



SunZia Southwest
Transmission Project



January 10, 2017
Winkelman, AZ

SunZia Plan of Development (POD) Meeting
Winkelman & Redington Natural Resource
Conservation Districts

Agenda

1. Introductions
2. Purpose of Meeting (Wray)
3. SunZia Background (Wray)
4. Plan of Development (POD) Preparation: Major Activity and Schedule (Wray)
5. POD Review Process (Wray)
6. Preliminary Engineering (Etherton)
7. Geotechnical Investigation (Etherton)
8. Discussion (All)
9. Adjourn & Lunch

Purpose of Meeting

Compliance with Condition No. 7 of the SunZia Certificate of Environmental Compatibility, approved by the Arizona Corporation Commission on February 22, 2016 (Decision No. 75464)

7. “The Applicant shall work with a representative designated by the Redington Natural Resources Conservation District and the Winkelman Natural Resources Conservation District (Collectively, the “NRCDs”) to develop and implement the Project POD provisions regarding the fields of land, soil, water and natural resources management within the boundaries of the NRCDs during construction and maintenance activities within the NRCDs’ respective area boundaries. Areas of concern to the NRCDs are minimizing soil disturbance requiring, where possible and technically feasible, overland access and/or aerial construction; utilization of existing roads for construction and maintenance activities, where possible; determination of best management practices for re-vegetation following conclusion of construction activities within the NRCDs; determination of best management practices for erosion control during construction and maintenance activities; and dust abatement and other similar areas where the NRCDs’ designated representatives have special knowledge of the fields of land, soil, water and natural resources management within the boundaries of each NRCD relevant to the development of the POD. Where the Project is located within the NRCDs’ district boundaries, but also on Arizona State Trust Lands, all proposed POD provisions developed pursuant to this Condition will be subject to consent and approval of the ASLD. Where the Project is located within the NRCDs’ boundaries but also on BLM- administered lands, all proposed POD provisions developed pursuant to this condition will be subject to the consent and approval of the BLM.” (Page 7)

Exhibit B Right-of-Way Grant NM - 114438

SunZia Southwest Transmission Project

Map 1 of 3



SunZia Southwest Transmission Project Features

500 kV Transmission Line Right-of-Way

- Route Group 1
- Route Group 3
- Route Group 4

- Proposed SunZia 500 kV Substation Site
- Other 500 kV Substation
- Mitigation Proposal Segment (buried transmission line)

General Reference Features

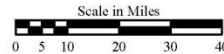
- City
- State Highway
- U.S. Highway
- Interstate
- Lake/Reservoir

Land Ownership

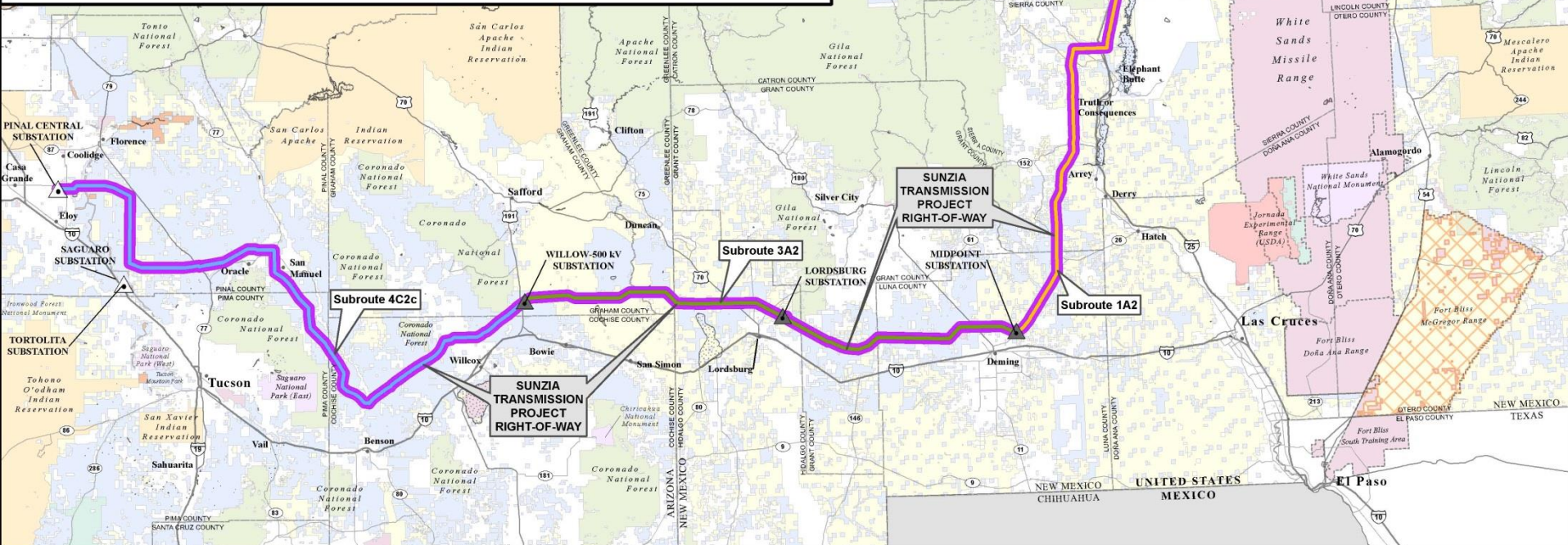
- Bureau of Land Management
- U.S. Department of Defense
- McGregor Range Withdrawal
- National Park Service
- U.S. Forest Service
- U.S. Fish and Wildlife Service
- U.S. Bureau of Reclamation
- Federal (Other)
- Indian Reservation
- State
- Private/Other

