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Aviation Spectrum Resources, Inc.
Selective Calling (SELCAL) Users Guide

Please review instructions inside for additional copies, obtaining updates, and checking the currency of this document.
The aircraft operating agency is responsible for notifying ASRI if any of the following occur:

   a. The aircraft is retired, sold, destroyed, or returned to leasing/holding company
   b. The registrant’s mailing address changes
   c. Aircraft registration/tail number changes
   d. Aircraft communications links change (HF and/or VHF)
   e. Aircraft type of code supported changes (12-tone or 16-tone)
   f. Areas of operation for an aircraft change

Note: Whenever the ASRI Selective Calling (SELCAL) Users Guide is revised, a copy of the current manual will also be posted on the ASRI web site (www.asri.aero) for customers to verify that the manual they have is the current edition and also so that they may download copies, as needed. It is posted on the main page under "Manuals."
SELCAL Requirements Summary

The following items should be considered if an organization plans to implement SELCAL:

1. Has the following information been provided to ASRI to obtain SELCAL codes:
   a. Company name and address
   b. Name of point of contact including telephone and email information
   c. Number of SELCAL codes requested
   d. Aircraft registration/tail numbers
   e. Aircraft communications links available per aircraft (HF and /or VHF)
   f. Type of code supported per aircraft (12-tone or 16-tone)
   g. Areas of operation per aircraft (See table 4-1)

2. Has the SELCAL codes obtained from ASRI been correctly placarded in the cockpit of each of the operating agency aircraft?

3. Have flight crews and dispatch personnel been properly trained on ICAO SELCAL procedures specifically including the following:
   a. Procedures for preflight checks?
   b. Procedures for establishment of communications?
   c. En-route procedures?

4. Has a current copy of the ASRI Users Guide been provided to flight crews and dispatch personnel?

5. Has the aircraft operating agency ensured that all aeronautical (ground) stations with which the aircraft would normally communicate during a particular flight know the SELCAL code associated with the radiotelephony call sign?

6. Has the aircraft operating agency disseminated to all aeronautical stations concerned, at regular intervals, a list of SELCAL codes assigned to its aircraft or flights?

7. Did the aircraft flight crew:
   a. Include the SELCAL code in the flight plan submitted to the appropriate air traffic services unit?
   b. Ensure that the HF aeronautical station has the correct SELCAL code information by establishing communications temporarily with the HF aeronautical station while still within VHF coverage?

8. For the SELCAL system to operate properly, is the aircraft operating on the same HF or VHF frequency as the aeronautical stations?

9. The aircraft operating agency is responsible for notifying ASRI if any of the following occur:
   a. The aircraft is retired, sold, destroyed, or returned to leasing/holding company
   b. The registrant’s mailing address changes
   c. Aircraft registration/tail number changes
   d. Aircraft communications links change (HF and /or VHF)
   e. Aircraft type of code supported changes (12-tone or 16-tone)
   f. Areas of operation for an aircraft change

Note: Due to the limited number of SELCAL codes, the same code assignments to multiple aircraft should be expected. Therefore, the use of correct radiotelephony procedures is emphasized when establishing communications via SELCAL.
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1 Scope

1.1 Introduction

A state-of-the-art-technology when it was introduced for use in civil aviation in 1957, the Selective Calling (SELCAL) system permits selective calling of individual aircraft over the aeronautical mobile voice channels. It can be used on high frequency (HF) or very high frequency (VHF) channels and is designed to relieve flight crews from the need to continuously maintain a listening watch on their assigned radio channels. This generates a number of benefits including reduced flight crew workload and cockpit noise both of which can have a negative effect on human performance.

In order to uniquely identify individual aircraft using the SELCAL system, SELCAL codes were assigned to each aircraft. SELCAL code assignments were coordinated worldwide, on behalf of the International Civil Aviation Organization (ICAO), by Aeronautical Radio, Inc. (ARINC), which until recently had served as the registrar of the system since it was first introduced in 1958 for use by civil aviation. ICAO and ARINC managements agreed to work together without a formalized agreement. ARINC was responsible for accepting all applications from outside organizations interested in obtaining SELCAL assignments and for issuing SELCAL codes. ARINC would periodically coordinate with ICAO on the number of actual code assignments that were made to applicants and total number of users of the system.

