



TASMA NEWS

Two Meter Area Spectrum Management Association

Frequency Coordination and Spectrum Management for Southern California

Regular General Meeting – Saturday, April 1, 2006

Chairman's Message Bob Dengler, NO6B

Fellow TASMA members:

For this newsletter I'm going to render a few thoughts about our old friend, the continuous tone coded squelch system. You know it better by the abbreviation "CTCSS", or for the commercial radio people or old-timers (guess I qualify now), "PL". As you may know by now TASMA requires CTCSS or some

other form of selective access for all new coordinations, and strongly encourages existing coordinations to consider moving towards CTCSS access. The reason for this is that the RF environment we live in is full of low-level signals. Some are from distant co-channel repeater users; others are unintentionally radiated from spurious transmitters & illegal unlicensed devices such as imported non-Part 15 cordless phones. The good news is that most of the time these undesired signals are fairly close to the noise floor & hence don't pose a real communications hindrance. However, a carrier-access repeater will repeat these signals, resulting in unnecessary transmissions & possibly illegal operation of the repeater, since retransmitting signals originating from another radio service is not permitted. Raising the squelch threshold of the repeater's receiver can block some of the undesired signals, but then the fringe coverage of the repeater is eliminated, as is much of the service area usable by HTs. By incorporating selective access such as the oh-so-common CTCSS feature found in all new amateur equipment, these weak nuisance signals can almost always be eliminated (we'll see later how there are occasional exceptions) without sacrificing coverage.

In a few circles there has been some reluctance to accept CTCSS access, and some of the reasons I've heard are legitimate & deserve some consideration. The "my radio doesn't have PL" excuse is NOT one of them. I added a CTCSS encoder to my first 2 meter radio, a Kenwood TR-

7600, about 25 years ago. Shortly after that I installed an encoder in my Tempo S1, the very first synthesized HT ever made for the 2 meter band. ANY old radio can be retrofitted with a CTCSS encoder even if it wasn't designed to accept one. Then again, in my opinion it's probably not worth it because there are now old 2 meter radios on the used market that still have built-in CTCSS capability that sell for little more than the cost of a CTCSS encoder board.

One argument against CTCSS access that does have some merit is the fact that CTCSS-equipped repeaters are harder for the traveling ham to find & use. There's certainly little argument that carrier access repeaters are easier to use since repeater offsets on 2 meters are pretty much standardized across the country (even if bandplans aren't), so once you've tuned in a carrier access repeater on your auto-shift-equipped radio, you can access it.

But there are ways to make a CTCSS-accessible repeater more available to the visiting ham. CTCSS tone frequency announcements transmitted with the repeater ID is one way. Another would be for the repeater to encode the same CTCSS tone that it requires on the input. Many radios sold today have a "CTCSS scan" feature that automatically finds the CTCSS frequency if it's present on the received signal. This does have the disadvantage of the out-of-town user having to activate the tone search to find the frequency.

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However, I think the best way to make open PL'ed repeaters easy to use is to STANDARDIZE open tone frequencies. Several regions of the country have been successful in this regard: Niagara Falls uses 107.2 Hz, Rochester NY uses 110.9. Within our service area, San Diego has been fairly successful in adopting 107.2 Hz as its open CTCSS tone, & the Ventura & Santa Barbara areas generally use 127.3 Hz with a few exceptions. However, the LA Basin & adjacent areas are less consistent: 103.5 Hz is fairly common but so are many others. A lot of Orange County systems use 136.5 along with 100.0 & 110.9 while San Bernardino & Riverside area systems use over a dozen different open CTCSS tone frequencies. I'd like to see open system owners in these areas change their access tone, settling on either 103.5 or 136.5 Hz. Due to the high concentration of systems in the basin there will no doubt be situations where using either of these tone frequencies won't be possible, in particular repeater pairs holding many low-level coordinations. But in most cases there really isn't any reason why this couldn't be done, so that someday we can just tell the vacationing ham to try 103.5 or 136.5 Hz when searching for repeaters to use in the LA Basin. So if your open repeater is using anything other than 103.5 or 136.5 Hz (or 107.2 Hz in San Diego & 127.3 in the northwest portion of our service area), ask yourself if there's any reason why you couldn't switch tones. Check our repeater list at <http://tasma.org/rptlst.htm> to see if there are other repeaters co-channelled with yours that are using the same tone. If you do decide to switch, be sure to send us an RFC update form, also available for download in PDF form from our web page. This form has just been revised & should now be much easier to complete.

Getting back to the benefits of using CTCSS access, I mentioned earlier that there are some situations where CTCSS doesn't always keep repeaters or users from hearing unwanted signals. Some repeater sites experience severe inter-modulation distortion (IMD) that causes a repeater's output signal to be converted to its input. Now if that repeater is encoding the same CTCSS frequency on its transmitter that it decodes for access, that encoded tone will appear on the input & cause the repeater to lock up, often with a hollow howling or screeching noise. The proper solution to this problem is to find the actual source of the IMD & eliminate it. But this isn't always immediately possible, especially when the source is in a passive element such as an antenna, tower joint or guy wire. It sounds like we're back to having to turn the carrier squelch up & knock out the weaker users. But there's a better solution: encode a DIFFERENT CTCSS tone on the output, so that when IMD causes it to show up on the input it doesn't hold the repeater open. The only problem with this is that in order for the users to be able to take advantage of decoding the CTCSS tone transmitted by the repeater, their radios must also be capable of encoding & decoding different CTCSS tones. Unfortunately, very few amateur radio manufacturers offer this feature in their equipment despite the fact that it's a zero cost feature - only a firmware change in the radio would be required to implement it. This makes different CTCSS tones, or "split-tone" operation undesirable to most repeater users

(note that Yaesu misuses this term, referring to hybrid CTCSS/DCS operation that all of their current production radios are capable of). This is most unfortunate, as there are many other possible uses for split tone operation. For example, a system of multiple repeaters on the same channel could use different access tones for each repeater, yet each repeater could encode the same tone so that anyone monitoring the channel would be able to hear the entire repeater system yet still use CTCSS decode to avoid hearing nuisance interference on the output frequency. A variation on this idea would be a single repeater with multiple remote receivers, each one using a different CTCSS tone for access instead of a more costly & complex voting receiver system. The actual receivers could be nothing more than dual-band transceivers set up at the homes of the repeater club's members, set up in cross-band repeat mode to uplink the repeater input to a 1 1/4 meter, 70 cm or 23 cm band link receiver at the repeater. Again, in order to be able to use such a repeater using CTCSS decode, the users' radios need to be able to encode & decode different tones.

