APPENDIX B - Requirements

The requirements listed below cover both functional and non-functional requirements for the initial build of the Revisor's MARSS system. Further refinement, elaboration and validation of these requirements will be done at the beginning of and during the system build.

Definitions of users:

Admin User - a user that has access to all aspects of the system and is responsible for creating and managing all user accounts, domain lists and other technical aspects of the system.

Authorized User - a user of the system who has been given log-in credentials by the admin user. The permissions assigned to the authorized user will determine which features and data the user is allowed to access and modify.

Agency User - An authenticated user who is allowed to input data into the system and is responsible for the contents in the rulemaking records.

Legislative User - legislators and legislative staff interested in rulemaking. In the initial build of they system these users will recieve notifications from the system.

Public User - A general user of the system who will have access to query and view all public data stored in the system. All users have the access levels of the public.

	Functional Requirements			
Use Case	Req	Name	Use Case or Requirement Description	
U000		Cross-Cutting Features	A number of desired features apply generally to many or all use cases, as identified below.	
U000	R003		The system will provide validation where appropriate, such as for spell checking, valid dates, and valid Statute citations.	
U000	R005		The system will provide a timeline representation of the rulemaking process with which all users, including the public and legislative staff, can see	
			the current status and progress of a rulemaking.	
U000	R006		The system will support viewing of all screens via a mobil device, with all displays optimized for mobile viewing. This includes being able to use a	
			mobile device to view reports.	
U000	R007		A agency user will be able to flag rulemaking events, rulemaking record items and documents as not ready for public viewing. These flagged events,	
			items and documents will NEVER display to a public user. However, all data in MARSS will be treated as public data and will therefore be accessible	
			via a data request.	
U000			The system will provide a personal dashboard with information relevant to the authenticated agency user. Dashboards for public and legislative	
			users are a future consideration.	
U000	R010		An admin user will be able to leverage, programmatically, real-time events sent to the Xtend system from the MARSS system.	
U000	R011		An agency user will be able to delete events, items and documents which the agency user or someone within the agency user's group has entered	
0000	11011		prior to the formal adoption of a rule revision. After formal adoption of a rule revision, records will be locked for the rule proceeding for any agency	
			user, but an admin user would have the rights to delete records.	
U001		Create Rulemaking	The agency user will be able to create a rulemaking proceeding - provided they have the permissions to do so.	
0001		Proceeding	The agency user will be able to create a fulcinaking proceeding - provided they have the permissions to do so.	
U001	R001	Proceeding	A revisor ID will be assigned to a rulemaking proceeding in any status provided that it is the initial entry. The Revisor ID will be produced sequentially	
0001	KUUI			
U001	R002		in the format of R-#####.	
0001	RUUZ		The system will enforce that all data required for a rule proceeding has been provided and validated before allowing creation of the proceeding	
	2000		record.	
U001	R003		The agency user will be able to select the applicable rulemaking proceeding type {General with Hearing, General without Hearing, Expedited,	
			Exempt} for a rulemaking proceeding.	
U001	R004		The agency user will enter a rulemaking revision description, the statutory authority and effective dates of this authority (no end date for	
			permanent).	
U001	R005		The agency user will be able to supply as much of the meta data about a rulemaking proceeding as they choose at creation time. The same features	
			for updating a rulemaking proceeding apply.	
U001	R006		More than one user from different agencies might need permissions for the same rulemaking proceeding for instances where the ownership is	
			shared across agencies.	
U001	R007		An agency user will be able to get a user-friendly/clean URL permalink from the system's webpage that is specific to the rulemaking proceeding to	
			add to an agency website.	
U001	R008		Agency user entered citations to Revisor documents (Statutes, Laws, Rules) should link to the cited documents located on the Revisor of Statutes	
			website (citation algorithm available from Revisor's Office).	
U002		Update Rulemaking	The agency user will be able to update a rulemaking proceeding extending from the creation of a rulemaking proceeding or from a view whereby	
		Proceeding Record	the specific rulemaking proceeding can be selected for edit.	
U002	R001		The agency user will be able to update all data associated with a rulemaking proceeding that is not limited by permissions.	
U002	R002		The agency user will be able to cancel a hearing date and enter a cancellation date.	
U002	R003		The agency user will be able to update keywords or topics associated with a particular rulemaking proceeding that may later be used as search	
			criteria. Keywords may be selected or entered. Topics may only be selected.	
U002	R004		The data entered for rulemaking record items may aggregate up to the rulemaking proceeding, such as an aggregate number of requests for hearing	
			uploaded on different dates. Derived data will be displayed with a rulemaking proceeding.	
U002	R005		The agency user will be able to select the committee(s) with jurisdiction for a particular rulemaking proceeding.	
U002	R006		The agency user will be able to select the corresponding contacts for a committee and their emails for the purpose of notifications.	
U002	R009		The agency user will be able to add rulemaking events to a rulemaking proceeding.	
U002	R012		The agency user will be able to add rule provisions to the rulemaking proceeding, subject to validation of a valid citation, in addition to the list	
			automatically received from the Revisor Xtend System.	
U002	R013		The agency user will be able to assign detail on a rulemaking provision event as: new, amended or repealed by adding it if it does not already exist or	
- 552			by editing the existing value.	
U002	R014		The agency user will be able to remove any rule provisions listed as affected by the rule making proceeding. This includes rule provisions that were	
		1	5. 5. 7. The state of the provided that were	

