

**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
Oregon State Office  
P.O. Box 2965  
Portland, OR 97208**

**In Reply Refer to:**

1601/2860/9600 (OR-958.1) P

December 15, 2003

EMS TRANSMISSION 12/15/2003

Instruction Memorandum No. OR-2004-031

Expires: 9/30/2005

To: All District Managers

From: State Director

Subject: Communication Site Management Plans

DD: 1/30/2004

**Program Area:** Land Use Planning, Rights-of-Way, and Cadastral Surveys.

**Purpose:** To assist the districts in identifying communication sites on Bureau of Land Management (BLM) administered lands with a high potential for development and to identify those sites in need of a communication site management plan or an update to an existing plan. Each site will require a cadastral survey of the site and the development of a map to identify the location of all facilities on the site, potential future development areas, the legal access, etc.

**Policy/Action:** One of the major priorities of the BLM in relation to the Department of Interior Strategic Goal, Resource Use, addresses the development of communication site management plans for each of the sites on BLM lands. Through the Washington Office (WO) Program Target Allocations (PTA), each State can now receive funding from the WO for the preparation of draft management plans and the assistance of Brent McBeth of the Forest Service.

Land Use Plans that are currently under development or revision should identify existing and planned communication sites within the planning area, including the site name, legal description for the site, elevation, and use designation. Proposed development on existing and planned communication sites should be based on an approved communication site management plan. Reference the Prineville District's draft Upper Deschutes Resource Management Plan and Environment Impact Statement, October 2003, Volume 2, Chapter 1, number 5.

Attachment 1, "District List," identifies all of the communication sites by district, whether there is an existing site plan, the future development potential, and if the site has legal access. Attachment 2, "Communications Site Management Plans," identifies Oregon and Washington's five year + action plan for preparation of the site plans and associated survey needs. The action plan was prepared in FY 2003 utilizing the information provided by the districts as to access needs, survey needs, potential for future development and the priority set by the district. The five year action plan will be revised as priorities may dictate. Attachment 3, "Plans in Progress," identifies three sites in the Prineville District where we utilized the services of Brent McBeth from the Forest Service in the development of the draft site management plans in Fiscal Year 2003, and the two sites in the Roseburg and Salem District scheduled for FY2004. Attachment 4 "Mapping Standards and Specifications for Communication Site Management Plans" identifies the mapping requirements for developing the site maps which is a mandatory document of the site management plan.

Each District is requested to review the first two attachments. Submit your revisions to the "District List"(Attachment 1) if the documentation is inaccurate, changed, etc. Prior to reviewing the "Communications Site Management Plans" (Attachment 2), please review "Mapping Standards and Specifications for Communication Site Management Plans" (Attachment 4) to determine if the current map will need to be amended to meet the standards.

Upon review of the above-mentioned documentation, please identify the following:

- 1) If the management plans and maps identified to be completed and/or updated in a particular fiscal year can be accomplished taking into consideration current and future workload and budget.
- 2) The FY 2005 funding needs for cadastral support in preparation of communication site survey maps and development of the management plans.
- 3) Identification of the site and estimated funding needed for the acquisition of legal access.
- 4) Any amendments/revisions to the District List of communication sites.

**Timeframe:** Please submit the above to the attention of John Styduhar (OR-958.1) by Friday, January 30, 2004.

**Budget Impact:** Through the Washington Office Program Target Allocations, each State can receive funding from the WO for the preparation of two draft management plans for each State. Funding for the completion of additional management plans that are prepared in-house, or for additional work to be performed by Brent McBeth, the funding must come from the 1492 allocation for each State.

**Background:** The enactment of the Telecommunications Act of 1996 authorized the BLM to retain a portion of the total rental fees collected for communication rights-of-way to be used specifically to improve the management and administration of the communication use program. The BLM expects to continue improvements by providing excellent customer service to current and potential holders of communication use authorizations.

**Manual/Handbook Sections Affected:** Land Use Planning, BLM Manual 1601, Release 1-1666, and Handbook, H-1601-1, Release 1-1667; Communication Sites Rights-of-way, BLM Manual 2800 and BLM Manual 2860, Communications; Cadastral Surveys-General (43 CFR 9180); and the Manual of Surveying Instructions.