I think it's time we all ask the amateur equipment manufacturers to put this split-tone capability into their radios so that we can have the flexibility to configure our repeater systems CTCSS-wise in whatever combination of tones we need to accomplish our respective goals. As of this writing only Alinco offers this capability, but I've found some issues with some of their current production radios (poor IMD rejection & CTCSS decoder performance) that make them, in my opinion, undesirable. Please send an e-mail or write a letter to your favorite manufacturer letting them know you want "different CTCSS encode/decode tones" or "split-tone" in the next, latest greatest FM mobile or HT it introduces.

Secretary's Message Lou Frank, KG6FCT

Hi to all of you that read this! On behalf of all the active members I would like to ask you (all the other members) to show your support in two easy ways, first the Band Plan. Review it at your club meeting and share it with your friends. How many know the frequencies for packet use and of course the one for APRS (Automatic Position Reporting System which was originally the Automatic Packet Relay System). Yes there is a frequency for cross band repeater use and many frequencies for use with Echolink, IRLP, and other forms of E-QSO. The Band Plan is not just for the repeater owners and operators, but for every one that uses the band. When you talk about the Band Plan ask the question does the Band Plan meet your needs? Talk about TASMA, after all we are here to help YOU enjoy the Two Meter Band!

The best way to support TASMA and express thanks to those that work so hard on the Technical Committee and Board of Directors is to be a member and support

membership growth. Help our membership grow, tell a friend, ask your buddies, see if you could find one person to join with you. There is a wealth of technical information among the members of the technical committee and the board, and all are eager to share this information. Send us an e-mail, ask a question. When was the last time you visited our web site? I am looking forward to seeing some membership applications. Don't disappoint me!!

**Next Meeting in Mission Viejo on
April 1st**

TASMA's first meeting of 2006 will take place at 9:30 AM on Saturday morning, August 13th in the Room 2 at the Norman P. Murray Community and Senior Center located at 24932 Veterans Way in Mission Viejo. Please arrive at 9:00 AM to take care of renewing your membership and avoid disrupting the meeting.

Take the I-5 to south Orange County exiting at La Paz Road. Turn east and proceed along La Paz Road for 1 1/4 miles, crossing Marguerite Parkway. Continue for two traffic signals (approx 1/2 mile) to Veterans Way on your left. Turn left and continue to the end of the road at the Community Center. Parking is on both sides of the building.

Coordinates = N 33.601, W 117.651.

The K6SOA repeater at 147.645 (PL = 110.9 Hz) will be monitored for assistance.



Agenda for TASMA General Meeting April 1st:

1. Registration
2. Call to Order
3. Introductions
4. Approval of Previous Minutes
5. Treasurer's Report
 - Budget Review
6. Correspondence Summary
7. Committee Reports:
 - Technical
 - TASMA database
8. Old Business
9. New Business
 - Open Forum
10. Next meeting date

Update Your E-Mail Address

Many of the e-mail addresses on our list are quite old and the Board is concerned that members may not be able to receive communication including the newsletter or the Reflector. Mike maintains the list based on addresses provided on membership renewal forms.

Recently, many people are changing from dial-up ISPs to broadband service. As a result, many e-mail addresses are becoming obsolete.

If your address has changed, please send a message to Mike Marin, WW6MM at ww6mm@soara.org.

Newsletter Announcement

Howard Brown, Editor

In a continuing effort to control costs, TASMA has elected to limit the newsletter to 1 oz. so that it can be mailed with minimum first class postage. This limits the mailed newsletter to 6 two sided pages. The full newsletter is available on the TASMA web site at <http://www.tasma.org>. The missing pages from the mailed copy will be noted in the table of contents.

General Meeting Minutes

TASMA 17 Dec 2005 General Meeting Minutes (Draft)

Location:

Walnut Library
21155 La Puente Rd.
Walnut, CA 91789

These Minutes Are Not Approved

Attendees:

Members:

KC6ACL	Patricia Finke
NO6B	Bob Dengler
KF6ECO	Konstantinos Kitsios
KG6ESC	Baltasar Cervantes
KG6FCT	Louis Frank
KG6GI	Howard Brown
N6NIK	Robert Vielma
KK6NJ	John Fleming
WH6UC	Benjamin Sanchez
N6WZK	Joe Pirrino
WW6Y	Art Pineda

Guests:

N6AA Dick Norton

Absentee Ballots:

W6UPN	Joseph Provenza
KB6LJQ	Jeff Hilmer
KB6OUM	James Fish

Note 1: Howard KG6GI provided a Power Point presentation for the meeting which was followed:

Note 2: Four (4) absentee ballots were presented and considered in the voting in accordance with the requirements of the Bylaws.

1. The meeting was called to order at 10:20 by Bob NO6B.
2. The minutes of the August 13, 2005 were reviewed. A motion was made to accept the minutes with the typographical corrections identified. Motion made

by Howard KG6GI, second by Lou KG6FCT, vote 9-0-0.

3. Financial Report presented by Howard KG6GI on behalf of Mike Marin who was absent due to illness. Slide showing assets to be \$3635.86 total, followed by a spread sheet showing the Income and Expenses for each quarter of 2005 and the year totals. (See attachment A). At the start of the year membership was 85. As of November 12 the current membership was 98.
4. The proposed meeting schedule for 2006 was reviewed.

