Alaska Land Mobile Radio Communications System

System Site Infrastructure Description

Alaska Land Mobile Radio (ALMR) Communications System
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A. ALMR Network Enterprise – System Equipment

System Equipment	Measure	Maintenance Level
Master Site - Zone Controllers Master site zone controllers are the "brains" of the ALMR Network Enterprise. Each Master site has two redundant zone controllers, which minimizes site failures. If a Master site does fail the RF sites in the associated zone will go into site trunking mode. The other zone will continue normal operations for the sites in that zone. Cross-zone wide-area dispatch will be lost.	**% Customer Desired Uptime** **Response Category**	**99.999%** **Refer to Response Table A**
Radio Frequency (RF) Site Equipment RF equipment provides transmission and receiving capabilities for a particular coverage area that link subscriber equipment with the zone controller and back to dispatch centers and other subscriber equipment. This category also includes infrastructure Bi-Directional Amplifiers and RF antenna systems.	**% Customer Desired Uptime** **Response Category**	**99.9 to 99.999%** **Refer to Response Table A**

B. ALMR Network Enterprise – Subsystem Equipment

Subsystem Equipment	Measure	Maintenance Level
Console System The Console System links dispatch consoles to the ALMR Enterprise Network. When the console system is not functioning, dispatchers cannot communicate to subscribers over the ALMR Enterprise Network. This can be mitigated by use of consolettes as a backup.	**% Scheduled Uptime** **Response Category**	**99.999%** **Refer to Response Table A**
Key Management Facility (KMF) The KMF system distributes keys over the air to enabled and authorized subscriber equipment. Failure of this system may result in incompatible keys among subscriber units, preventing communication. A backup mechanism is manually keying the radios. KMF costs include both the operations and connectivity (transport).	**% Scheduled Uptime**	**99.9 to 99.99%**

Network Management Terminals Network management terminals allow the system managers and technicians to manage and control the ALMR Enterprise Network System.	% Scheduled Uptime	99.9 to 99.99%

C. ALMR Network Enterprise – Motobridge Gateway System

Motobridge Gateway System	Measure	Maintenance Level
OMC / ACP / SIP The OMC / ACP / SIP may need to support critical operations and will need a high level of availability. Initially, an annual PMI will be conducted to fully evaluate the operational readiness of the equipment. As use of these components expands, they will move to a % uptime status.	**Migrate to % Uptime As Incentive Dictates**	**99.9 to 99.99%**
WSGU / Dispatch Console These MotoBridge® resources will be used on an as-needed basis. MotoBridge® failures will be addressed on a break-fix basis for each particular location. An annual PMI will be conducted to fully evaluate the operational readiness of the equipment. Deviations identified during the PMI will be corrected within 90 days**.**	**Migrate to % Uptime As Incentive Dictates**	**99.9 to 99.99%**
RGU / Radio Resources MotoBridge® resources will be used on an as-needed basis. MotoBridge® failures will be addressed on a break-fix basis for each particular location. An annual PMI will be conducted to fully evaluate the operational readiness of the equipment. Deviations identified during the PMI will be corrected within 90 days.	**Migrate to % Uptime As Incentive Dictates**	**Annual PMI**