**Coordination:** This has been coordinated with the Branch of Geographic Sciences.

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2

**Contact:** John Styduhar, Senior Realty Specialist, Branch of Realty and Records Services, 503-808-6454 and Tim Kent, Land Surveyor, Branch of Geographic Sciences, 503-808-6146.

**Districts with Unions** are reminded to notify their unions of this Instruction Memorandum and satisfy any bargaining obligations before implementation. Your servicing Human Resources Office or Labor Relations Specialist can provide you assistance in this matter.

Signed by  
Charles E. Wassinger  
Associate State Director

Authenticated by  
Mary O'Leary  
Management Assistant

4 Attachments

- 1 - [District List](#) (5pp)
- 2 - [Communications Site Management Plans](#) (3pp)
- 3 - [Plans in Progress](#) (1p)

4 - [Mapping Standards and Specifications for Communications Site Management Plans](#) (1p)

Distribution

WO-350 (Room 1000LS) w/attachments

OR-933 w/attachments

OR-955 w/attachments

OR-957 w/attachments

OR-958 w/attachments

## Mapping Standards and Specifications for Communication Site Management Plans

A detailed map of the entire communication site should be made as part of the site inventory process. Maps need to reflect current conditions of all facilities at the site as built. Any future development will require that maps be updated after the initial site survey. Therefore, all map products need to be submitted in a digital form. A geo-referenced CADD (Computer-Aided Design and Drafting) drawing will best serve realty planning needs and accommodate future map updates.

Ideally, maps should show topography with one or two foot contours in areas that can be potentially developed. Maps should be drawn at a scale of 1"=20' to 1"=40'. The scale may vary according to the size and the density of the facilities. During the course of a communication site survey, permanent reference monuments need to be established to control all current and future survey work at the site. All control monuments need to be geodetically referenced, horizontally and vertically, to the National Spatial Reference System (NSRS). The direction of all lines should refer to the true meridian. All control monument need to have surveyed ties to monuments of the Public Land Survey System (PLSS). By satisfying these requirements, legal descriptions for the rights-of-way can be verified as to correctness or determined from as-built survey data. In addition, all relevant resource data, from Geographic Information Systems (GIS) can be used in conjunction with the site map to properly manage the communication site.

### **The following features should be included in the map:**

- a. Buildings: Note the color and material from which they are constructed.
- b. Towers: Remotely measure the height.
- c. Guy lines and anchors.
- d. Microwave beam paths.
- e. Fences.
- f. Fuel tanks.
- g. Buried utility lines.
- h. Overhead utility lines with pole locations.
- i. Access roads and parking areas. If the need exists to acquire an easement for ingress and egress to the site, it should be identified and surveyed concurrently.
- j. Helicopter or hang glider landing pads. These features may be shown on master title plats.
- k. Property lines, if ownership boundaries cross the site.
- l. Vegetation and rock outcrops.
- m. Location of control monuments.
- n. Location of right-of-way (ROW) grant monuments. Lot monuments may also exist. If the ROW is not monumented, draw the exterior boundaries from available legal or grant descriptions.
- o. A table of geodetic coordinate data, both vertical and horizontal, for permanent control monuments, and data for antennas and towers for use in propagation studies.
- p. Other physical or biological features may be included that would potentially affect the future development or use of the site.