Year 2006	Jan	Feb.	Mar.	Apr.	May	Jun.
Board Meeting	14 (Sat)		11 (Sat)			
General Meeting				1 (Sat)		
Technical Committee	28 (Sat)		25 (Sat)		13 (Sat)	

Year 2006	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
Board Meeting	8 (Sat)				4 (Sat)	
General Meeting		19 (Sat)				2 (Sat)
Technical Committee	29 (Sat)		30 (Sat)		11 (Sat)	

5. Summary of the correspondence handled in 2005, a total of 172 pieces of mail received as shown below.

Category	Period 1	Period 2	Period 3	Total
Absentee Ballots	14		2	16
Bank Statement	4	5	4	13
Business Card Advertisement	15	3	5	23
Other Solicitation			1	1
Mail Box Rental Notices		4		4
Insurance Invoice/Notice		2	2	4
Invoices			1	1
Membership Application	20	5	2	27
Delegate Member Application			1	1
Membership Renewal	15	2	14	31
Membership Renewal - Delegate	1	1		2
Newsletter	3	1	5	9
Note/Receipt From UPS Store			3	3
ARRL Payment	1			1
ARRL Donation Request	1			1
Proof of Newsletter Mailing	1	1	1	3
Returned Newsletter			1	1
RFC - Application	2	4	3	9
RFC - Update	6	4	6	16
Interference Claim/Response		5		5

Adjacent Coordination Advise	1	1		
Period/Year Total	83	38	51	172

- 6. Presentation of Database Report (Insert).
 - a. Repeater database updated through November 12, 2005
 - b. The repeater data for 2006 has been submitted to the ARRL.
- 7. The following proposed changes to the By-Laws to provide an official position for Internet Service Manager were presented. Motion to adopt these changes. Motion by Howard KG6GI, second by Pat KC6ACL, vote 9-0-0.

“Add to Section II.5. DUTIES OF THE CHAIRMAN, the following

- i. Shall appoint an Internet Services Manager.”, and add a new section III.4 the following:

“Section 4. INTERNET SERVICES MANAGER (Tentatively Amended 12-17-2005)

The Internet Services Manager (ISM) shall serve at the pleasure of the Chairman until replaced or terminated. The duties of the ISM are:

- a. The ISM shall prepare and submit an expenditure plan for inclusion in the annual budget.
- b. The ISM shall arrange and manage the services of an Internet Service Provider (ISP) and shall approve invoices associated with the ISP. The ISM will keep the Board advised of all agreements with the ISP.
- c. The ISM shall arrange for and maintain a domain name for TASMA.
- d. The ISM shall maintain mailing lists as requested by the Board and update these lists as required. The ISM shall moderate use of these lists in accordance with direction from the Board.
- e. The ISM shall arrange for a Webmaster to maintain a TASMA web site under the direction of the Board.
- f. The ISM shall maintain a file server for use by the Board, the Newsletter Editor, the Database Manager, the Technical Committee and other entities identified by the Board. Access privileges shall be maintained in accordance with Board direction.”

- 8. Election of officers. All of the current officers have agreed to run for another year and are on the ballot. Nominations from the members were open. Motion

to close nominations. Motion by Lou KG6FCT, second by Pat KC6ACL, vote 9-0-0, at vote 4-0-0. Since there was only one candidate per office position, Motion made to accept ballot with hand vote for all positions. The results are depicted below: Motion by Howard KG6GI, second by Pat KC6ACL, vote 9-0-0, at vote 4-0-0.

Chairman	Bob Dengler	NO6B
Vice Chairman	Pat Finke	KC6ACL
Secretary	Louis Frank	KG6FCT
Treasurer	Mike Marin	WW6MM
Member at Large	Howard Brown	KG6GI

9. New Business:

- a. NFCC (National Frequency Coordinator’s Council) completed their election. The following three Directors received the most votes and their term will be to the conclusion of the 2007 election.

Doug Sharp	K2AD	Colorado	16
Jay Maynard	K5ZC	Minnesota	105
John Gebhur	WB0CMC	Nebraska	95
		FC	

The remaining two elected Directors will serve to the conclusion of the 2006 election:

Eric Schmidt	KA5WMY	TXVHF	90
Rich Ranson	N9YAY	IL. RA	62

- b. Our South West Division Director, Dick Norton N6AA was present and shared a few words with the members. For information on emergency communications contact Allan G. Pitts WIAGP as suggested by Dick

10. Presentation of Road Maps by Bob NO6B.

- a. Photos of Bob’s trip to Dayton

11. Motion to adjourn at 12:00 . Motion by Lou KG6FCT, second by Pat KC6ACL.

Respectfully submitted by
 Louis Frank KG6FCT
 Secretary – TASMA

Board Meeting Minutes

TASMA 14 January Board Meeting Minutes

Location:

Norman P. Murray Community & Senior Center
 24932 Veterans Way
 Mission Viejo, CA 92692

These Minutes Were Approved On March 11, 2006

Attendees

Bob Dengler	NO6B
Patricia Finke	KC6ALC
Louis Frank	KG6FCT
Mike Marin	WW6MM
Howard Brown	KG6GI

1. Call to Order by Bob NO6B at 9:15 A.M.
2. ARRL required update of organization status. Mike WW6MM will go online and update the information for TASMA.
3. Internet Business.
 - a. A motion to send a letter to Jim Fortney K6IYK to inform him, based on his suggestions, that a formal position of Internet Services Manager has been created, and to thank him for all his past work and efforts on behalf of TASMA. Motion by Mike WW6MM, 2nd by Pat KC6ACL, vote 4-0-0.
 - b. Bob NO6B appointed Mike WW6MM as Internet Services Manager and Mike WW6MM has accepted. A motion was made to approve appointment. Motion by Howard KG6GI, 2nd by Pat KC6ACL, vote 3-0-1.
4. A review of all the data fields in our Master Repeater Data Base was conducted by Bob NO6B. Changes made in the Data Base fields to be presented to the board by Bob NO6B.
5. A review of the data fields required for the ARRL Repeater Directory against our Repeater Database data fields was conducted. Consideration shall be given to including Bi Lingual, Experimental, LiTZ, Remote Base, SNP (shared non-protected pair) and ARES affiliated fields to the data currently collected.
6. A review of the calendar of 2006, as shown below, was conducted.

Year 2006	Jan	Feb.	Mar.	Apr.	May	Jun.
Board Meeting	14 (Sat)		11 (Sat)			
General Meeting				1 (Sat)		
Technical Committee	28 (Sat)		25 (Sat)			

Year 2006	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
Board Meeting	8 (Sat)				4 (Sat)	
General Meeting		19 (Sat)				2 (Sat)
Technical Committee	29 (Sat)		30 (Sat)		11 (Sat)	

Lou KG6FCT is to arrange for the Board Meeting locations at the Norman P. Murray Community center; Bob NO6B is to ask Matt W6KGB to arrange for the Technical Committee Meeting locations and Bob NO6B is to arrange for the General Meeting locations. The General Meeting location on April 1st is to be in Walnut and the following meeting in Mission Viejo.

