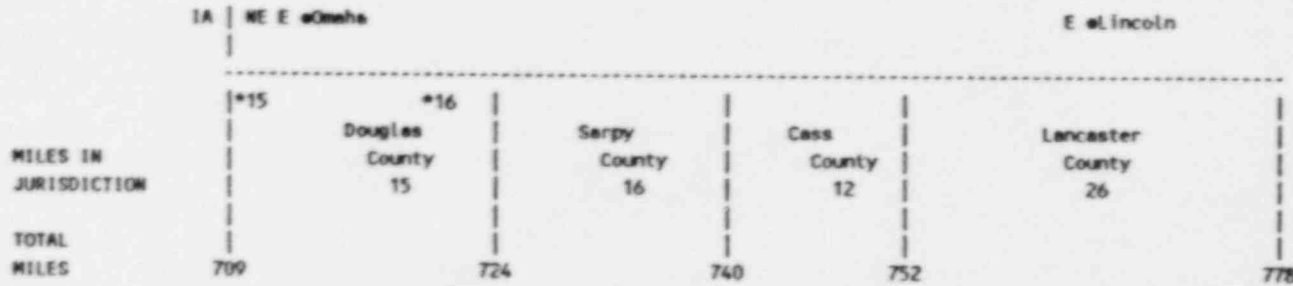
Lincoln
HP (402) 471-4545

Comm: MT   CH 9



MT   CH 9, R

LEA: HP

HP



KEY

-
- LEA Response Center
- HP/SP Highway Patrol/State Police
- S Sheriff
- CP City Police
- C*P County Police
-  CB Radl. Monitored (Base)
-  CB Radio Monitored (Car)
- CH/No. Channel Monitored
- R React Group
- MT Mobile Telephone (Useable)
- E Escort Required

ROAD TRANSPORTATION ROUTE - Michigan State University, East Lansing, MI to DOE ID National Engineering Laboratory, Idaho Falls, ID

- *15. I-680 west to I-80 (13 miles);
- *16. I-80 west to Wyoming state line (452 miles);

125

NEBRASKA

Statewide Emergency Number: 1-800-525-5555

GRAND ISLAND
HP (308) 382-8962

Comm.

MT   CH 9



LEA:

HP

● Grand Island
(e)(f)(off route)(g)

MILES IN JURISDICTION	16	Seward County 25	York County 24	Hamilton County 25	Hall County 25	Buffalo County 37
TOTAL MILES	778	803	827	852	877	914

KEY

- LEA Response Center
- HP/SP Highway Patrol/State Police
- S Sheriff
- CP City Police
- C*P County Police
-  CB Radio Monitored (Base)
-  CB Radio Monitored (Car)
- CH/No. Channel Monitored
- R React Group
- MT Mobile Telephone (Useable)
- E Escort Required

ROAD TRANSPORTATION ROUTE - Michigan State University, East Lansing, MI to DOE
ID National Engineering Laboratory, Idaho Falls, ID

16. I-80 west to Wyoming state line (452 miles);

Statewide Emergency Number: 1-800-525-5555

NORTH PLATTE
 HP (308) 532-3430
 S (308) 532-2468

Comm:

MT  CH 9, R

LEA:



HP, S

North Platte



KEY

ROAD TRANSPORTATION ROUTE - Michigan State University, East Lansing, MI to DOE
 ID National Engineering Laboratory, Idaho Falls, ID

-
- LEA Response Center
- HP/SP Highway Patrol/State Police
- S Sheriff
- CP City Police
- C*P County Police
-  CB Radio Monitored (Base)
-  CB Radio Monitored (Car)
- CH/No. Channel Monitored
- R React Group
- MT Mobile Telephone (Useable)
- E Escort Required

16. I-80 west to Wyoming state line (452 miles);

Statewide Emergency Number: 1-800-525-5555

OGALLALA
S (308) 284-3641

SIDNEY
HP (308) 254-4669
(8 a.m. to 5 p.m. only)

Scottsbluff
HP (308) 632-1211
(24 hours)

Comm:

MT   CH 9

LEA:

