



Internal Review of the Proposal Panel Review Process

guide prepared for software version 0.2

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1 | Purpose of This Document

This document is intended to describe the functionality of the Proposal Panel Review (PPR) process in the Telescope Time Allocation (TTA) tools from the perspective of the Science Review Panel (SRP) Member and the SRP Chair. As this is an early release of the tools, care is given in this guide to note the expected behavior and the limits of the application. The *Telescope Time Allocation: System Description* and *Telescope Time Allocation: Algorithms* documents are the authority on definitions and implementation details of the tools.

This document is applicable for the version 0.2 release and the internal review by the NRAO and GBO staff. Note, this document does not detail the TTA Group Member or Feasibility (e.g., Technical) Reviewer role in the PPR process. A previously prepared guide details the Proposal Creation process.

The proposals in this guide are synthetically generated: proposal data¹ is generated with no relation to actual proposals submitted to the NRAO. Proposal titles are randomly drawn from publicly available proposal metadata or randomly generated. Any similarity to proposals submitted to the NRAO is by coincidence; the review material in this document is for demonstration purposes only and should not be interpreted as a real review of a proposal.

¹See the NRAO's data policy at https://science.nrao.edu/observing/policies/docs/manuals/users-policy/.

2 | Overview of Review Process

A detailed overview of the *Proposal Panel Review* (PPR) process is available on-line at https://science.nrao.edu/observing/proposal-types/proposal-review-system. Note, the TTA tools' implementation of the PPR process follows dual anonymous peer review guidelines; information that can identify the authors has been redacted (e.g., name, institution).

The PPR process consists of different phases and sub-phases, and this guide discusses the *Review Process* phase, which encompasses the *Individual Science Reviews* sub-phase and the *Consensus Reviews* sub-phase. Section 3 provides a brief guide for Science Review Panel (SRP) Members during the *Individual Science Review* sub-phase, while Section 4 details the *Consensus Review* sub-phase. A SRP Chair assumes all responsibilities and capabilities as a SRP Member, with a few additional ones outlined in Section 5. Figure 2.1 depicts the key sub-phase transitions and responsibilities for the SRP Chair and SRP Member.

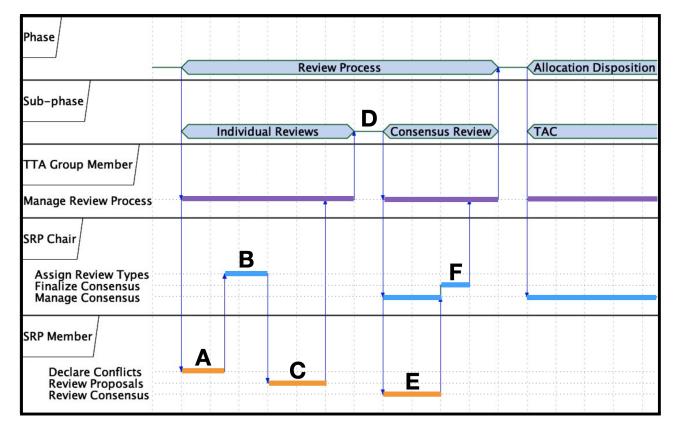


Figure 2.1: Overview of important sub-phase transitions and responsibilities for the SRP Members and SRP Chair within the *Review Process* phase. The bold letters indicate the actions a TTA member, SRP member, or SRP Chair must take to advance the system.

- A SRP member can certify their conflicts (§ 3.1 3.3);
- B SRP Chair can assign REVIEW TYPES to reviewers (§ 5.1);
- C SRP members can enter and finalize their *Individual Science Reviews* (§ 3.4 3.6);
- D TTA member can initiate the Consensus sub-phase on a per-panel basis;
- E SRP member can complete the Consensus Reviews (§ 4.1 4.4);
- F SRP Chair can finalize the Consensus Reviews (§ 5.4).

3 Individual Science Reviews

3.1 Logging in and accessing the Review Process

NRAO/GBO TELESCOPE T	Tiew Proposals for Review		
Request or review the time allocated to the NRAO and GBO radio telesco Jansky Very Large Array (VLA) Oreen Bank Telescope (GBT) Very Long Baseline Array (VLBA) High Sensitivity Array (HSA) Global Millimeter VLBI Array (GMVA) Form information about proposing for the Atacama Large Millimeter/Subn			+ Create a Proposal View Past Awarded Proposals
OPEN SOLICITATIONS		MY PROPOSALS	View All Proposals »
sams special solicitation	Demo GBT VLA	The First Galactic Quadrant Supernova Remna	ant Population In Review
CALL PERIOD EXECUTION I Sat 1 st Fri 24 th Mon 2 ^{std} JAN 2022 to DEC 2032 JAN 2023 to	PERIOD PROPOSALS Fri 3 rd O FEB 2023 View	SOLICITATION ahc-60-1	AUTHORS C Jeff Kem (PI) Edit
		MUSTANG Galactic Plane survey: The inner Ga	alaxy In Review

Figure 3.1: Select your user account from the drop-down menu. For this review, select an account without the 'TTA' label. Once logged in, select the Reviews tab.