7. A review of the budget was presented by Mike WW6MM.
8. Review of the Technical Committee activity is to be conducted to determine the work load and correspondence backlog. A check of the backlog of incoming letters on the server is also to be included.
9. There is a need to determine the responsibility for the March newsletter. Howard grudgingly indicated he would evaluate if he could produce this newsletter.
10. NFCC Election update. Elections complete. Data is presented by Howard KG6GI.

The following three elected Directors received the most votes and their term will be from now, 12/01/05 to the conclusion of the 2007 election.

Doug Sharp	K2AD	Colorado FC	116
Jay Maynard	K5ZC	Minnesota MRC	105
John Gebhur	WB0CMC	Nebraska FC	95

The remaining two elected Directors will serve from now, 12/01/02 to the conclusion of the 2006 election:

Eric KA5WMY TXVHF 90
Schmidt

Rich N9YAY II. RA 62
Ranson

11. Motion to adjourn at 12:00PM was approved

Respectfully submitted by

Louis Frank KG6FCT
Secretary - TASMA

Technical Committee Highlights

Matt Lechliter, W6KGB



Hello again from TASMA's Technical Committee. We've begun the year with an average charge of items, mostly those continuing over from the latter half of 2005. So far everything seems to be running smoothly enough. My hopes are that we can continue to make strides this year.

Over the past year or so, we've had some items backlog & correspondence has not always been dispatched as it should. This is largely my fault due to personal problems and other complications. We've also been reorganizing ourselves a bit internally, and our Secretary Lou Frank (KG6FCT) has been working with our Database Manager Howard Brown (KG6GI) to both learn the ropes of TASMA TC work, and keeping me going & honest. Without getting into detail, I would like to say that the drained spirits that have affected me in the past shouldn't trouble me so much this year. I offer my apologies for the delays experienced previously in hearing from us.

Moving on to new developments, we have revisited a redesign of our RFC forms. For several years now, we've sought to simplify our forms for both your ease as the applicant & ours as those processing them. The need for this became stronger when we resolved to encourage as many systems as possible to submit updates if they had not done so recently. This would mean lots of paper to sort through if we'd received the desired response.

Alex Groza (WB6DTR), past Technical Committee Chairman (2003) and committee member (2001-2003), made a noble effort toward this end in 2003. The form was a single-page document that harvested most of the information

we were looking for, in contrast to the old system of 4 pages plus attachments. The new form had some deficiencies that were not immediately apparent however, and in 2004 we returned to the 'old system' of RFC forms RFC-01, -01a, -02 and -03 (plus attachments).

We hadn't taken enough time to discuss the form's makeup & therefore it didn't collect all the relevant data for us. There were also some "cosmetic" details that sometimes threw off the applicant or even us as committee members having to do with fields. This is not to say that Alex's form was bad; he did a good job of putting something together first-off based on what he saw as needed. We simply didn't give him enough feedback as a group to help refine it.

We decided this year to revisit a new RFC design. The primary mistake we made previously in revamping the form was not synchronizing the RFC form's "data mining" with our database structure's fields. This meant we had a mixture of irrelevant data and a lack of other needed data. The new iteration seeks to fix this. Bob (NO6B), our TASMA Chairman, has laid out a template that we can work from. The revised form will be available shortly. It will be available in PDF on the website (<http://www.tasma.org/>) in the "Forms and Procedures" section.

The following figures illustrate the front and rear sides of the form. They will be available shortly from the TASMA web site,

TASMA
Two Meter Area Spectrum Management Association
Frequency Coordination & Spectrum Management for Southern California
1439 W. Chapman Ave. PMB 90
Orange, CA 92868
<http://tasma.org>

Request for Coordination
Form RFC updated 3/2006

New application Update Date prepared / / 20__ Repeater call sign

Applicant Contact Information (holder of coordination)
Individual or club that will be the sole entity that can request changes to the coordination

Name _____ Call _____
Address _____ City _____
State _____ Zip _____ eMail _____
Phone _____ Alternate phone _____

Trustee Contact Information

Name _____ Call _____
Address _____ City _____
State _____ Zip _____ eMail _____
Phone _____ Alternate phone _____

Alternate Contact Information (specify type of contact) Administrative Technical

Name _____ Call _____
Address _____ City _____
State _____ Zip _____ eMail _____
Phone _____ Alternate phone _____

Figure 1 – Revised Request for Coordination - Side 1

Repeater Site Information			
General location (will be published in TASMA web listings & ARRL repeater directory after granting of full coordination)			
Specific location (will not be published)			
Latitude (degrees-minutes-seconds)	Longitude (degrees-minutes-seconds)		
Site elevation (ground level, ft.)			
Technical Information			
Output frequency (requested freq. if new application)	Input frequency (requested freq. if new application)		
System type (check one)	Open <input type="radio"/>	Closed <input type="radio"/>	Private <input type="radio"/>
Access method (circle one)	carrier	CTCSS	DCS DTMF other (updates only)
Emission (circle one)	NBFM	other	Transmit power out of equipment, into feedline (watts)
Transmit Antenna Information			
Feedline type	Feedline diameter (in.) (if hardline/helias)	Feedline length (ft.)	Feedline loss (dB/ft.)
Antenna make/model (indicate heading if directional)	Antenna gain (dBi) (dB=dBd+2.1)	Antenna height above ground (ft.)	
Receive Antenna Information (leave blank if duplexing on one antenna)			
Feedline type	Feedline diameter (in.) (if hardline/helias)	Feedline length (ft.)	Feedline loss (dB/ft.)
Antenna make/model (indicate heading if directional)	Antenna gain (dBi) (dB=dBd+2.1)	Antenna height above ground (ft.)	
Additional Information for ARRL Repeater Directory Publication			
The following information will be provided to the ARRL for inclusion in the next repeater directory after a final coordination is issued.			
Repeater sponsor (limit to 10 characters)			
Circle all special features	closed autopatch	emergency power	linking
	solar power	wind power	portable
			LITZ
			direct access to law enforcement
			RACES ARES RTTY packet
			multilingual (languages)
I certify that the information I have provided on this form is accurate to the best of my knowledge, and that the repeater for which I am requesting coordination meets or exceeds official TASMA technical specifications.			Signature

Figure 2 – Revised Request for Coordination - Side 2

We've also selected a new meeting location that should be more central to everyone. As it sits, it's fairly centralized for the majority of the committee members as was the primary goal. The Red Cross Chapter of Santa Monica has been very accommodating in providing their rooms for meetings. Please see the January or March TC meeting agendas for the new address.