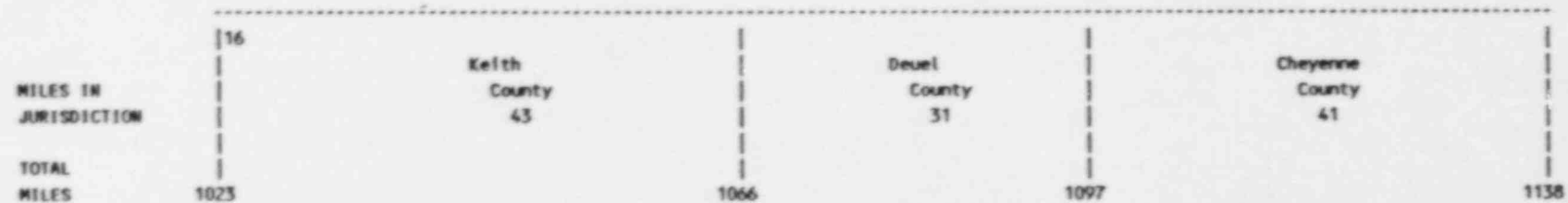
S

HP

•Opallala



•Sidney

•Scottsbluff
(off route)



KEY

ROAD TRANSPORTATION ROUTE - Michigan State University, East Lansing, MI to DOE
ID National Engineering Laboratory, Idaho Falls, ID

- LEA Response Center
- HP/SP Highway Patrol/State Police
- S Sheriff
- CP City Police
- C+P County Police
-  CB Radio Monitored (Base)
-  CB Radio Monitored (Car)
- CH/No. Channel Monitored
- R React Group
- MT Mobile Telephone (Useable)
- E Escort Required


16. I-80 west to Wyoming state line (452 miles);

Statewide Emergency Number: 1-800-525-5555

Statewide Emergency Number: 1-800-442-9090

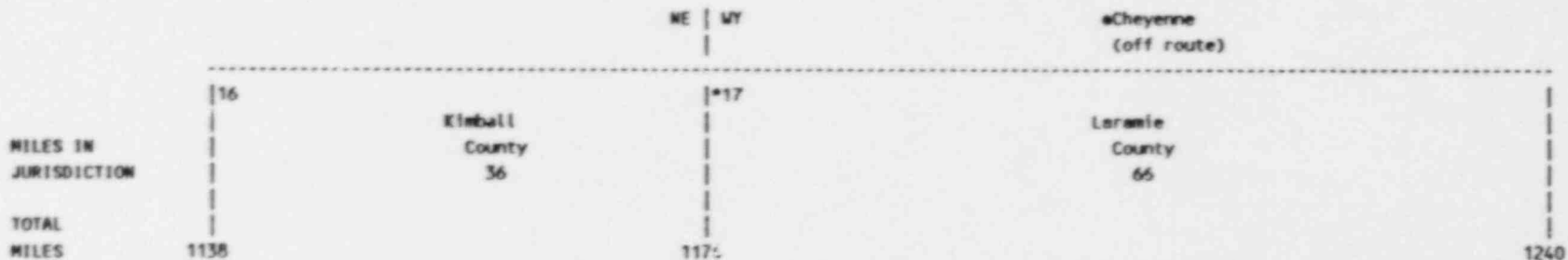
CHEYENNE
 HP (307) 777-7301
 S (307) 778-3700

Comm:



MT  CH 9/19, R CH 9/13/19

LEA:

HP, S



KEY

- * LEA Response Center
- HP/SP Highway Patrol/State Police
- S Sheriff
- CP City Police
- C*P County Police
-  CB Radio Monitored (Base)
-  CB Radio Monitored (Car)
- CH/No. Channel Monitored
- R React Group
- MT Mobile Telephone (Useable)
- E Escort Required


ROAD TRANSPORTATION ROUTE - Michigan State University, East Lansing, MI to DOE
 ID National Engineering Laboratory, Idaho Falls, ID

- 16. I-80 west to Wyoming state line (452 miles);
- *17. I-80 west to Utah (404 miles);

Statewide Emergency Number: 1-800-442-9090

LARAMIE
 HP (307) 742-6695
 S (307) 721-2325

RAWLINS
 HP (307) 324-5345
 S (307) 324-2776

Comm:  CH 9/19, R

MT  CH 9/19, R

LEA: HP, S

HP, S



•Laramie

•Rawlins



KEY

ROAD TRANSPORTATION ROUTE - Michigan State University, East Lansing, MI to DOE
 ID National Engineering Laboratory, Idaho Falls, ID

- LEA Response Center
- HP/SP Highway Patrol/State Police
- S Sheriff
- CP City Police
- C*P County Police
-  CB Radio Monitored (Base)
-  CB Radio Monitored (Car)
- CH/No. Channel Monitored
- R React Group
- MT Mobile Telephone (Useable)
- E Escort Required