In order for ARINC to proceed with obtaining outside financial support, ARINC petitioned the Federal Communications Commission (FCC) in September 2004 with a request for Declaratory Ruling that would alter the manner in which VHF and HF spectrum used in aeronautical en-route service was managed. This request would not only allow the change in spectrum management but would also enable the restructuring of ARINC. In March 2005, the FCC granted ARINC’s request to move to a new entity under aviation industry governance and control the management of VHF and HF frequency spectrum used to provide the aeronautical en-route service in accordance with Part 87 of the FCC rules that was currently licensed to ARINC. The ARINC Board of Directors asked Management to proceed with creating a new entity. As a result, on January 1, 2006, Aviation Spectrum Resources, Inc (ASRI) was organized and incorporated within the State of Delaware. A separate ASRI Board of Directors consisting of airline management staff was formed to provide guidance and oversight to the new company.

In January 2006 ASRI replaced ARINC as the registrar of the SELCAL system for the aviation community. ASRI, instead of ARINC, is now responsible for administering SELCAL codes, maintaining the database, and providing periodic reports on the status of the SELCAL system to ICAO.
1.2 Applicable Documents

- **AEESC**
  ARINC Characteristic 596-4 Mark 2 Airborne SELCAL System
  ARINC Characteristic 714-6 Mark 3 Airborne SELCAL System

- **RTCA**
  DO-93 Minimum Performance Standard – Airborne Selective Calling Equipment

- **ICAO**
  Annex 10 - Aeronautical Telecommunications Volume II – Communication Procedures including those with PANS status

- **FAA**
  TSO-C59a Airborne Selective Calling (SELCAL) Equipment

- **North Atlantic Programme Coordination Office (NAT PCO)**
  Sample Oceanic Checklist

- **ASRI**
  Aeronautical Frequency Committee (AFC) Manual

1.3 Terms and Acronyms

**Aeronautical Station**: A ground station equipped to engage in radio communications or to effect radio transmission of energy. Air Navigation Service Providers (i.e. FAA) operate ground stations that communicate with aircraft stations for the purposes of air navigation.

**Air Navigation Service Providers (ANSP)**: An organization that separates aircraft on the ground or in flight in a dedicated block of airspace on behalf of a state or a number of states. ANSPs are either government departments; state owned companies, or privatized organizations.

**Aircraft Station**: A radio station on board any aircraft: includes all radio-transmitting devices operating in the Aviation Radio Services.

**ASRI Headquarters**: The principal office of ASRI, 2551 Riva Road, Annapolis, Maryland 21401. The principal office number for ground station service users to contact is (410) 266-4800. Email is info@asri.aero.
Aviation Radio Service: The aviation radio service is an internationally-allocated radio service providing for safety of life and property in air navigation. There are two types of aviation radio services:

Aircraft Radio Stations are stations in the aeronautical mobile service that use radio equipment, such as two-way radiotelephones, radar, radionavigation equipment, and Emergency Locator Transmitters (ELTs), on board aircraft for the primary purpose of ensuring safety of aircraft in flight.

Ground Radio Stations are usually two types. The Aeronautical and Fixed Service includes stations used for ground-to-air communications with aircraft about aviation safety, navigation, or preparation for flight. The Aeronautical Radionavigation Service is made up of stations used for navigation, obstruction warning, instrument landing, and measurement of altitude and range.

Ground Station: A station equipped to engage in radio communications or to effect radio transmission of energy.

Listening Watch: Flight crew responsibility to continuously monitor a radio using headsets or cockpit speaker for the purpose of receiving radio communications from an aeronautical station.

Radio Call Sign: The aircraft registration/tail number (N-number for US registered aircraft assigned to the aircraft by the FAA) or flight number (airline abbreviation followed by the flight service number). An example of a flight number for Delta Airlines flight 123 would be DAL123.