That's about all I have at the moment, but stay tuned...

Transfer of Coordination

The Technical Committee has recently updated its policy regarding transfer of Coordinations upon the sale or transfer of responsibility for a repeater.

1. The Technical Committee (TC) is an appointed coordination board that processes a Request for Coordination (RFC) using policies established by the Board and the Technical Committee.

2. The TC views a coordination as an agreement between TASMA and the applicant (Trustee) establishing all the conditions of the coordination. Unilateral changes in any terms of the Coordination, including surrendering the Coordination, voids the Coordination. Under this policy, Coordinations are not transferred or sold. When a Trustee terminates their interest in a Coordination, for whatever reason, the Coordination itself is terminated. In the case of a sale, the buying party must submit a new complete Request for Coordination, which usually happens coincident with the

notification by the releasing Trustee. The new RFC is then considered in the normal course of business. When control of a repeater is transferred between trustees and/or owners, the frequency is not available for other coordination applications including those on the waiting list.

3. The TC requires that each RFC be a complete document as this is the only practical way to maintain the accuracy of the database and fully establishes the basis of the agreement between TASMA and the Trustee. In order to protect the interest of the coordinees and future coordination applicants, TASMA must have accurate location, technical and administrative information.

4. Upon approval by the TC, the Coordination embodies the RFC as the terms of the Coordination. Thus, it is essential that the approved RFC fully describes all aspects of the system.

Technical Committee Meeting Minutes

TASMA 28 Jan Technical Committee Meeting Minutes

These Minutes are Not Approved

Location:

**Red Cross Santa Monica Chapter
1450 Eleventh Street
Santa Monica, CA. 90404**

- Meeting called to order by Matt W6KGB at 9:45 AM.
- Technical Committee attendees:
 - Matt Lechliter W6KG Chairman
 - Howard Brown KG6GI Database manager
 - Louis Frank KG6FCT Secretary
 - Bob Dengler NO6B ex-officio member
 - John Fleming KK6NJ Member
 - Joe Parrino N6WZK Guest
 - Mark Christian KB6SRT Guest
- Review and corrected Technical Committee Minutes of 11-12-2005. Motion to approve minutes as corrected. Motion made by Lou KG6FCT, second by Howard KG6GI vote 3-0-0.
- Continued Business from Previous TC Meeting:
 - 146.730 K0JPK Rio Hondo Peak – Received an E-Mail from Carl Moore K0JPK on 11/05/2005 stating that Richard Granado WA6QWI is the new trustee. Motion that Richard be sent a letter requesting a new RFC-01 form to be completely filled out and returned with a signed letter from Carl releasing trusteeship. In addition to the coordinated PL tone of 103.5, members of the Technical committee have observed this

repeater responds to multiple PL tones 118.8, 156.7, and 182.2. A single (preferred) or multiple tones should be specified in the RFC forms. Motion by Howard KG6GI, second by Lou KG6FCT, vote3-0-0.

- b. **145.380 N6LWO** Point Loma - Change of Trustee request. Received an E-Mail from Tony Di Bona N6LWO on 5/31/2005 stating that Robert Swain KA6JSR is the new trustee. Motion that Robert D. Swain be sent a letter requesting a new RFC-01 form to be completely filed out and returned with a signed letter from Tony Di Bona releasing trusteeship. Motion by Howard KG6GI, second by Lou KG6FCT, vote3-0-0.
- c. **147.330 K6BB** Big Bear - Change of Trustee request. An RFC-01 form dated 6/7/2005 indicates the new trustee is Glen T. Langer W6GTL. . Motion that Glen be sent a letter requesting a fully completed coordination form package (form RFC-01, 02, 03, HAAT calculation, system block diagram, and coverage map), and returned with a signed letter from the releasing trustee. The RFC-01 should clearly indicate if this coordination is to be assigned to an individual or club. Motion by Howard KG6GI, second by Lou KG6FCT, vote3-0-0.
- d. **146.745 K6CHE** Reservoir Hill – New RFC. The forms RFC-01, RFC-02, and RFC-03 were received December 15, 2005 and review by the committee. Motion to return the form package because of missing information and request it be resubmitted with all the information. Letter to Casey Chel KD6DOV. Motion by Howard KG6GI, second by John KK6NJ, vote 3-0-0.
- e. **147.225 K6JHX** Castro Peak – Change of ownership and general update. The RFC received September 12, 2005 was reviewed and considered incomplete. Motion to send Steve Brtis WA6FGW be sent a letter requesting a fully completed coordination form package (form RFC-01, 02, 03, HAAT calculation, system block diagram, and coverage map). Motion by Howard KG6GI, second by John KK6NJ, vote 3-0-0.
- f. **146.265 K6DLX** Willits Ridge –The repeater is back on the air and this has been verified by Bob NO6B Motion to send thank you letter for there cooperation.

Motion by Howard KG6GI, second by John KK6NJ, Vote 3-0-0.

- g. **147.210 K6JSI** Sunset Ridge – Test coordination review, system operational status. [60- days are up] The technical committee could not verify operation of the repeater. The coordination requires that the repeater be on the air. Motion that the repeater owner has 60 days to get the repeater back on the air for the test coordination to begin. The test period of 9 months will start on this meeting date of January 28, 2006. A letter is to be sent to Jeffrey Stouffer K6JSI. Motion by John KK6NJ, second by Lou KG6FCT, vote 3-0-0.
- h. **147.615 NH2R** Running Springs-Administrative Update Motion that Robert Vielma N6NIK be sent a letter requesting a fully completed coordination form package (form RFC-01, 02, 03, HAAT calculation, system block diagram, and coverage map), and the RFC-01 should clearly indicate if this coordination is to be assigned to an individual or club. Motion by Howard KG6GI, second by John KK6NJ, vote 3-0-0.
- i. **145.440 NH2R** Mt. Palomar-Administrative Update Motion that Robert Vielma N6NIK be sent a letter requesting a fully completed coordination form package (form RFC-01, 02, 03, HAAT calculation, system block diagram, and coverage map), and the RFC-01 should clearly indicate if this coordination is to be assigned to an individual or club. Motion by Howard KG6GI, second by John KK6NJ, vote 3-0-0.