3.2 Accessing the Science Review Panel

	TELESCOPE TIME ALLOCATION		user jwt Loreto Barcos Muñoz 🔹
😭 Home	🖺 Proposals 🛛 🚝 Reviews		
Solicitations	ahc-60-1	😩 Panel Proposal Review	
List	Sem_24B	A Panel Proposal Review	
	Sem_26A	A Panel Proposal Review	atom Massage
	Sem_26B Select a Solicitation	Arron Proposal Review	ystem Messages
			1 system message(s)
	TELESCOPE TIME ALLOCATION		USER JWT Loreto Barcos Muñoz V
倄 Home	🖹 Proposals 🛛 🚝 Reviews		
Solicitations	Sem_26B	FACILITIES CALL PERIOD GBT VLA Sat 1st Fri 24t JAN 2022 to DEC 203	
	Panels Select Panel List	Gravitational waves and energetic translents	🚢 6 🛛 🖺 15
			1 system message(s)

Figure 3.2: Only Solicitations for which a SRP Member has an active role in the Review Process are displayed. Selecting a row will expand the row to show the Science Review Panel. Note, there may be only one Solicitation in the list.

Note

For this review, select the Solicitation specified in the instructions.

3.3 Declaring Conflicts

GWT SOLICITATION SCIENCE CATEGORIES Sem_26B Gravitational waves and energetic transients	📽 6 📲 15 🛱 Loreto Barcos Muñoz
Individual Reviews Consensus Review	
JEFF KERN	Uncertified
Conflict Declarations Instructions Certify to continue	Certify Conflict Declarations
> sem26B-001 GBT confirmation of Interstellar CH2D+	Available 🔻
sem26B-002 Radiative and mechanical feedback in regions of massive star formation REASON -REQUIRED	Conflicted 🗸
sem26B-003 Mapping the Milky Way: A Outreach Project for Highschool Students	Unknown 🔻
Expand to On GBT: Thermal Conditions for Star Formation in the Central Molecular Zone dropdown menu	Available
view proposal tic Fields in Heavenly Bridges.	Conflicted
sem26B-006 A New H2CO Flare in IRAS 18566+0408 System identified conflicts	AutomaticallyConflicted

Figure 3.3: SRP Members must declare any and all conflicts they may have before proceeding with the science review. They are required to select either Available or Conflicted for each proposal, and if the latter, they must provide a reason. If the SRP Member is an author of a proposal, it is marked as Automatically Conflicted and cannot be modified. Once all conflicts have been declared, the SRP Member can certify the conflicts to continue with the review.

Note.

SRP Members should declare and certify their conflicts promptly. The SRP Chair cannot assign REVIEW TYPEs to a reviewer until their conflicts have been certified.

Important!

Once conflicts are certified, a SRP Member cannot further modify their conflicts.

3.4 Accessing Independent Science Reviews

GWT Sem_26B	N SCIENCE CATEGORIES Gravitational waves and energetic transients		15 to Barcos I	Muñoz
Individual Reviews	Consensus Review			
JEFF KERN	Filtering and Sorting Download and Upload tools		🔒 Ce	rtified
Science Reviews	Download Reviews) 🗈 U	pload Rev	iews
Review Type Any -	eview State Any Conflicted All Sort Proposal ID			5 flicted
> sem26B-001	GBT confirmation of Interstellar CH2D+	Blank	None	
> sem26B-002	Radiative and mechanical feedback in regions of massive star formation Review States and		C infli	cted
> sem26B-003	Mapping the Milky Way: A Outreach Project for Highschool Students	Blank N	None	CORE 0
sem26B-004	GCMS on GBT: Thermal Conditions for Star Formation in the Central Molecular Zone	Blank N	None	CORE 0
Expand to enter review		Blank	None	ORE 0
	A New H2CO Flare in IRAS 18566+0408		Confli	cted
> sem26B-007	Multifrequency Monitoring of Radio-Loud Narrow-line Seyfert 1 Galaxies		Confli	cted

Figure 3.4: In the list of proposals, each row displays the Proposal ID, Proposal Title, the REVIEW STATE (initially Blank), the REVIEW TYPE (initially None), and the INDEPENDENT SCORE (displayed as Score and initially 0). If the SRP Member is conflicted on a proposal, it is marked as conflicted. Clicking the blue chevron will expand the row to display the proposal and reveal the review editor. Reviews can be entered manually per proposal, and the download and upload tools offer options for bulk editing. Refer to Section A.2 for detailed explanations of these features.

Note

SRP Chairs will assign REVIEW TYPES to reviewers. SRP Members are responsible for reviewing the proposals that they have been assigned a REVIEW TYPE of Primary, Secondary, or Tertiary.