Radio Telephony Designator: A one or two word designator, normally the company name or an abbreviation thereof, but may not be, that is used in combination with the flight number to become the flight identification in all voice communications with air traffic control. Examples: American Airlines flight 156 is AAL156 and “American 156” or US Airways Flight 347 is USA347 and “Cactus 347”.
The following abbreviations, acronyms, and mnemonics are used in this document:

<table>
<thead>
<tr>
<th>Item</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>AEEC</td>
<td>Airline Electronic Engineering Committee</td>
</tr>
<tr>
<td>AF</td>
<td>Africa</td>
</tr>
<tr>
<td>AFC</td>
<td>Aeronautical Frequency Committee</td>
</tr>
<tr>
<td>ARINC</td>
<td>Aeronautical Radio, Inc.</td>
</tr>
<tr>
<td>ASRI</td>
<td>Aviation Spectrum Resources Inc.</td>
</tr>
<tr>
<td>ATS</td>
<td>Air Traffic Services</td>
</tr>
<tr>
<td>CA</td>
<td>Central America</td>
</tr>
<tr>
<td>ELT</td>
<td>Emergency Locator Transmitters</td>
</tr>
<tr>
<td>EU</td>
<td>Europe</td>
</tr>
<tr>
<td>FAA</td>
<td>Federal Aviation Administration</td>
</tr>
<tr>
<td>FCC</td>
<td>Federal Communication Commission</td>
</tr>
<tr>
<td>HA</td>
<td>Hawaii</td>
</tr>
<tr>
<td>HF</td>
<td>High Frequency.</td>
</tr>
<tr>
<td>Hz</td>
<td>Hertz</td>
</tr>
<tr>
<td>ICAO</td>
<td>International Civil Aviation Organization</td>
</tr>
<tr>
<td>ME</td>
<td>Middle East</td>
</tr>
<tr>
<td>NA</td>
<td>North America</td>
</tr>
<tr>
<td>NF</td>
<td>North Africa</td>
</tr>
<tr>
<td>NAT PCO</td>
<td>North Atlantic Programme Coordination Office</td>
</tr>
<tr>
<td>RTCA</td>
<td>Radio Technical Commission for Aeronautics</td>
</tr>
<tr>
<td>SA</td>
<td>South America</td>
</tr>
<tr>
<td>SE</td>
<td>South East Asia</td>
</tr>
<tr>
<td><strong>Item</strong></td>
<td><strong>Meaning</strong></td>
</tr>
<tr>
<td>---------</td>
<td>-------------</td>
</tr>
<tr>
<td>SELCAL</td>
<td>Selective Calling System</td>
</tr>
<tr>
<td>SF</td>
<td>South Africa</td>
</tr>
<tr>
<td>SP</td>
<td>South Pacific</td>
</tr>
<tr>
<td>UN</td>
<td>United Nations</td>
</tr>
<tr>
<td>VHF</td>
<td>Very High Frequency</td>
</tr>
<tr>
<td>WP</td>
<td>West Pacific</td>
</tr>
</tbody>
</table>
2 System Description

2.1 Function

The Selective Calling System known as SELCAL is a signaling method to alert an individual aircraft that a ground station wishes to communicate with the aircraft. SELCAL signals are capable of being transmitted on en-route frequencies with existing HF or VHF ground-to-air communication transmitters and receivers. A SELCAL transmission consists of a combination of four pre-selected audio tones whose transmission requires approximately two seconds. The normal functioning of the ground-to-air communications link should be unaffected, except at such time as the selective calling function is being performed.

2.2 Components

The elements comprising the overall system are the following:

- Ground SELCAL tone generator and control panel
- Ground-to-air transmitter, HF or VHF
- Airborne receiver, HF or VHF
- Airborne SELCAL decoder unit
- Aircraft SELCAL signal indicators

A block diagram of the selective calling system is shown in Figure 2-1.

2.3 Principles of Operation

With the selective calling system, the normal voice calling method is replaced with the transmission of coded tones to the aircraft over the voice communications channel. It is critical to remember that both the ground station and the aircraft need to be operating on the same HF or VHF frequency for the system to operate properly.