5. Confirm Final Coordination:

- a. **147.150 AE6NX** Thousand Oaks – Review of test coordination. No interference complaints have been received. Motion made to grant final coordination. Motion by John KK6NJ, second by Howard KG6GI, vote 3-0-0.

6. Interference Complaints:

- a. **147.420 AA6RJ** Palos Verdes-Interference with 147.435 at Contractor's Point. The complaint is by Jeff Stieglitz AE6NZ. Motion made to send letter that we are sorry for the slow response and would like to verify the interference still exists and occurs in your primary coverage area. Members of the tech committee will then conduct independent measurements.

Motion by Howard KG6GI, second by Lou KG6FCT, vote 3-0-0.

7. New RFCs and Updates:

- a. **144.895 KK6NJ** Crestline- Updated RFC (as previously requested). Tabled waiting for submission of RFC.
- b. **147.435 AE6NZ** Contractor's Point-Administrative Update. Received submitted RFC transferring total ownership to Jeff Stieglitz AE6NJ. Motion made to accept the transmittal documents. Motion by Lou KG6FCT, second by John KK6NJ, vote 3-0-0.
- c. **145.400 N6FL** Black Mountain (Ojai)-Change of ownership. Review of submitted documents. The site has been visited by Matt W6KGB. This is a change of trustee to Wayne Francis W6OEV. Motion that Wayne W6OEV be sent a letter requesting a fully completed coordination form package (form RFC-01, 02, 03, HAAT calculation, system block diagram, and coverage map), and returned with a signed letter from the releasing trustee. The RFC-01 should clearly indicate if this coordination is to be assigned to an individual or club. Motion by Howard KG6GI, second by Lou KG6FCT, vote 3-0-0.

8. New Business:

- a. Request to be placed on the "Waiting List" for a frequency pair was received from Joe Parrino N6WZK for a repeater on Mt. Harvarp.
- b. Review of the "Backlog of Action Items" that have not been acted on will be conducted by Matt W6KGB and reported on at the next meeting.
- c. Motion that the technical committee adopt and is now following a policy of requiring a complete RFC Package (form RFC-01, RFC-02, RFC-03, ERP & HAAT calculation, system block diagram, antenna radiation pattern, user coverage map and amateur radio license) with a change in ownership and/or trustee of a repeater. This is to insure the both the applicant and TASMA has accurate records at the time of coordination transfer. Motion by Lou KG6FCT, second by John KK6NJ, vote 3-0-0.

9. Meeting Adjournment call for by Matt at 2:52 PM.

Louis Frank KG6FCT, Secretary

Summary of TASMA Technical Committee Actions through January 28th

Report for period November 2005 to January 2006

Covers the following TC meetings:

- November 12th, 2005
- January 28th, 2006

A. Final Coordination issued:

1. KK6NJ (147.180+) – Chatsworth Peak.
2. AE6NX (147.150+) – Thousand Oaks.

B. Final Termination Notices issued:

1. None.

C. Intent-to-Terminate or Off-the-Air notices issued:

1. K6DLX (146.265+) – Willits Ridge.

D. Test Coordination issued:

1. K6JSI (147.210+) – Sunset Ridge. (Start 07/30/2005, res. 01/28/2006 – 9 months)
2. K6CHE (146.745-) – Reservoir Hill. (Start 11/12/2005 – 4 months)

E. Test Coordination cancelled

1. None.

F. Repeaters in Test Status:

1. K6JSI (147.210+) – Sunset Ridge. (Start 07/30/2005 – 9 months)
2. K6CHE (146.745-) – Reservoir Hill. (Start 11/12/2005 – 4 months)
3. W6CPD (147.225+) – Corona. (Start 09/17/2005 – 4 months)

G. Interference Problems

1. None.

H. RFC Updates:

1. AE6NZ (147.435/146.400) – Contractor's Point. (Administrative Update)
2. K6DCS (147.225+) – Castro Peak. (Update & Transfer of Ownership)
3. NH2R (145.440-) – Mt. Palomar. (Administrative Update)
4. NH2R (147.615-) – Running Springs. (Administrative Update)
5. N6LWO (145.380-) – Point Loma. (Administrative Update)
6. K6BB (147.330+) – Big Bear. (Administrative Update)
7. N6SLD (145.220-) – Santiago Peak. (Administrative/Building Location Update)
8. KC6PXL (145.120-) – Contractor's Point. (General Update / Files 'Rehash')

I. New RFCs:

1. K6CHE (146.745-) – Reservoir Hill. (New RFC)

TASMA

Two Meter Area Spectrum Management Association
Frequency Coordination & Spectrum Management for Southern California

1439 W. Chapman Ave. PMB 90
Orange, CA 92868
<http://tasma.org>

2 Meter Band Plan Summary

<p>FM Simplex Frequencies (no internet linking)</p> <ul style="list-style-type: none">•144.310-144.375•144.405-144.490•145.510-145.590•146.430 (ATV voice)•146.445•146.460 (remote bases)•146.520 (calling freq.)•146.535•146.550•146.565 (T-hunts)•146.580•146.595•147.480•147.510•147.525•147.540•147.555•147.570	<p>Packet Frequencies</p> <ul style="list-style-type: none">•144.390 (APRS)•144.970•144.990•145.010•145.030•145.050•145.070•145.090•145.610•145.630•145.650•145.670•145.690	<p>Internet Linking Frequencies (IRLP, Echolink, eQSO)</p> <ul style="list-style-type: none">•145.710•145.725•145.740•145.755•145.770•145.785
		<p>Crossband Repeater Frequency</p> <ul style="list-style-type: none">•144.910
<p>Portable Repeater Pair for Special Event & Emergency Use</p> <ul style="list-style-type: none">•147.585 input 144.930 output		

The full Two-meter bandplan can be found at <http://www.tasma.org/bp0504.pdf>

2006 First Quarter Financial Report

Mike Marin, WW6MM

This first two months of the year had been very slow in activity, with no expenses being claimed and with only four membership forms being received. Therefore, instead of the traditional financial report I'm including the 2006 budget and a comparison with the last six years. As you can see in the report, four of the last six years were in red, and that was the base for last year fee increase. Last year fee increase took place late in the year, and so was not enough to avoid going into red; but, its effect was to reduce the loss to a small amount. The real effect of the fee increase will be felt this year, as the budget shows we expect a positive 183 dollars net for 2006.