It is not required to enter reviews with a REVIEW TYPE of None. SRP Members are welcome to read any non-conflicted proposal and may provide comments/scores. For proposals with a REVIEW TYPE of None, the comments and scores are for note-taking purposes only and will **not** be included in the Consensus Review.

Important!

If a proposal is specified in the uploaded file, the Comments and Scores will be overwritten even if the reviews were previously saved or completed.

3.5 Entering Independent Science Reviews

GWT Sem_268 SCIENCE CATEGORIES Gravitational waves and energetic to	ansients	😩 6 📲 15 क़ Loreto Barcos Muñoz
Individual Reviews Consensus Review		
JEFF KERN		🚔 Certified
Science Reviews	Sem_268 Consensus Review Consensus Review Consensus Review rtype Arry Conflicted Sort Proposal ID Consensus Review rtype Arry Conflicted Sort Consensus Review Updated Review State, Review State, Review State, Review Type, and Individual Score Download Reviews Upload Reviews sem268-001 GBT confirmation of Interstellar CH2D+ Consensus Review Consensus Review Consensus Review sem268-002 Radiative and mechanical feedback in regions of massive star formation Consensus Consensus Review Consensus Review sem268-003 Mapping the Milky Way: A Outreach Project for View of Proposal Sour Consensus Consensus Review review to the conditions for Star For action in the Central Molecular Zone Consensus Consensus	
Review Type Any - Review State Any - Conflicted All - So		Reviews Blank Conflicted Saved/Completed
> sem26B-001 GBT confirmation of Interstellar CH2D+		Completed Tertiary 2.3
> sem26B-002 Radiative and mechanical feedback in reg	ions of massive star formation	Conflicted
> sem26B-003 Mapping the Milky Way: A Outreach Project	tt for View of Proposal	Saved Secondary 2.4
 sem26B-004 GCMS on GBT: Thermal Conditions for State 	r For pation in the Central Molecular Zone	Blank Primary 0
REVIEW	PROPOSAL Open Pr	oposal in new tab
	sem26B-004 GCMS on GBT: Thermal Conditions for Star	Formation in the Central Molecular Zone
This request is justified		
		Unspecified Unspecified (FPO)
Save Wark Completed		
> sem26B-005 Magnetic Fields in Heavenly Bridges.		Blank None SCORE

Figure 3.5: The expanded view displays the proposal along with two text fields: one for the COM-MENTS TO SRP (displayed as Comments) and another for the INDEPENDENT SCORE (displayed as Score). A valid comment consists of at least one character and a valid score ranges between 0.1 and 9.9, with a lower number indicating a better-ranked proposal. Both are required to Save or Complete a review. The Complete button saves changes and serves as a bookkeeping tool for the reviewer; it is not necessary to save a review before completing it.

Important!

Only a limited view of the proposal is implemented in this version. Future versions will offer an expanded view of the proposal, encompassing the *Allocation Request*(s), *Feasibility Justification*(s), and *Science Justification*. The capability to download the proposals as PDFs will also be available.

3.6 Finalizing Independent Science Reviews

GWT Solicitation science categories Sem_26B Gravitational waves and energetic transients	😩 6 15 🛱 Loreto Barcos Muñoz
Individual Reviews Consensus Review	
JEFF KERN	🔒 Certified
Science Reviews Download Reviews	Reviews
Your top ranked proposal is:	
sem26B-013 TITLE VLA survey of low-z H-ATLAS/GAMA galaxies	SCORE 0.2
Your bottom ranked proposal is:	
sem26B-004 TITLE GCMS on GBT: Thermal Conditions for Star Formation in the Central Molecular Zone	SCORE 7.9
If you are finished with the Individual Science Reviews and the top and bottom ranked proposals displayed here are correct, select Accept to finalize y able to modify your reviews after they are finalized. Accept Confirm to Finalize reviews	our reviews. You will not be
Review lype Any * Review State Any * Conflicted All * Sort Proposal D *	15 5 10 views Conflicted Saved/Completed
> sem26B-001 GBT confirmation of Interstellar CH2D+	Saved Tertiary SCORE 4.3
> sem26B-002 Radiative and mechanical feedback in regions of massive star formation	Conflicted
> sem26B-003 Mapping the Milky Way: A Outreach Project for Highschool Students	Saved Secondary SCORE 5

Figure 3.6: For reviews associated with a REVIEW TYPE of Primary, Secondary, or Tertiary have a REVIEW STATE of either Saved or Completed, the *Individual Science Reviews* can be finalized. A prompt will request confirmation of the top (i.e., the one with the lowest score) and bottom (i.e., the one with the highest score) ranked proposals in the set. If confirmed, any further modifications to comments and scores related to these finalized proposals will not be possible.

Note

SRP Members must finalize their reviews before the Consensus Review can begin.

End of Individual Science Review phase

- Upon finalization, the set of SRP Member's INDIVIDUAL SCORES is normalized with an average value of 5 and a standard deviation of 2. These normalized scores will be available to other panelist in the *Consensus Review* and are formally referred to as the FINALIZED NORMALIZED INDIVIDUAL SCORES or FNISs.
- Once all the SRP Members on a panel have finalized their *Individual Science Reviews*, the TTA Group member can initiate the *Consensus Review* phase for the panel. At that time, the Consensus Review tab will become available.