When the ground operator desires to call a particular aircraft, the SELCAL code assigned to that aircraft is keyed into the tone generator. The tone pulses that are generated in the ground station tone generator are transmitted to the aircraft via the ground-to-air transmitter. A single selective call consists of a combination of four pre-selected audio tones whose transmission requires approximately two seconds. The tones are received by the aircraft receiver and presented to the decoder connected to the audio output of the receiver. The airborne receiver and decoder equipment is capable of receiving and interpreting the correct code and
rejecting all other codes in the presence of random noise and interference. Receipt of the assigned tone code (SELCAL code) activates a cockpit call system for display on the signal indicator.

The type of signal indicator can be chosen to suit operational requirements of the user and may consist of a lamp, a bell, a chime or any combination of such indicating devices. On aircraft equipped with SELCAL the flight crew has the capability to also maintain a conventional listening watch, using headsets or cockpit speaker.

![SELCAL System Block Diagram](image)

*Figure: 2-1 SELCAL System Block Diagram*
2.4 SELCAL Codes

The SELCAL system was initially based on 12-tone codes which provided for a total of 2,970 individual code assignments. In the early 1980s, the registrar encountered a growth problem when the requests for code assignments from the aircraft operators exceeded the number of unassigned codes available. To address the problem, the inventory of available codes was increased by adding four more tones. This provided for another 7,950 code assignments, a solution that became applicable when provisions for the 16-tone code system were introduced in ICAO Annex 10 in 1985.

Although the combined total number of SELCAL code assignments, based on the earlier 12-tone system and the subsequent introduction of the 16-tone system, which provided a total of 10,920 assignments, the inventory of unused codes eventually became exhausted. To continue to meet the requirements for new assignments, it was necessary for the registrar to assign duplicate codes. Flight crews, for example, can anticipate that they will receive a greater number of SELCAL activations for messages intended for other aircraft, a situation that raises the possibility of misdirected messages. The problems associated with this practice can be expected to increase over time.

The registrar makes every effort to reduce the possibility of conflict caused by duplicate code assignments. The first and principal means is to attempt to maintain an adequate geographical separation between the aircraft assigned duplicate codes. However, this is not always possible, and aircraft with worldwide code assignments will occasionally operate simultaneously in the same airspace.

In the current circumstances, it is essential that aircrews and air traffic service (ATS) personnel remain vigilant and recognize that SELCAL can only be reliable when good radiotelephony procedures are also practiced. What is needed to ensure communications integrity is a consistent application of fundamental radiotelephony procedures. It is important, for example, that an aircraft responding to a SELCAL message reply with its full communication radio call sign.

The four tones required for a single SELCAL code assignment are selected from a total of sixteen tones available in the ground station SELCAL installation. For convenient reference, the sixteen tones are designated by letters of the alphabet (“A” through “S”; with “I”, “N”, and “O” omitted). Tones “P”, “Q”, “R”, and “S” were the four tones that were added to the exiting 12 tones in 1985.

Each SELCAL equipped aircraft is assigned a permanent four-letter code. The code is placarded in the cockpit of each SELCAL equipped aircraft. See Table 2-1 for tones being used in the SELCAL system.
<table>
<thead>
<tr>
<th>DESIGNATION</th>
<th>FREQUENCY (Hz)</th>
<th>DESIGNATION</th>
<th>FREQUENCY (Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red A</td>
<td>312.6</td>
<td>Red J</td>
<td>716.1</td>
</tr>
<tr>
<td>Red B</td>
<td>346.7</td>
<td>Red K</td>
<td>794.3</td>
</tr>
<tr>
<td>Red C</td>
<td>384.6</td>
<td>Red L</td>
<td>881.0</td>
</tr>
<tr>
<td>Red D</td>
<td>426.6</td>
<td>Red M</td>
<td>977.2</td>
</tr>
<tr>
<td>Red E</td>
<td>473.2</td>
<td>Red P</td>
<td>1083.9</td>
</tr>
<tr>
<td>Red F</td>
<td>524.8</td>
<td>Red Q</td>
<td>1202.3</td>
</tr>
<tr>
<td>Red G</td>
<td>582.1</td>
<td>Red R</td>
<td>1333.5</td>
</tr>
<tr>
<td>Red H</td>
<td>645.7</td>
<td>Red S</td>
<td>1479.1</td>
</tr>
</tbody>
</table>