Sources

Arizona Bureau of Land Management 2010
Arizona State Land Department and ALRIS 2010
New Mexico Bureau of Land Management 2013
Esri StreetMap 2010
Environmental Planning Group LLC. 2014



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SunZia Right-of-Way & Construction

PROJECT DESCRIPTION

- ⚡ Federal and Arizona approval of two 500kV lines
- ⚡ Total Project route: 515 miles from Pinal County, AZ to Lincoln County, NM
- ⚡ Arizona portion of route: 198 miles from Pinal County to AZ/NM State line
- ⚡ Substations in Arizona
 - » Willow-500 kV, (new)
 - » Pinal Central (existing)

ROW ACQUISITION

- ⚡ BLM Right-of-Way Grant executed September 2016; annual lease payments have commenced
 - » 50 miles on BLM lands in Arizona
- ⚡ Seeking right-of-way from Arizona State Land Department and private landowners
 - » 134 miles on ASLD land
 - » 16 miles on private land

PHASE 1 CONSTRUCTION

- ⚡ First 515-mile 500 kV AC transmission line: Pinal Central to SunZia East
- ⚡ Willow-500 kV Substation

SunZia Schedule and Milestones

Completed

- ROW Application submitted to BLM September 11, 2008
- DEIS/DPOD published May 2012
- FEIS published June 2013
- ROD signed January 2015
- Arizona Corporation Commission Certificate of Environmental Compatibility Issued February 22, 2016
- BLM ROW Grant issued September 1, 2016

Upcoming

- Final BLM POD approval target – November 2017
- Notice to Proceed (NTP) approval target – December 2017
- Construction 2018-2020
- Operation starting December 2020
 - Production tax credits for wind energy are driving project schedule

Plan of Development Outline

1. Introduction
2. Project Management
3. Project Components
4. Project Construction
5. Operation and Maintenance
6. Mitigation of Environmental Concerns