4 | Consensus Reviews

4.1 Accessing Consensus Reviews

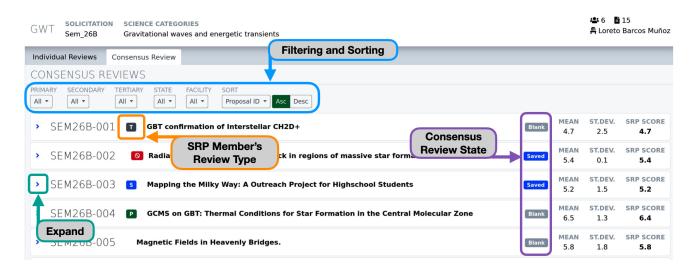


Figure 4.1: The Consensus Review tab presents the list of proposals within the panel. Each row displays the Proposal ID, the Proposal Title, the REVIEW STATE (initially blank), the mean of the FNISs (displayed as Mean), the standard deviation of the FNISs (displayed as ST.DEV.), and the SRP Score. Refer to Section B for definitions of these quantities.

The SRP Member's REVIEW TYPE is denoted by a green, blue, or gray square icon, marked with either a 'P', 'S', or 'T'. Note, there is not an icon for a REVIEW TYPE of None, and a red square icon with a white slashed circle denotes a conflict. For further examples, see Section C.

Note

The filtering options for Primary, Secondary, and Tertiary are restricted to only show an SRP Member's role. SRP Chairs have an expanded set of filters for organizing the Consensus discussion.

4.2 Inspecting and Entering the Consensus Reviews

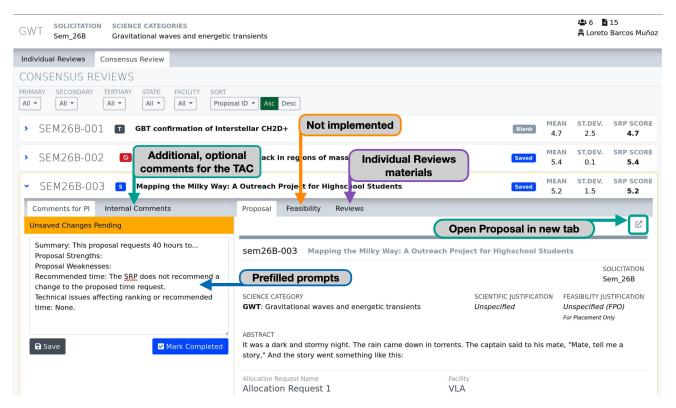


Figure 4.2: Expanding a row provides further navigational sub-tabs and the Consensus Review editor, which contains two text fields: the Comments for PI and the Internal Comments. The Comments for PI has pre-fill prompts to guide the content of the review.

Note.

Only a Primary or Secondary reviewer can enter or modify the comment fields and Save or Complete the review. A review must be saved before being completed.

Important!

Completing a *Consensus Review* will prevent further modification of the comments by other SRP Members. This functionality is different than the completing an *Individual Science Review*.

4.3 Viewing Co-panelists' Individual Reviews

SWT Sem_26B Gravitational waves and energetic transients			15 9 Barcos Muñ
Individual Reviews Consensus Review		SRP S	core
Mean of the AII • AII • AII • AII • AII • AII • AII • AII • Mean of the	FNISs		
 SEM26B-001 Finalized Normalized Individual Scores (FNISs) 	lank 4.7	ST.DEV. 2.5	SRP SCORI 4.7
	aved 5.4	ST.DEV. 0.1	SRP SCORE
 SEM26B-003 S Mapping the Milky Way: A Dutreach Project for Highschool Students Statements 	MEAN 5.2	ST.DEV.	SRP SCORE 5.2
Comments for PI Internal Comments Proposal Feasibility Reviews		1	
	ard Deviat		ng elit. Cras
Summary: Inis proposal requests 40 hours to Proposal Strengths: Proposal Weaknesses: Recommended time: The SRP does not recommended change to the proposed time request. Technical issues affecting ranking or recommended time: None. Comments from Individual Reviews time: None. bibendum, dui eget sodales scelerisque, vitae ipsum. Nullam justo urna, dapibus sed ante n varius natoque penatibus et magnis dis parturient Duis iaculis pellentesque lectus, a pulvinar elit mol faucibus enim. Sed elementum eu nun ut vulputat Nullam consequat sem libero, at hendrerit quam po sodales sit amet interdum eu, mattis at elit. Aliquai ex eros, elementum eget ligula eu, pellentesque m leo, quis commodo nulla laoreet vel. Nam sed alique	montes, nasce estie quis. Pell te. Sed venena osuere nec. Ae m maximus eu olestie lectus.	arius ncidunt sap etur ridiculu lentesque c atis aliquan enean diam u arcu ut co . Etiam sagi	elit arcu iien. Orci us mus. commodo n tincidunt. ipsum, ongue. Sed ittis nulla
6 Comments for the SRP: Lorem ipsum dolor sit ar bibendum, dui eget sodales scelerisque, arcu nulla vitae ipsum. Nullam justo urna, dapibus sed ante n varius natoque penatibus et magnis dis parturient Duis iaculis pellentesque lectus, a pulvinar elit mol	cursus purus, ec, pretium tir montes, nasce	, nec varius ncidunt sap etur ridiculu	elit arcu ien. Orci is mus.