*Table: 2-1 SELCAL Tones*

Tone codes are made up of the various combinations of the tones as seen in Table 2-1 and are designated by letters. An example of a SELCAL code would be AC-BD. Each transmitted code should be made up of two consecutive tone pulses, with each pulse containing two simultaneously transmitted tones. The pulses should be of 1.0 plus or minus 0.25 seconds duration, separated by an interval of 0.2 plus or minus 0.1 second. See Figure 2-2 for the transmission sequence of SELCAL Code example of AC-BD.
Figure: 2-2 SELCAL Code AC-BD Example
3 Procedures and Regulatory

The International Civil Aviation Organization (ICAO), a United Nations (UN) Specialized Agency, is the global forum for civil aviation. ICAO works to achieve its vision of a safe, secure, and sustainable development of civil aviation through cooperation through its member States. ICAO is responsible for defining air navigation policies and procedures for the civil aviation industry.

Annex 10 of ICAO contains procedures for air navigation services that apply to the operation of a SELCAL system. For a complete listing of the procedures it is recommended that one consult Volume II of Annex 10 Section 5.2.4. The following are a summary of most of the SELCAL radiotelephony procedures contained in annex:

3.1 Procedures for notification to aeronautical stations of SELCAL codes

- It is the responsibility of the aircraft operating agency to ensure that all aeronautical (ground) stations with which the aircraft would normally communicate during a particular flight know the SELCAL code associated with its radiotelephony call sign.

- When practicable, the aircraft operating agency should disseminate to all aeronautical stations concerned, at regular intervals, a list of SELCAL codes assigned to its aircraft or flights.

- The aircraft should
  - Include the SELCAL code in the flight plan submitted to the appropriate air traffic services unit; and
  - Ensure that the HF aeronautical station has the correct SELCAL code information by establishing communications temporarily with the HF aeronautical station while still within VHF coverage.
3.2 Procedures for preflight check

- The aircraft station should contact the appropriate aeronautical station and request a preflight SELCAL check and, if necessary, give its SELCAL code.
- When primary and secondary frequencies are assigned, a SELCAL check should normally be made first on the secondary frequency and then on the primary frequency. The aircraft station would then be ready for continued communication using the primary frequency.
- Should the preflight check reveal that either the ground or airborne SELCAL installation is inoperative; the aircraft should maintain a continuous listening watch on its subsequent flight until SELCAL again becomes available.

3.3 Procedures for establishment of communications

- When an aeronautical station initiates a call by SELCAL, the aircraft replies with its radio call sign, followed by the phrase, “Go Ahead.”

3.4 En-route procedures

- Aircraft stations should ensure that the appropriate aeronautical station(s) are aware that SELCAL watch is being established or maintained.
- When so prescribed on the basis of regional air navigation agreements, calls for scheduled reports from aircraft may be initiated by an aeronautical station by means of SELCAL.
- Once SELCAL watch has been established by a particular aircraft station, aeronautical stations should employ SELCAL whenever they are required to contact the aircraft.
- In the event the SELCAL signal remains unanswered after two calls on the primary frequency and two calls on the secondary frequency, the aeronautical station should revert to voice calling.
- Stations in a network should keep each other immediately advised when malfunctioning occurs in a SELCAL installation on the ground or in the air. Likewise, the aircraft should ensure that the aeronautical stations concerned with its flight are immediately made aware of any malfunctioning of its SELCAL installation, and that voice calling is necessary.
- All stations should be advised when the SELCAL installation is again functioning normally.
3.5 SELCAL code assignments to aircraft

- In principal, the SELCAL code in the aircraft should be associated with the radiotelephony sign, i.e. where the flight number (service number) is employed as the radio call sign, the SELCAL code in the aircraft should be listed against the flight number. In all other cases, the SELCAL code in the aircraft should be listed against the aircraft registration.