Fiscal Year	Communication Site Name	District	Field Office	Year Survey Finalized/Updated or New Survey Needed	Year Site Plan Finalized/Approved	Funding identified in current PTA	Legal Access to Site	BLM Facility Present	User Association Formed	Year FCC Exam Scheduled/Complete	Site Uses	Comments
2004	Brightwood	Salem	Cascades	Y		Y	Y	N			Cell, Radio	
	Snow Peak	Salem	Cascades	Y		Y	Y	N			Radio	
	Lane Mtn	Roseburg	Swiftwater	Y		Y	N	N			Microwave, CMRS	Pvt need legal access across private land. BLM Site Manager. Admin & cad. survey needed.
	Yellow Butte	Roseburg	Swiftwater	Y		Y	N	Y			PMRS	New BLM radio tower on site. Access across private land. Admin survey support needed. BLM Site Mgr.
	Mt. Sexton	Medford	Grants Pass	*			N	N			TV, Cell, Microwave, Fire Lookout	* District will use GPS/ArcView to map sites.
2005	Grizzly Mtn.	Coos Bay	Myrtlewood	Y			Y	N			Broadcast Translator, PMRS, FM, Microwave, Cell	Five facility Managers, 3 single users.
	Blue Ridge Mtn.	Coos Bay	Umpqua	Y			Y	Y			PMRS, Microwave	New 100' BLM radio tower completed in FY 2000 (may not meet future needs). Year round access.
	Mt. Baldy	Medford	Grants Pass	*			N	N			TV, Cell	*District will use GPS/ArcView to map site. One Multiple Use facility and 1 single use.
	Flounce Rock	Medford	Butte Falls	*			Y	Y			Microwave, Cell, TV, Radio	* District will use GPS/ArcView to map site. New radio tower construction underway in FY 2001. Currently has 40' BLM radio tower at site. Full access March - November.
	Sentinal Mtn	Spokane	Wenatchee	Y			Y	N	N		Microwave, PMRS	Cadastral survey support needed.
	Rhinehart Butte	Vale	Malheur	N	Y		Y	N			Cell, Radio	Need to update existing plan. Two Users.
	Lime Hill	Vale	Baker	N	Y		Y	N			Cell, Microwave, Radio	Need to update existing plan. Nine Users.
2006	Edson Butte	Coos Bay	Myrtlewood	Y			Y	Y			PMRS, Microwave, Tsunami Warning Station (USGS)	Year round gated access across private land. High Security Risk - Manned lookout tower in summer. 100' BLM radio tower scheduled to be replaced in FY 2004.
	Buck Mtn.	Eugene	U.W.	Y*	May-82		N	Y			PMRS, CMRS	Update current site plan. 150' steel pvt. radio tower on site. BLM Site Mgr. *Property Line Survey Needed.
	Hamaker Mtn	Lakeview	Klamath Falls	Y			Y	Y			Radio, Microwave, Radar	8' BLM radio tower on site.
	King Mtn.	Medford	Glendale	*			?	N			TV, Radio, Microwave	*District will use GPS/ArcView to map site.
	Tallow Box Mtn.	Medford	Ashland	*			Y	N			Fire Lookout, Cell, TV	*District will use GPS/ArcView to map site. 50' wooden lookout tower (DOF). 4x4 access - Apr thru Oct.
	Hampton Butte	Prineville	Deschutes	Y			Y	N			PMRS	40' BPA radio tower on site. Year round access by truck or snowmobile.
	Kenyon Mtn	Roseburg	S. River	Y			N	N			Lower Power TV/FM Repeaters	Access across private land. BLM site manager. Admin survey support needed.
	Prairie Mtn.*	Salem	Marys Peak	Y	*		Y	N			Microwave, FM, Cell, and Radio	*Update site plan for Prairie Mtn East and Prairie West. New Site plan needed for Prairie Mtn. Upgrade to FLPMA ROWs.
	Blue Mtn	Vale	Jordan	Y			Y	Y			Cell, Radio	5' BLM radio tower on site. Cadastral survey support needed. Access by 4x4 bucket Jun-Nov.
	FAA Rome VORTAC Site	Vale	Jordan	N			Y	N			Radar	