Appendix A - Construction Considerations

Appendix B - Biological Considerations

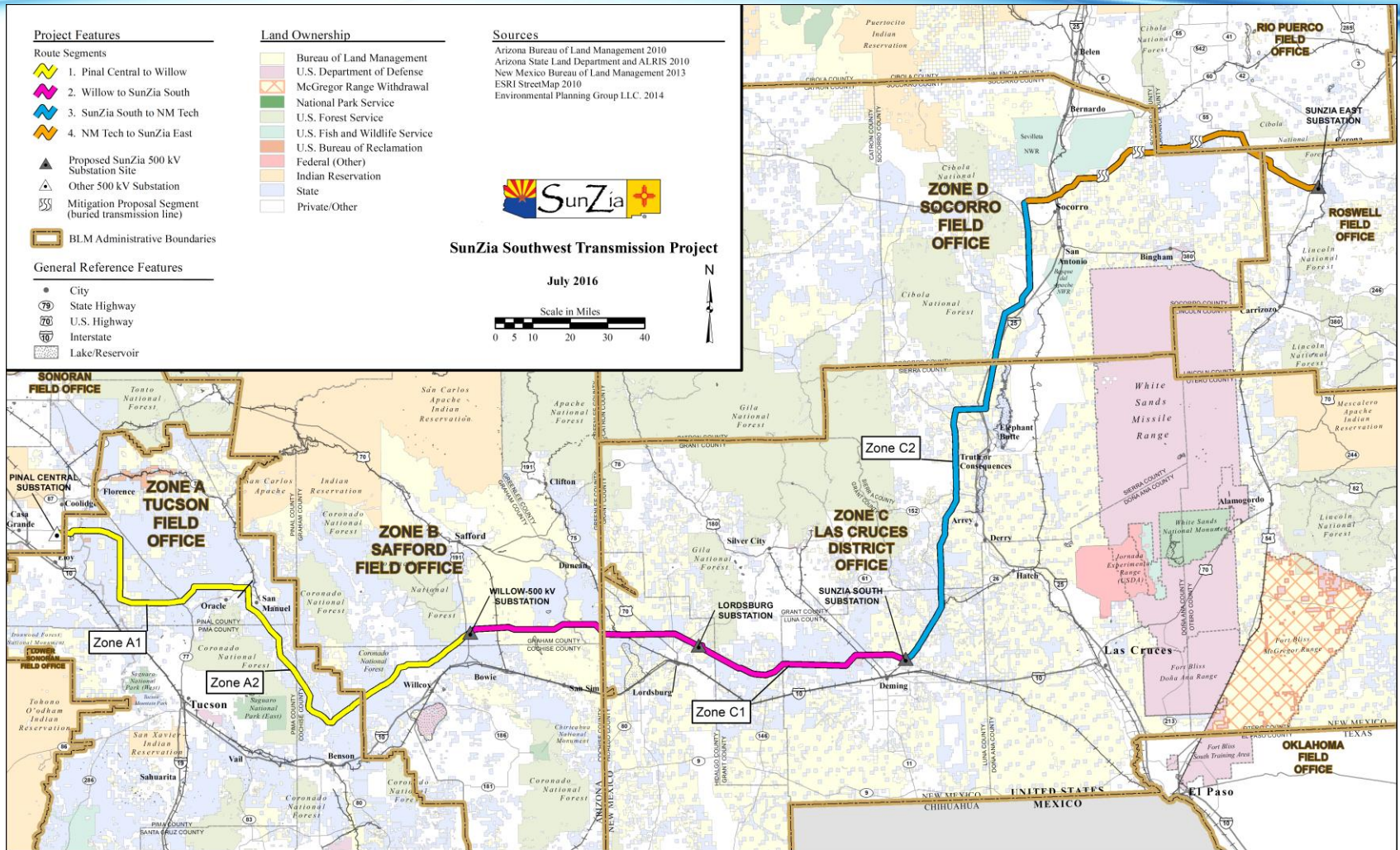
Appendix C - Cultural and Paleontological Considerations

Appendix D - Other Special Resource Considerations and Mitigation Measures

Appendix E - Stormwater Pollution and Prevention Plan

Appendix F - Right-of-Way Preparation, Reclamation, and Monitoring Framework Plan

POD will be Developed by Zones



Important POD Activities

Project Initiation

- POD Kick-off Meeting with BLM– September 29, 2016
- Initial Engineering – October 2016 to January 2017