Note: Due to the limited number of SELCAL codes, the same code assignments to multiple aircraft should be expected. Therefore, the use of correct radiotelephony procedures is emphasized when establishing communications via SELCAL.
4 System Administration

ASRI is the registrar for all worldwide SELCAL codes. These codes are issued to aircraft operators, verified annually, and decommissioned by ASRI on behalf of the International Civil Aviation Organization (ICAO). These codes can be used by aircraft in both VHF and HF radio communications operations. Due to the shortage of available codes, an accurate accounting of users and codes is very important. These services are provided at a minimal charge to aircraft operators. Codes are assigned to user aircraft on a directory basis. This assignment will normally be made by assigning individual codes or blocks of codes to air carrier organizations as requested with the maximum consideration being given to providing the minimum duplication of codes to aircraft which operate in the same areas of the world.

Because of the background noise level experienced on HF radio frequencies, aircrews usually prefer to turn down the audio level of their HF receiver until alerted via SELCAL of a message specifically intended for their aircraft. When the ground station operator wishes to communicate with an aircraft, he enters into the SELCAL encoder the 4-letter code of that aircraft, which is usually included in its flight plan, and transmits that code over the assigned radio channel. All aircraft monitoring that channel receive the SELCAL broadcast, but only those (preferably only one) that have been programmed with that 4-letter code will respond by sounding a chime or otherwise alerting the crew. The crew will then set their volume control higher to listen to the voice traffic and, using ICAO recommended radio procedures, assure that the message is intended for them.

There is a critical shortage of possible 4-letter codes, which has required re-use of the same code by more than one aircraft. Duplicate codes are usually assigned to aircraft operated in widely separated areas of the world, and usually do not have the same HF radio frequency assignment. However, there are occasions when two or more aircraft having the same code may be operating in the same general area, and will respond to the same transmission. Therefore, SELCAL should not be used as a substitute for proper voice identification procedures.

Note: Due to the limited number of SELCAL codes, the same code assignments to multiple aircraft should be expected. Therefore, the use of correct radiotelephony procedures is emphasized when establishing communications via SELCAL.
It is important to remember that the SELCAL codes **do not transfer when an aircraft is sold**. They remain with the original registrant for use only in the areas of registration. SELCAL code utilization is verified annually. Please notify the SELCAL Registrar (ASRI Headquarters) if any of the following occur:

1. The aircraft is retired, sold, destroyed, or returned to a leasing/holding company
2. The registrant’s mailing address changes
3. Aircraft registration/tail number is modified
4. Aircraft communications links change (HF and/or VHF)
5. Aircraft type of code supported changes (12-Tone or 16-Tone)
6. Areas of operation for an aircraft change

Certain information is required when an organization is applying for a SELCAL code(s). This following information is required when applying for SELCAL code(s):

1. Company name, address, name of contact, and contact information
2. Number of SELCAL codes requested
3. Aircraft registration/tail numbers
4. Aircraft communications links available (HF and/or VHF)
5. Type of code supported (12-Tone or 16-Tone)
6. Areas of operation (see Table 4-1)

<table>
<thead>
<tr>
<th>Africa (AF)</th>
<th>North Africa (NF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central America (CA)</td>
<td>South America (SA)</td>
</tr>
<tr>
<td>Europe (EU)</td>
<td>South East Asia (SE)</td>
</tr>
<tr>
<td>Hawaii (HA)</td>
<td>South Africa (SF)</td>
</tr>
<tr>
<td>Middle East (ME)</td>
<td>South Pacific (SP)</td>
</tr>
<tr>
<td>North America (NA)</td>
<td>West Pacific (WP)</td>
</tr>
</tbody>
</table>

*Table: 4-1 SELCAL Areas of Operation*

To apply for a SELCAL code(s), please refer to Section 5, “SELCAL Code Ordering Process”.
QUESTIONS

All questions regarding SELCAL codes should be directed to:

ASRI
SELCAL Registrar
2551 Riva Road MS 1-104
Annapolis, MD 21401-7435
Phone 410-266-4800
FAX 410-573-3003
info@asri.aero
www.asri.aero
SELCAL Code Ordering Process

For many years, ASRI had been assigning SELCAL codes on behalf of the International Civil Aviation Organization (ICAO) as a free benefit to the aviation community. However, as of July 2011, ASRI began charging a one-time, non-refundable processing fee of $100 for each SELCAL assignment as a means to offset the ever-increasing costs associated with administering the SELCAL service.