The change of bylaws will allow future board of directors more flexibility to maintain a balanced budget. By removing a fixed fee amount in the bylaws and giving the board the ability to propose fee changes and the membership the right to approve or reject them, the new bylaws give the board more flexibility to manage the income part of the budget.

Another change for 2006 is that of the Internet Services Manager. That is the new position that was added to the bylaws in the last general meeting of 2005. The idea was to formalize a position that is becoming critical to the success of TASMA. For the past few years, TASMA have become very dependent of online services. The web site and the emailing list (reflector) are two services that are important for TASMA business and have high visibility with the membership. In addition, the technical committee and the board heavily use internal emailing lists and all the data for RFCs, membership, financial, etc. is maintained in an internal ftp site. The administration of those resources is important for the organization.

For the past few years, Jim Fortney (K6IYK) has done an excellent job at managing the TASMA Internet services. With the creation of the Internet Services Manager position as a formal position in the bylaws appointed by the chairman, I was given the opportunity to fill the position for this year. Jim not only had done an excellent job during the past few years managing the Internet services, but he has also help me with the transition of responsibilities in a timely fashion. I'm looking forward to serve TASMA in that position for this year, in addition to my duties as treasurer and with the membership records.

Balance Sheet (3/5/2006)

Assets	Total
Bank and Cash Accounts	
Checking Account	\$3,491.43
Total Bank and	<u>\$3,491.43</u>
Cash Accounts	
Total Assets	\$3,491.43
Net Worth	<u>\$3,491.43</u>

Two-Meter Area Spectrum Management Association
YEAR 2006 BUDGET

	2000	2001	2002	2003	2004	2005	Proposed Budget for 2006				
	Actuals	Actuals	Actuals	Actuals	Actuals	Actuals	1st QTR	2nd QTR	3rd QTR	4th QTR	Year Totals
INCOME											
Dues - Regular	\$1,665.00	\$1,030.00	\$2,590.00	\$630.00	\$760.00	\$985.00	\$255.00	\$315.00	\$315.00	\$315.00	\$1,200.00
- Delegate	\$0.00	\$200.00	\$170.00	\$220.00	\$140.00	\$230.00	\$60.00	\$80.00	\$80.00	\$80.00	\$300.00
ARRL Repeater Directory-Other	\$300.00	\$281.00	\$310.00	\$272.00	\$307.00	\$276.00	\$276.00	\$0.00	\$0.00	\$0.00	\$276.00
TOTAL INCOME	\$1,965.00	\$1,511.00	\$3,070.00	\$1,122.00	\$1,207.00	\$1,491.00	\$591.00	\$395.00	\$395.00	\$395.00	\$1,776.00
EXPENSES											
Newsletter Expenses - Total	\$298.66	\$980.43	\$633.49	\$1,571.31	\$397.00	\$416.14	\$0.00	\$141.00	\$141.00	\$141.00	\$423.00
<i>Printing</i>		\$120.31	410.64	1041.04	\$259.64	\$273.44	\$0.00	\$91.00	\$91.00	\$91.00	\$273.00
<i>Postage</i>		\$165.00	\$199.93	\$508.85	\$113.59	\$142.70	\$0.00	\$43.00	\$43.00	\$43.00	\$129.00
<i>Labels/Masters</i>		\$13.35	\$22.92	\$21.42	\$23.77	\$0.00	\$0.00	\$7.00	\$7.00	\$7.00	\$21.00
Articles/Bylaws Expenses - Total	\$103.93	\$2.50	\$122.75	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<i>Printing</i>		\$37.93	\$21.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<i>Postage</i>		\$66.00	\$101.75	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Mail Service - Total	\$269.57	\$362.31	\$238.35	\$301.98	\$201.29	\$365.90	\$12.00	\$12.00	\$279.00	\$12.00	\$315.00
<i>PO Box Rental</i>		\$168.00	\$192.00	\$192.00	\$197.00	\$192.00	\$0.00	\$0.00	\$192.00	\$0.00	\$192.00
<i>Forwarding</i>		\$101.57	\$46.35	\$75.00	\$0.00	\$145.00	\$0.00	\$0.00	\$75.00	\$0.00	\$75.00
<i>Mileage</i>				\$14.80	\$0.00	\$0.00	\$5.00	\$5.00	\$5.00	\$5.00	\$20.00
<i>Mail Distribution</i>				\$20.18	\$4.29	\$28.90	\$7.00	\$7.00	\$7.00	\$7.00	\$28.00
Liability Insurance	\$0.00	\$327.00	\$327.00	\$331.40	\$325.00	\$325.00	\$0.00	\$325.00	\$0.00	\$0.00	\$325.00
Incorporation Expense	\$10.00	\$20.00	\$0.00	\$20.90	\$0.00	\$20.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Tech Comm Expenses - Total	\$26.95	\$377.00	\$158.60	\$180.00	\$210.00	\$50.00	\$95.00	\$95.00	\$65.00	\$95.00	\$350.00
<i>Reproduction</i>		\$0.00	\$20.75	\$0.00	\$0.00	\$0.00	\$6.00	\$6.00	\$6.00	\$6.00	\$24.00
<i>Postage</i>		\$7.82	\$65.72	\$0.00	\$0.00	\$0.00	\$16.00	\$16.00	\$16.00	\$16.00	\$64.00
<i>Telephone</i>			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<i>Supplies</i>		\$19.13	\$72.13	\$0.00	\$0.00	\$0.00	\$18.00	\$18.00	\$18.00	\$18.00	\$72.00
<i>Meeting Room Rental</i>				\$180.00	\$210.00	\$30.00	\$0.00	\$30.00	\$0.00	\$30.00	\$60.00
<i>Mileage</i>		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25.00	\$25.00	\$25.00	\$25.00	\$100.00
<i>Tools</i>				\$0.00	\$0.00	\$20.00	\$30.00	\$0.00	\$0.00	\$0.00	\$30.00
Travel Expenses	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Bank - Fees				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Internet Expenses - Total	\$68.00	\$414.00	\$240.00	\$335.00	\$215.00	\$240.00	\$0.00	\$0.00	\$0.00	\$240.00	\$240.00
Miscellaneous Expenses - Total	\$136.46	\$246.61	\$213.10	\$92.53	\$92.57	\$179.59	\$0.00	\$30.00	\$0.00	\$30.00	\$60.00
<i>Chairman Expenses</i>		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<i>Vice-Chairman Expenses</i>		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<i>Secretary Expenses</i>		\$16.15	\$5.35	\$39.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<i>Treasurer Expenses</i>		\$30.34	\$33.87	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<i>General Postage Expenses</i>		\$53.19	\$61.13	\$0.00	\$52.32	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<i>General Repro Expenses</i>		\$11.78	\$7.75	\$0.00	\$12.25	\$119.59	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<i>GM Meeting Room Rental</i>					\$30.00	\$60.00	\$0.00	\$30.00	\$0.00	\$30.00	\$60.00
<i>Unclassified Expenses</i>		\$25.00	\$105.00	\$52.70	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL EXPENSES	\$913.57	\$2,729.85	\$1,933.29	\$2,833.12	\$1,440.86	\$1,596.63	\$107.00	\$603.00	\$485.00	\$518.00	\$1,713.00
NET FOR YEAR	\$1,051.43	(\$1,218.85)	\$1,136.71	(\$1,711.12)	(\$233.86)	(\$105.63)	PROJECTED NET FOR 2006				\$63.00
Reserve at beginning of year	\$4,512.89	\$5,564.32	\$4,345.47	\$5,482.04	\$3,770.92	\$3,537.06	Reserve at beginning of year				\$3,431.43
Reserve at end of year	\$5,564.32	\$4,345.47	\$5,482.18	\$3,770.92	\$3,537.06	\$3,431.43	Projected reserve at end of year				\$3,494.43