17. I-80 west to the Utah state line (404 miles);


Statewide Emergency Number: None

ECHO
HP (801) 289-3122

OGDEN
HP (801) 479-9290

BRIGHAM CITY
S (801) 734-9441

TREMONTON
S (801) 734-9441

Comm:  CH 9/19

MT  CH 9/19, R

 CH 9, R

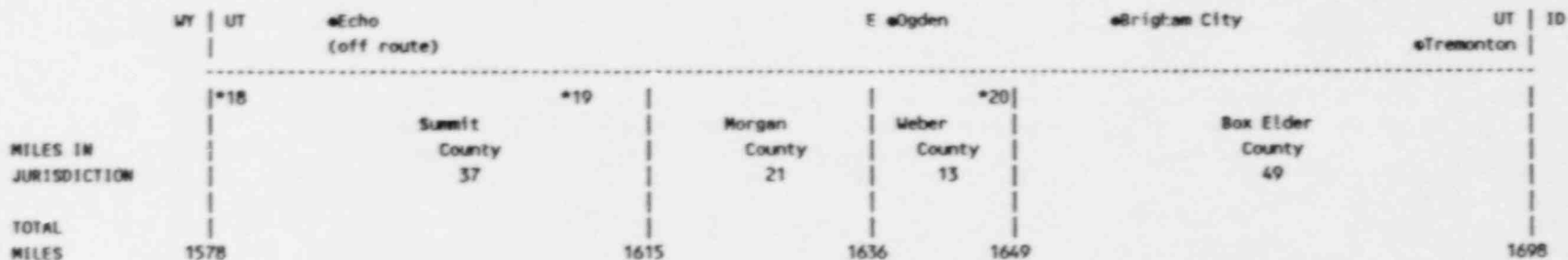
MT  CH 19/9

LEA: HP



HP

 CH 19/9
HP, S

HP



KEY

- LEA Response Center
- HP/SP Highway Patrol/State Police
- S Sheriff
- CP City Police
- C*P County Police
-  CB Radio Monitored (Base)
-  CB Radio Monitored (Car)
- CH/Wo. Channel Monitored
- R React Group
- MT Mobile Telephone (Useable)
- E Escort Required

ROAD TRANSPORTATION ROUTE - Michigan State University, East Lansing, MI to DOE
ID National Engineering Laboratory, Idaho Falls, ID

- *18. I-80 west to I-80N/84 (29 miles);
- *19. I-80N/84 north to I-15 (35 miles);
- *20. I-15 north to the Idaho state line (56 miles);

Statewide Emergency Number: None

POCATELLO
SP (208) 232-1426

IDAHO FALLS
SP (208) 522-5141

Comm:

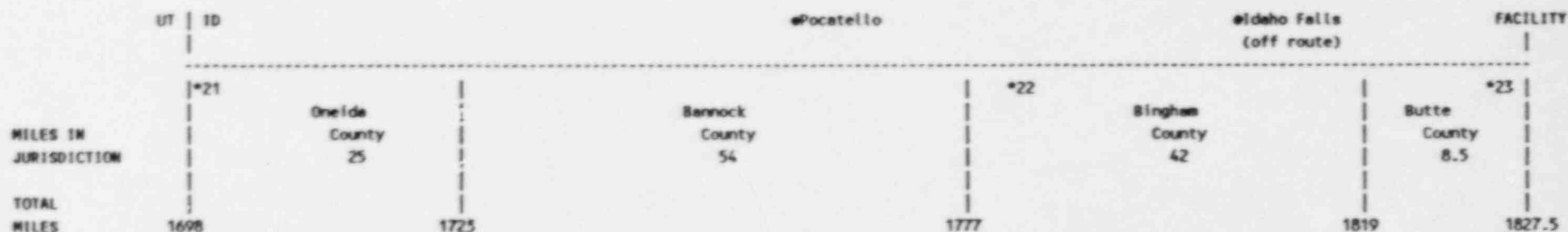
MT   CH 9/19

  CH 9/19, R



LEA:

SP

SP



KEY

- LEA Response Center
- HP/SP Highway Patrol/State Police
- S Sheriff
- CP City Police
- C*P County Police
-  CB Radio Monitored (Base)
-  CB Radio Monitored (Car)
- CH/No. Channel Monitored
- R React Group
- MT Mobile Telephone (Useable)
- E Escort Required

ROAD TRANSPORTATION ROUTE - Michigan State University, East Lansing, MI to DOE ID National Engineering Laboratory, Idaho Falls, ID

- *21. I-15 north to US-26 (92 miles);
- *22. US-26 north/west to US-20 (34 miles); and
- *23. ~~US-20~~ west to Idaho National Engineering Laboratory (3.5 miles).