In conjunction with PayPal™, ASRI has developed a simple ordering process that is performed entirely from the ASRI website. PayPal provides a secure and effective method for credit card payments from anywhere in the world.

5.1 Notes about the SELCAL Ordering Process

1. The SELCAL ordering process must be completed from the website.
2. After completing your SELCAL Request Form, you will automatically be transferred to PayPal. Payment must be made through PayPal using any of the accepted means of payment authorized by PayPal, including major credit cards. However, a PayPal account is not required in order to pay for the SELCAL processing fee.
3. As part of the process, you will receive two separate confirmations: one for the completion of your SELCAL Request Form, and a payment receipt from PayPal. It is important to ensure that you receive both.
4. ASRI will process your SELCAL request after it receives both your Request Form and confirmation from PayPal that you have paid for your order.
5. After processing has been completed, ASRI will send SELCAL code information to you via email.

5.2 Steps for Obtaining a SELCAL Code

Step 1: Access the ASRI Website.

The process for ordering a SELCAL code is performed entirely from the ASRI website. To access ASRI’s website, enter http://www.asri.aero from your Internet web browser. The ASRI homepage (shown below) is displayed:
Step 2: Access the SELCAL Online Application.

To access the SELCAL Online Application from the ASRI homepage, scroll down the homepage until you reach the “Forms” section in the panel on the left side of the homepage, and click on “SELCAL Application”.

1. Scroll down the homepage until you see the “Forms” section

2. Click on “SELCAL Application”

The SELCAL Request Form is displayed.
Step 3: Enter Your Details in the SELCAL Request Form.

The SELCAL Request Form is used by ASRI to process your order for a SELCAL code. In addition to your contact details and details about your aircraft, the SELCAL Request Form asks for information about your area(s) of operation, the type of radio communications in which the SELCAL code will be used, and the numbers of SELCAL codes that you are requesting.

a. Enter your details directly into the SELCAL Request Form. Required fields are indicated by a red asterisk (*).
b. Scroll down to make sure you have entered all of the required information.
c. Enter in the number of SELCAL codes you are requesting.

Notes:
1) At least one area of operation must be selected.
2) There is a $100 processing fee for each SELCAL code. After you enter the number of SELCAL codes, the form automatically calculates the total fee owed for your request.
d. When you have completed entering your information, scroll down to the end of the form and press the “Submit Form” button:

An immediate confirmation containing a copy of your application is sent to you. At the same time, the following confirmation screen is displayed:
Step 4: Start the Payment Process.

Note: Your order will not be processed until ASRI receives confirmation that your order has been paid.

Review the online confirmation, and press the “Pay Now” button.
You are then transferred to the PayPal application and the following screen is displayed. This screen shows your order summary on the left and available payment options on the right.

Note: It is not necessary to have a PayPal account to pay for services using PayPal.

**Step 5: Enter and Submit Credit Card Information**

Regular customers of PayPal who have an account may select from the two payment options listed at the top right-hand side of the screen of the screen. For all others, the following steps apply.
a. Using the pull-down menu, select the country.
b. Click the “Credit Card” button.
c. Enter the credit card number.
d. Select the payment type.
e. Enter the expiration date.
f. Enter the CSC.
g. Enter the cardholder’s name and contact details.
h. Click the “Review and Continue” button.

When you have completed entering credit card and cardholder information, press the “Review and Continue” button. You will be given an opportunity to review and edit the information. When completed, click the “Submit” button and you will receive payment confirmation from PayPal.

5.3 Receiving Your SELCAL Code

Upon receipt of your order request and the confirmation from PayPal that you have paid for your order, ASRI will process your order and send you an email containing your SELCAL code.