Fiscal Year	Communication Site Name	District	Field Office	Year Survey Finalized/Updated or New Survey Needed	Year Site Plan Finalized/Approved	Legal Access to Site	BLM Facility Present	User Association Formed	Year FCC Exam Scheduled/Complete	Site Uses	Comments
2007	Signal Tree	Coos Bay	Myrtlewood	Y		Y	Y			PMRS, Microwave, FM, Broadcast Translator, Cell, CMRS	High Security Risk - Manned 80' wooden lookout tower in summer. New radio tower completed in FY 01. Access by gravel road.
	Yanaix Butte	Lakeview	Klamath Falls	Y		Y	Y			Radio	30' BLM radio tower on site. New tower under construction in FY01. Not expected to meet future demands. Access by 4x4 May-Oct.
	Elk Mtn.	Medford	Butte Falls	*		?	N			?	*District will use GPS/ArcView to map site.
	Soda Mtn.	Medford	Ashland	*		?	N			Radio, Microwave, TV, Cell, Radio, Fire Lookout	*District will use GPS/ArcView to map site.
	Owyhee Ridge	Vale	Malheur	N		Y	Y			Radio	Currently has 30' BLM radio tower. Will replace wood pole tower in FY02. Access May-Nov w/4x4 bucket.
	Richland/Halfway	Vale	Baker	N		Y	N			Cell	
2008	Bennett Butte	Coos Bay	Myrtlewood	Y		Y	N			Microwave, PMRS	Year round gated access over private road. High security risk.
	Bosley Butte	Coos Bay	Myrtlewood	Y		Y	Y			PMRS, CMRS, Broadcast Translator, Microwave, Tsunami Warning Station	Year round access by private road. High Security Risk - Manned lookout tower in summer. Currently, 60' BLM radio tower on site. Tower scheduled to be replaced in FY 2004 - not expected to meet future demands.
	Brickerville	Eugene	Siuslaw	Y*		N	N			Cable TV	Subdivision of Section Survey Needed.
	Hawley Butte	Eugene	U.W.	Y		N	N			Cable TV, PMRS	Update Plan from 1983. BLM site manager.
	Table Rock	Lakeview	Lakeview	Y	Apr-88	Y	N			TV Translator, Mobil Radio, Telecom	Update management plan.
	Wolf Ridge	Medford	Butte Falls	*		?	N			Microwave	*District will use GPS/ArcView to map site.
	Fielder Mountain	Medford	Butte Falls	*		?	N			Cell	* District will use GPS/ArcView to map site.
	Buck Butte	Prineville	Deschutes	Y		Y	N			Cell	
	Trask Mtn.	Salem	Tillamook	Y		Y	N			Seismic Station	
Pharmacy Hill	Vale	Jordan	Y		Y	N			Radio		

Fiscal Year	Communication Site Name	District	Field Office	Year Survey Finalized/Updated or New Survey Needed	Year Site Plan Finalized/Approved	Legal Access to Site	BLM Facility Present	User Association Formed	Year FCC Exam Scheduled/Complete	Site Uses	Comments
2009	Palmer Butte	Coos Bay	Myrtlewood	Y		Y	N			PMRS, Microwave, weather station, personal telephone.	
	Badger Mountain	Eugene	Siuslaw	Y	Sep-85	N	N			Cell, Microwave, PMRS	Update management plan. BLM - site manager.
	Huckleberry Mountain	Eugene	U.W.	Y	Sep-83	N	Y			PMRS	Update management plan. BLM-site manager. 20' BLM radio tower scheduled to be replaced in FY 2002. Access by 4x4, May-Sept.
	Squires Peak	Medford	Ashland	*		?	N			TV	* District will use GPS/ArcView to map site.
	Chestnut Mtn.	Medford	Ashland	*		?	N			Microwave	*District will use GPS/ArcView to map site.
	Rancheria Rock	Prineville	CORA	Y		N	Y			PMRS, BLM Easement	
	Goodnoe Hills	Spokane	Wenatchee	Y		Y	N			Cell, PCS, Microwave	
	Cottonwood Mtn/Dry Peak	Vale	Malheur	N	Y	Y	Y			Radio	Current 60' BLM radio tower under construction in 2001. Need to update present management plan. Access by 4x4 bucket - June-November.
2010	Buckskin Mtn	Burns	Andrews	Y		Y	N			Microwave	2nd Facility (Red Point Community Club) (TV Translator Site) suspected to be non-operational/ possibly abandoned. Plan of development deferred until completion of Andrews/Steens RMP.
	Roman Nose	Coos Bay	Umpqua	Y	Jan-86	Y	Y			Microwave, PMRS.	Update management plan. Replace current tower in FY 2004. Not expected to meet future demands.
	Horse Rock	Eugene	U.W.	Y		N	N			Microwave	
	Fish Creek Rim	Lakeview	Lakeview	Y	Jul-90	Y	N			TV, Cell, Internal Communications	Update management plan.
	Stukel Mountain	Lakeview	Klamath Falls	Y	?	Y	N			TV, Passive Reflector	Update management plan.
	Gilbert Peak	Medford	Grants Pass	Y		N	N			TV	
	Patrick Ridge	Roseburg	Swiftwater	Y		N	N			Passive Reflector	Admin survey support needed. Pvt may need access across private land. BLM - site manager.
	West of Tiller	Roseburg	S. River	Y		Y	N			LPTV	BLM site manager. New radio tower construction in FY01. Year round access. Need FLPMA ROW.
	Gold Hill	Vale	Baker	Y		Y	N			Cell, Microwave	Admin & Cad survey support needed.