Resource Field Surveys

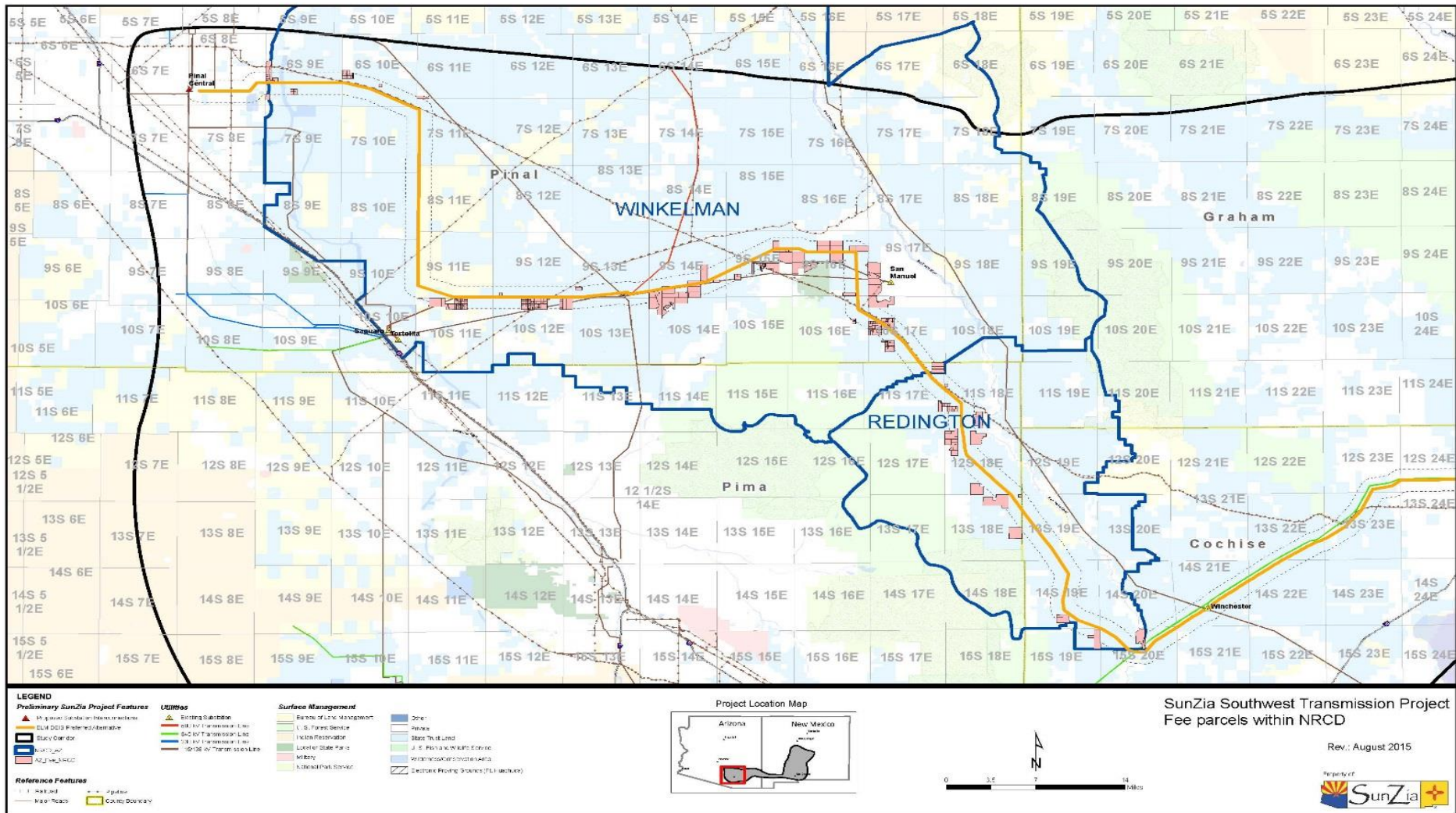
- Cultural Resources Class III – October 2016 to March 2017
- Biological Resources – October 2016 to February 2017
- Paleontological Resources – November 2016 to January 2017
- Jurisdictional Delineation – October 2016 to February 2017
- BLM and Agencies Review Resource Survey Reports – February to August 2017

Plan Of Development

- Update Preliminary POD, Prepare Draft POD (Volume I)
- Prepare Draft POD (Volume II)

Notice to Proceed from BLM: December 2017

WNRCD & RNRCD Boundaries and the SunZia Project



Schedule for NRCD Review of Preliminary Draft POD Pursuant to CEC Condition No. 7