2006 First Quarter Membership Report

Mike Marin, WW6MM

For 2005, the membership goal was to reach a hundred members, and we were five members shy of that goal, for a total of 95 members at the end of 2005. There were also eight expired memberships in the 90 days grace period at the end of 2005. So, we started 2006 with 95 members plus eight members in their grace period.

The 2006 budget is based on a similar goal of a hundred members by the end of the year. As we demonstrated last year the goal is achievable if we all introduce more hams to TASMA and the need to keep and promote two meter activity by having a current bandplan that reflect the use of the band and avoiding problems by frequency coordination. However to achieve those goals, in addition to new members, TASMA needs more volunteers to better serve the local amateur radio population.

The first few month of a new year in TASMA are traditionally slow on capturing members or renewals. This year has not been an exception, with only four membership forms received so far. In addition ten memberships had

expired in this period, and so the current membership is just 86 members.

March 5, 2006

2006 Initial Membership	95
Current Membership	
Expired members	
In grace period (90 days)	5
Expired (more than 90 days)	5
Resignations / S.K.	0
New and renew members	
Renewals	0
New members	1
Total Current Membership (03/05/2006)	86

2006 Schedule of Meetings

The following schedule has been established for TASMA's 2006 activities. The current Board hopes to adhere to this plan but it may have to be adjusted to allow for personnel and meeting space availability.

Year 2006	Jan	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
Board Meeting	14 (Sat)		11 (Sat)				8 (Sat)				4 (Sat)	
General Meeting				1 (Sat)				19 (Sat)				2 (Sat)
Technical Committee	28 (Sat)		25 (Sat)		13 (Sat)		29 (Sat)		30 (Sat)		11 (Sat)	

TASMA
PMB 90
1439 W. Chapman
Orange, CA 92868

Address Correction Requested

Remember: 2006, the year to rebuild Association membership!

NOTICE: The next General Membership Meeting is at 10:30 AM, Saturday, April 1, 2005 at the Walnut Library. Check in starts promptly at 10:00.

You can contact your board members at the following:

Chairman:	Bob Dengler, NO6B	909/396-0991	no6b@rprrlist.w6jpl.ampr.org
Vice Chairman:	Pat Finke, KC6ACL	562/436-6732	kc6acl@hotmail.com
Secretary:	Louis Frank, KG6FCT	949/206-1986	kg6fct@soara.org
Treasurer:	Mike Marin, WW6MM	949/472-9886	ww6mm@soara.org
Member at Large:	Howard Brown, KG6GI	949/581-2634	kg6gi@soara.org

Technical Committee Members:

W6KGB	Matt Lechliter, Chairman	805/485-1398	w6kgb@aldelphia.net
KG6FCT	Louis Frank, Secretary	949/206-1986	kg6fct@soara.org
KG6GI	Howard Brown	949/581-2634	kg6gi@soara.org
KC6ZQR	David Tello		d.tello@sbcglobal.net
WW6Y	Arturo Pineda		ww6y@juno.com
KK6NJ	John Fleming	562-928-9353	kk6nj@yahoo.com
NO6B	Bob Dengler – ex-officio member	909/396-0991	no6b@rprrlist.w6jpl.ampr.org

Technical Committee Advisors

AD6IJ	James Eason	909/883-3983	ad6ij@yahoo.com
K6OQK	Burt Weiner		biwa@earthlink.net
K6RLV	John Austin	619/871-3025	jaustin5@cox.net
N6CKS	Rory Bowers	760/356-3575	rbowers@direcpc.com
W6UPN	Joe Provenza	310/421-5996	w6upn@arrl.net
WB6DTR	Alex Groza		alexg01@cox.net
WD6APP	Chuck Wood	619/298-5415	woodchuck1@cox.net
XE2IO	Alejandro Hodoyan	664/704-7070	ahodoyan@telnor.net

Database Manager

KG6GI	Howard Brown	949/581-2634	kg6gi@soara.org
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Visit the TASMA Web Page at: www.tasma.org

This newsletter is intended to keep all TASMA members informed. Anyone wishing to submit articles for the TASMA newsletter may do so by the 1st of the month preceding the month of a General Membership meeting. Please send your article by E-mail the Secretary at the [e-mail address found on the TASMA Web Page](mailto:kg6fct@soara.org). The document should be in Microsoft Word format.