

SUBJ: ALASKAN REGION ELECTRICAL POWER POLICY CRITERIA

- 1. PURPOSE.** This order provides policy criteria and additional guidance for specific regional requirements to ensure satisfactory and reliable electrical power to facilities within the Alaskan Region.
- 2. DISTRIBUTION.** This order is distributed to the branch level in the Airway Facilities, Air Traffic, and Flight Standards Divisions in the regional office, and to all AF System Maintenance Office (SMO) headquarters.
- 3. CANCELLATION.** Order AL 6030.19A, Alaskan Region Electrical Power Policy Criteria, dated September 18, 1990, is canceled.
- 4. BACKGROUND.** Order 6030.20E, Electrical Power Policy, 6950.2C, Electrical Power Policy Implementation at National Airspace System Facilities, and 6950.25, Use of Electrical Power Conditioning Devices, provide broad agency power policy and guidance in support of the NAS. In Alaska the unreliability of commercial power, reliance on air transportation for facility access, and the extreme weather conditions create unique situations which are not specifically addressed in the national policy orders.
- 5. APPLICATION.** This order applies to all existing and planned facilities within the region and provides for site adaptation, but is not intended to circumvent, negate, or conflict with the national standards or policy. Deviations from national standards and orders require an appropriate waiver or National Change Proposal (NCP). Deviations from this order for regional systems and equipment not covered by national standards and orders must be approved by AAL-400.
- 6. GENERAL GUIDANCE.**
 - a. Standby engine generators are authorized for installation at existing facilities identified in Appendix 1. The SMO shall provide an NCP with justification for all new standby engine generator installations, for new installation power conditioning devices, and uninterruptible power supplies at existing facilities.
 - b. Standby engine generators shall be provided as part of the initial facility installation at all new remote locations. Exception Number 1: AAL-450, AAL-470, and the SMO mutually agree to eliminate the standby engine generator. Exception Number 2: The new facility is wired into another agency's standby power.
 - c. At locations where no existing space is available, new standby engine generators shall be installed in low-maintenance, energy-efficient shelters and be sized to power all of the collocated facilities. The availability of local fuel delivery shall be considered when sizing new standby engine generator fuel tanks. The minimum fuel storage shall be 120 hours. New standby engine generators shall have provisions for remote monitoring and control.
 - d. The regionally designed unattended twin prime power units satisfy the national standards for automatic standby. These twin prime power units meet the national standards for a standby power source when they are located within 200 feet of the facility, or have a dual feeder with automatic transfer. The dual feeder to these locations need to have at least a 10 foot separation between the feeders. Facilities that are authorized standby engine generators by this order are exempt from the 200-foot criteria and the facility may be located any distance from the prime power units.
 - e. Guidance for the selection of suitable power conditioning devices to correct specific facility power problems is contained in Order 6950.25. This guidance shall be used and justification, including identification of the power

line disturbances, shall be provided on a site-by-site basis for AAL-470 review and approval prior to the procurement and installation of this equipment.

7. RESPONSIBILITIES.

a. The NAS Implementation Branch, AAL-450, shall provide, through the normal F&E budgetary procedures, standby engine generators for facilities installed at new remote locations.

b. SMO managers shall identify the requirement for standby engine generators at existing facilities and provide the engine generators through normal budgetary procedures.

c. SMO managers, AT and AF field office managers, and/or station coordinators shall ensure that, during periods when facilities are operating on standby power, electrical usage be kept to an absolute minimum. Usage shall be for essential loads only. Non-essential loads, such as for laundry equipment, automobile head-bolt heaters, recreational, hobby, and similar activities, shall not be utilized.

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APPENDIX 1. UNIQUE REGIONAL FACILITIES

Alaskan Region facilities authorized standby engine generators:

AWOS - When in support of an approved aid.

ATCT - Upon mutual agreement between AAL-400 and AAL-500.

DF

DME - Standby power from the associated facility.

FSS - Upon mutual agreement between AAL-400 and AAL-500.

GS

LIVG - Essential load only.

LOC/LDA

MARKERS - MM and OM

MALS/MALSR

NDB - When primary approach aid or airway. Standby engine generator shall power collocated facilities.

ODALS

RVR - CAT I (CAT II & III have standby power per Order 6950.2C/D).

SWG - Treatment plants and associated lift stations only (EPA requirement).

VOR - Standby engine generator shall power collocated facilities.

Alaskan Region facilities authorized portable power plant:

Transient quarters.

SMO field office (minimum one unit available).

Alaskan Region facilities authorized power conditioning equipment (including 120-second UPS for facilities with standby engine generators).

Site-by-site justification utilizing guidance in Order 6950.2C/D and 6950.25.