- 1/10/2017: NRCD-SunZia Initial meeting at Central Arizona College – Aravaipa Campus; SunZia and NRCD Point of Contact communications are ongoing
- 2/28/2017: SunZia provides Preliminary Draft POD information relevant to WNRCD and RNRCD geographical boundaries; work together to develop recommendations for the Preliminary Draft POD
- 3/31/2017: SunZia receives input on Preliminary Draft POD from NRCD POC

Preliminary Engineering – 30% Design

- *BMcD* - Transmission line modeling in PLS-CADD program based on terrain models (LiDAR and aerial imagery), design criteria (tower types, tower spacing, conductors, NESC clearances), and known avoidance areas
- Transmission line tower spotting that is “optimized” as highest priority for the 10% level (to allow for access and survey work to be coincident)
- *Kiewit* - focusing on access and temporary disturbance (pull sites, laydown)
- Phased approach by Field Office zones coordinated with overall POD team
- Make adjustments to tower locations and required access from Class 3 or other constructability issues reviewed after 10% spotting
- Targeting completion of 30% design following all Class III survey work no later than Q2 2017
- Initiate final design in Q4 2017 – will include final tower designs, and foundation design based on geotechnical data

Preconstruction Geotechnical Surveys

- Desktop geotechnical analysis being completed by Field Office zones (by *Terracon* following initial tower spotting)
- Geotechnical bore samples will be needed to finalize foundation designs (Q1-Q2 2017)
- The Boring Plan will be developed based on desktop analysis, locations of self-supporting structures (dead-end towers, monopoles, etc.) and access. Boring Plan to be drafted over the next few months by FO/Zone, following resource surveys

Preconstruction Geotechnical Surveys

Boring Plan (example)

UG SEGMENT	LAND OWNER	BORE NUMBER	DEPTH OF BORE (ft)	TR DEPTH (ft)	TR DEPTH (ft)	TR DEPTH (ft)	LATITUDE	LONGITUDE
Western	NMSLO	A	30	5	10	15	34°10'35.72"N	106°40'47.81"W
Western	BLM	B	20	5	10		34°10'39.98"N	106°40'40.49"W
Western	BLM	C	20	5	10		34°10'49.73"N	106°40'27.19"W
Western	PRIVATE	D	20	5	10		34°11'0.40"N	106°40'13.31"W
Western	PRIVATE	E	30	5	10	15	34°11'9.24"N	106°39'59.01"W
Western	BLM	E2 (E ALTERNATE)	30	5	10	15	34°11'26.81"N	106°39'34.92"W
Central	PRIVATE	F	30	5	10	15	34°16'35.04"N	106°30'49.71"W
Central	PRIVATE	G	20	5	10		34°16'26.88"N	106°30'34.57"W
Central	PRIVATE	H	20	5	10		34°16'17.36"N	106°30'19.46"W
Central	PRIVATE	I	20	5	10		34°16'13.00"N	106°30'1.12"W
Central	PRIVATE	J	20	5	10		34°16'8.90"N	106°29'42.71"W
Central	BLM	J2 (J ALTERNATE)	20	5	10		34°16'8.21"N	106°29'39.88"W
Central	BLM	K	20	5	10		34°16'4.71"N	106°29'24.22"W
Central	BLM	L2 (L ALTERNATE)	20	5	10		34°16'1.31"N	106°29'9.49"W
Central	NMSLO	L	20	5	10		34°16'0.56"N	106°29'5.85"W
Central	NMSLO	M	30	5	10	15	34°15'56.32"N	106°28'47.94"W
Eastern	NMSLO	N	30	5	10	15	34°17'30.93"N	106°14'22.64"W
Eastern	NMSLO	O	20	5	10		34°17'41.03"N	106°14'9.45"W
Eastern	NMSLO	P	20	5	10		34°17'50.72"N	106°13'55.75"W
Eastern	NMSLO	Q	20	5	10		34°17'57.79"N	106°13'39.50"W
Eastern	NMSLO	R	20	5	10		34°18'4.88"N	106°13'23.20"W
Eastern	NMSLO	S	20	5	10		34°18'8.64"N	106°13'5.85"W
Eastern	NMSLO	T	20	5	10		34°18'9.29"N	106°12'47.52"W
Eastern	NMSLO	U	30	5	10	15	34°18'10.01"N	106°12'29.34"W

ADDITIONAL ITEMS TO DISCUSS?



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