Figure 4.3: The Proposal sub-tab shows the same view of the proposal as that available in the Individual Reviews tab. The Feasibility sub-tab is not yet implemented but would show Technical and Data Management Reviews if available. The Reviews sub-tab shows the Scores (FNISs) and Comments associated with the proposal from the applicable *Individual Science Reviews*.

Important!

The TTA tools offer a 're-vote' feature, allowing an SRP Member to adjust their score during the Consensus meeting. The SRP Chair or TTA Group Member is able to modify the FNIS, which will update the mean, ST.DEV., and SRP Score.

4.4 After the Consensus Meeting

- By the end of the Consensus meeting, the panel should reach agreement on the order of the proposals. The ranking is determined by the SRP Score, where a low number indicates a better ranked proposal. The position of a proposal on the list dictates the calculation of the Normalized Linear Rank (NRL) (see Section B).
- The Primary and Secondary reviewers are responsible for composing the Comments for PI and Internal Comments, the latter of which allows the SRP to make confidential comments about the proposal to Observatory Staff and the TAC. SRP Members should communicate via external methods (e.g., e-mail) to refine the comments. Once finished, the review should be marked as completed.
- After all reviews have been completed, the *Consensus Review* phase is concluded for SRP Members.

5 | SRP Chair

A SRP Chair has all of the responsibilities and capabilities as a SRP Member plus additional ones, which are detailed here. As such, it is assumed that the SRP Chair is familiar with the functionality of the SRP Member role.

5.1 Assigning Review Types to SRP Members

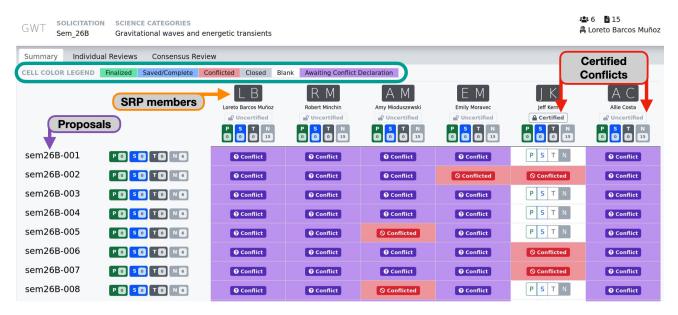


Figure 5.1: The Summary tab displays a grid of the SRP Members and proposals. The color of the cell indicates the conflict state (Unknown, Available, Conflicted) or the REVIEW STATE, which reflects the reviewer's progress. A legend is available at the top of the page. As SRP Members certify conflicts, complete, and finalize their *Individual Science Reviews*, the cell color will update to reflect their progress.

Important!

A SRP Chair cannot assign a REVIEW TYPE to a SRP Member until they have declared and certified their conflicts. It is not required to wait for all SRP Members to certify. The REVIEW TYPE may be modified until the start of Consensus, as long as the REVIEW STATE is not Finalized or Closed.

GWT SOLICITATIO Sem_26B		nd energetic transients					🔹 6 📲 15 🛱 Loreto Barcos Muñoz
Summary Individu	al Reviews Consensus	Review					
CELL COLOR LEGEND	Finalized Saved/Complete	Conflicted Closed Blank	Awaiting Conflict Dec	laration			
		LB	RM	AM	EM	JK	AC
Review	Type Summaries	Loreto Barcos Muñoz	Robert Minchin	Amy Mioduszewski	Emily Moravec	Jeff Kern	Allie Costa
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		PSTN 1856	PSTN 267	P S T N 2 2 7 4	P S T N B 2 4 6	
sem26B-001			Review Typ	S T N	PSTN	PSTN	@ Conflict
sem26B-002	P 🖸 S 🖸 T 🖸 N G	PSTN	selector	STN	⊘ Conflicted	○ Conflicted	2 Conflict
sem26B-003	P 3 5 3 T 2 N 2	PSTN	Tertiary	PSTN	PSTN	PSTN	O Conflict
sem26B-004	P 3 5 3 T 2 N 2	PSTN	Secondary	PSTN	PSTN	PSTN	O Conflict
sem26B-005	P 3 5 3 T 3 N 3	P S T N	Secondary		dify Review	P S T N	O Conflict
sem26B-006	P 3 5 3 T 2 N 2	PSTN	Primary		n Finalized, or Conflicted	O Conflicted	Q Conflict
sem26B-007	P 🖸 S 1 T 8 N 2	PSTN	Tertiary	POIN	PSIN	⊘ Conflicted	O Conflict
sem26B-008	P 1 5 0 T 8 N 2	PSTN	Tertiary		P S T N	P S T N	@ Conflict
sem26B-009	P 0 5 1 T 0 N 5	PSTN	P S T N	P S T N	P S T N	P S T N	@ Conflict
sem26B-010		PSTN	P S T N	P S T N	P S T N	⊘ Conflicted	Q Conflict

Figure 5.2: A REVIEW TYPE cannot be assigned to an SRP Member until they have certified their conflicts. Once a reviewer has been certified, a set of buttons appears for each cell, facilitating the assignment of a REVIEW TYPE for each proposal. These buttons are labeled as 'P', 'S', 'T', and 'N', representing Primary, Secondary, Tertiary, and None respectively. The system prevents the assignment of more than one Primary or one Secondary reviewer to a single proposal. However, any number of Tertiary or None assignments is permissible.

5.2 Organizing the Consensus Meeting

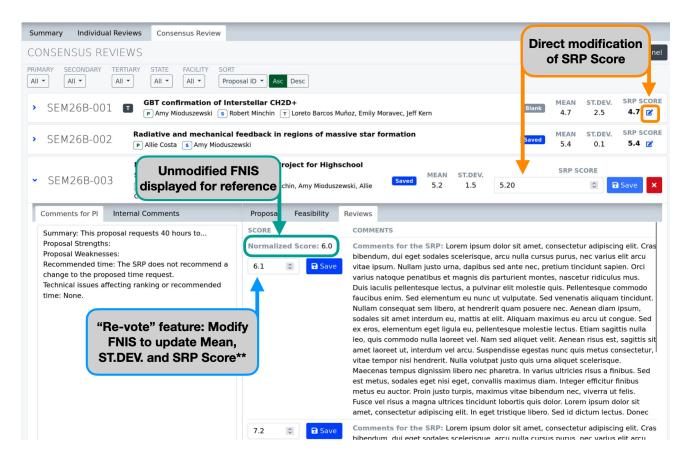


Figure 5.3: In the Consensus Reviews tab, the filtering options for Primary, Secondary, and Tertiary now include all SRP Members. In the list of proposals, the names of the Primary, Secondary, and all Tertiary reviewers are displayed for the SRP Chair.

5.3 Updating Scores in the Consensus Meeting

GV		SCIENCE CATEGORIES Gravitational waves and ener	getic transients	Expanded Filterin	g and				15 Barcos Muñoz
Sur	nmary Individual Re	consensus Review		Sorting option	ns				
СС	NSENSUS REVI	EWS							Back to Panel
			ORT Proposal ID 👻 Asc D	Desc					
>	SEM26B-001	GBT confirmation of P Amy Mioduszewski		+ .oreto Barcos Muñoz, Emily Mora	vec, Jeff Kern	Blank	MEAN 4.7	ST.DEV. 2.5	SRP SCORE 4.7
>	SEM26B-002	Radiative and mechani P Allie Costa S Amy Mioc	-	gions of massive star forn	nation	Saved	MEAN 5.4	ST.DEV. 0.1	SRP SCORE 5.4
>	SEM26B-003			ect for Highschool Studen , Amy Mioduszewski, Allie Costa	ts	Saved	MEAN 5.2	ST.DEV. 1.5	SRP SCORE 5.2
>	SEM26B-004	GCMS on GBT: Thermal		ar Formation in the Centr. wski, Emily Moravec	-Molecular Zone	Blank	MEAN 6.5	ST.DEV. 1.3	SRP SCORE 6.4
\$	SEM26B-005	Magnetic Fields in H P Loreto Barcos Muñoz		Emily Moravec, Allie Costa	All Reviewers (Chair only view)	Blank	MEAN 5.8	ST.DEV. 1.8	SRP SCORE 5.8
>	SEM26B-006		eview Type	reto Barcos Muñoz, Emily Mora	vec	Blank	MEAN 4.3	ST.DEV. 2.0	SRP SCORE 4.3

Figure 5.4: The 're-vote' feature allows a SRP Chair to adjust the ranking of a proposal within the list, should the panel choose to reorder the proposals. A SRP Chair can do so via two methods. The first is to modify one or more FNIS, which will trigger a recalculation of the Mean of the FNISs, ST.DEV., and SRP Score for the associated proposal. The second method is to directly modify the SRP Score. If the latter, further changes to the FNIS associated with that proposal will not affect the SRP Score.

Important!

Once an SRP Score is directly modified, it can only be changed through a direct edit from that point on.

5.4 Finalizing Consensus Reviews

GWT SOLICITATION Sem_26A	SCIENCE CATEGORIES Gravitational waves and energetic transients				10 b Barcos Munc
	VIEWS Consensus	Finalize Conser	hsus Revi	iews	Back to Panel
 SEM26A-001 	All * All * Proposal ID * Asc Desc Magnetic Fields in Heavenly Bridges. P Jeff Kern § Robert Minchin T Emily Moravec	Completed	MEAN 4.8	ST.DEV. 0.9	SRP SCORE 4.8
> SEM26A-002	Morphology of Star Formation in Luminous, z ~ 2 - 4 Strongly Lensed Galaxies P Robert Minchin S Emily Moravec T Amy Mioduszewski	Completed	MEAN 6.1	ST.DEV. 1.2	SRP SCORE 6.1
> SEM26A-003	Radiative and mechanical feedback in regions of massive star formation P Robert Minchin S Jeff Kern T Loreto Barcos Munoz, Emily Moravec	Completed	MEAN 5.1	ST.DEV. 1.9	SRP SCORE 5.0 🗭
> SEM26A-004	Probing the Detailed Magnetic Fields in SNRs With Zeeman Splitting P Emily Moravec S Amy Mioduszewski T Loreto Barcos Munoz, Robert Minchin, Jeff Kern	Completed	MEAN 3.6	ST.DEV. 1.7	SRP SCORE 3.6 📝

Figure 5.5: SRP Chairs can edit, save, and complete any *Consensus Review* unless they are conflicted on the proposal in question. When the panel's *Consensus Reviews* are complete, the SRP Chair can proceed to finalize the *Consensus Reviews*. This will lock the comment fields, preventing any further modification. With this final step, the *Consensus Review* phase concludes for the SRP Chair.

Important!

Completing a review will prevent further modification by SRP Members.

A | Auxiliary Features

A.1 System Messages

There are different feedback mechanisms available to inform the user about the actions the application is taking.

- If an action (e.g., save) is unsuccessful, a system message is displayed with a red banner temporarily at the top of the screen with the error message. The history of the System Messages is maintained in an expandable list available on the bottom right of an editor; see Figure 3.2 for a reference.
- When a text field (e.g., Comments, Internal Comments) is modified, a yellow banner with the words "Unsaved Changes Pending" and a blue Save button will appear. The banner will persist until either a save is successful via the Save button or the form is returned to the last saved state (e.g., the modifications are undone by the user).
- In-line error messages may be displayed in red to help guide the user.
- Interactive prompts may pop-up that require the user to confirm an action.

A.2 Individual Review File Download and Upload Tools

To externally edit *Individual Science Reviews* or edit in bulk, users can download a template using the Download Reviews widget, edit the reviews with an external editor, and use the Upload Reviews widget to upload the file.

A.3 Download Tool

• The Download Reviews widget will down the proposals associated with a panel. The downloaded file functions as both a template for future upload (see below) and for exporting comments and scores in bulk. The downloaded file has headers of

username, proposal_id, comments_for_the_srp, individual_score

and is a csv format.

- The Comments for SRP and Score are blank and 0, respectively, if no modification to the fields has been saved in the TTA tools. Otherwise, the last saved entry will be downloaded.
- Proposals for which a user is conflicted are not included in the downloaded file.

A.4 Upload Tool

• The uploaded file must have at least one row that contains the SRP Member's username, a Proposal ID, a valid Comment for SRP, and a valid Score in a csv format. It must also include the following line as a header.

username, proposal_id, comments_for_the_srp, individual_score

• If the Comments for SRP includes commas, the entry should be framed by a set of double quotation marks to protect the entry. A different delimiter may also be used, which may

be a semicolon (;), pipe (|), or tab. The header should also use the modified delimiter, as the upload tool will attempt to automatically detect the delimiter using the header.

- The upload tool will fail if a **Proposal ID** is not associated with the panel or if the username does not match the log-in name.
- The uploaded file should not contain Proposal IDs that correspond to proposals for which the user is conflicted or that have REVIEW STATES of Finalized or Closed. If a proposal is included, an error message will displayed and the file will not be uploaded.
- The upload tool will overwrite the existing Comments for SRP and Score on upload and automatically update the REVIEW STATE to Saved.

B | Definitions

- An Allocation Request contains the details of the requested observatory resources.
- A Feasibility Justification includes a Technical Justification and/or a Data Management Plan.
- A REVIEW TYPE is assigned by the SRP Chair per reviewer per proposal. The REVIEW TYPE are Primary, Secondary, Tertiary, or None. REVIEW TYPES can affect the information displayed in the UI and the level of access a reviewer may have to a proposal.
- A REVIEW STATE describes an *Individual Science Review* or a *Consensus Review* and is either Blank, Saved, Completed, Finalized, or Closed. The general behavior is described in Sections 3 and 4. Note, if a REVIEW STATE is Closed or Finalized, no further modifications can be made by SRP Chairs or SRP Members.
- A Science Review Panel (SRP) member can only belong to one SRP panel, though there may be multiple panels. They are expected to author an *Individual Science Review* for each proposal they are assigned a REVIEW TYPE. They participate in the Consensus meeting with other SRP members on their panel, which reviews all of the ISRs per proposal to form a consensus opinion.
- A SRP Chair has all the responsibilities and abilities of a SRP member and additional ones. They manage the panel reviews during the Review Process phase and are a member of the Telescope Time Allocation Committee.
- A Solicitation is an announcement from the observatory to the community to submit a request to use observatory resources (e.g., a Call for Proposals).
- The Telescope Time Allocation (TTA) Group Member is an authorized observatory staff who is responsible for administering the TTA process.
- Types of scores
 - INDIVIDUAL SCORE a user input value per proposal per reviewer during the Individual Science Review phase.
 - NORMALIZED INDIVIDUAL SCORE a calculated value per proposal per reviewer; it is the normalization of the INDIVIDUAL SCORE for all proposals per reviewer. The normalized distribution has a mean of 5 and a standard deviation of 2.
 - FINALIZED NORMALIZED INDIVIDUAL SCORE (FNIS) initially a copy of the NORMAL-IZED INDIVIDUAL SCORE but can be modified during the Consensus meeting by the SRP Chair or TTA member (see Section 5.3).

- MEAN NORMALIZED SCORE average of the reviewers' FINALIZED NORMALIZED INDI-VIDUAL SCORES per proposal.
- STANDARD DEVIATION OF THE MEAN NORMALIZED SCORE the standard deviation of the reviewers' FNISs per proposal.
- SRP SCORE a copy of the MEAN NORMALIZED SCORE but can be modified by the SRP Chair or TTA Group Member or via an update to the MEAN NORMALIZED SCORE. If it is modified by the SRP Chair or TTA Group Member, it can only be modified directly from that point on.
- NORMALIZED LINEAR RANK (NLR) calculated for proposals per panel once all Consensus Reviews have a REVIEW STATE of Finalized. The proposals are assembled into an ordered list by their SRP SCORE from 0.1 to 9.99. The index in the ordered list is denoted as R and the NRL for each proposal in the panel is then

$$NLR = \frac{R*10}{N},$$
(1)

where N is the number of proposals in the panel.

C Common Icons in the UI

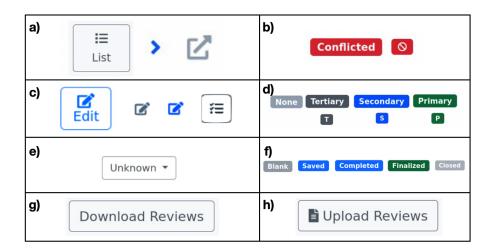


Figure C.1: Common buttons in the UI. See text for the descriptions.

Figure C.1 shows common buttons in the UI, which are described below.

- a) Expand UI element (e.g., Figures 3.4, 3.5).
- b) Conflicted badge: Reviewer is conflicted on a proposal (e.g., Figure 3.3).
- c) Edit an element e.g. SRP Score editor (e.g., Figure 5.4).
- d) Badges representing REVIEW TYPE (e.g., Figures 3.4, 4.1).
- e) Option selector (e.g., Figure 3.3).
- f) Badges representing REVIEW STATE (e.g., Figures 3.4, 4.1)
- g) Download Independent Science Reviews template for upload (Figure 3.4).
- h) Upload a file with comments and scores for *Independent Science Reviews* (Figure 3.4).

$\mathbf{D} \mid \mathbf{Help}$

- I don't see a Certify Conflicts button.
 - Check that each Proposal is either marked as Available or Conflicted. If Conflicted, a reason must be provided.
- Why can't I save an Individual Science Review comment?
 - To save Comments in an Individual Review, you must also provide a valid score.
- The file upload does not work.
 - Check that the username supplied in the uploaded file matches the user account identically.
 - Check that all rows in the file have a valid comment and score.
 - Check that the proposals in the file are not listed as Conflicted, Finalized, or Closed.

I don't see a Finalize button for my Individual Reviews.

- You may not have been assigned a role yet by the SRP Chair. You may enter comments and scores but will have to wait until the Chair has assigned Primary, Secondary, or Tertiary.
- If you have been assigned roles, the Finalize button only appears when all of the proposals for which you have been assigned the role of Primary, Secondary, or Tertiary have REVIEW STATES of Saved or Completed.
- Why can't I enter or edit a Consensus Review comment?
 - You may only enter or edit Consensus Comments for the PI or Internal Comments for proposals that you are the Primary or Secondary reviewer.
- I seem to have a lot more "power" than the guide describes.
 - Check that you are logged in as a regular user and not a TTA user.
- As a SRP Chair, my changes to the FNISs do not update the SRP Score.
 - If the SRP Score was previously modified by a direct edit, then updating the FNISs will not affect the SRP Score. See Section 5.3 for details.

Can I poke around at the other parts of the application?

• If you must.

I made a mistake and can't undo it/ I broke something/ I'm stuck.

- Try refreshing the page.
- Note the behavior in your feedback and contact Allie Costa (acosta@nrao.edu or Slack) for assistance.