U002	R015		The agency user will be able to enter the OAH Docket number.
U002	R016		
			The agency user will be able to enter an agency contact for a rulemaking proceeding, with first name, last name, title, phone and email.
U002	R017		If the rulemaking provision effective dates are permanent, the agency user will be able to enter an effective date for the rulemaking provision as
			well as a compliance date if the compliance date is different than the effective date.
U002	R018		If the rulemaking provision effective dates are temporary, The agency user will be able to enter both an expiration date and an effective date for the
			rulemaking provision as well as a compliance date if the compliance date is different than the effective date.
U002	R019		The agency user will be able to to apply default values that are then editable for the entry of effective date, expiration date and a compliance date at
			the rulemaking proceeding level that then populate all associated dates of the same type at the rulemaking provision level. The agency user can
			then update the dates of any rulemaking provision selectively.
U002	R020		The agency user will be able to change a rulemaking proceeding to a different status, and if changed, the user will be alerted to any impacts such as
			associated rule events.
U002	R023	v., o. 1 15 1 1:	Support for notifications sent to legislative staff and other required agencies and committees will be provided.
U003		_	The agency user will be presented with a list of standard rulemaking events associated with the rulemaking proceeding type selected.
11003	R001	Events	
U003	KUUI		Based on the agency user's selection of a rulemaking proceeding type, the agency user will be presented with a list of standard rulemaking events
U004		Undata Bulamaking Events	with associated rulemaking record items. The agency user will be able to update the list of rulemaking events planned for a specific rulemaking proceeding.
0004		Opuate Kulemaking Events	The agency user will be able to update the list of rulemaking events planned for a specific rulemaking proceeding.
U004	R001		The agency user will be able to update the list of rulemaking events and associated rulemaking record items for a specific rulemaking proceeding
0004	INOUI		without affecting the standard list displayed for other users creating a rulemaking proceeding.
U004	R006		The agency user will be able to select, for a publicly viewable schedule, the planned rulemaking events with associated data for the specific
0004	11000		rulemaking proceeding. Items not selected will be viewable by users with permissions to view.
U005		Update My Rulemaking	The agency user will be able to update planned or actual events associated with a rulemaking proceeding.
0000		Events	The spanish was a size to apartic planned to contain the size and the
U005	R001	Events	The agency user will be able to create actual standard or non-standard rulemaking events with associated respective standard or non-standard
0000	1.001		rulemaking record items even when the event was not previously identified as a planned event.
U005	R002		The agency user will be able to update a planned rulemaking event as an actual event with actual dates, other data, and associated events and
			document uploads.
U007		Create Rulemaking Record	The agency user will be able to create a rulemaking record item for a rulemaking event
		Item	
U007	R001		The agency user will be able to create a rulemaking record item for a rulemaking event. More than one rulemaking record item might apply to a
			rulemaking event and more than one rulemaking event might relate to the same rulemaking record item.
U007	R002		The agency user will be able to enter specific data corresponding to a particular rulemaking record item, for example, an upload of a set of requests
			for a hearing will have a corresponding data input for the valid number of requests for a hearing.
U008		Update Rulemaking	The agency user will be able to update a rulemaking record item.
		Record Item	
U008	R001		The agency user will be able to update all rulemaking record item data within permissions.
U009		Upload Rulemaking	The agency user will be able to upload rulemaking record item "documents." (Documents is generally used for documents, audio files or any other
		Record Item Document	formats.)
		Version	
U009	R001		The control will be able to relate a control of control
			The agency user will be able to upload a version of a rulemaking record document such as an updated version, alternative ADA version, or a State
11000			
U009	D002		Register version, and associate the document with one or more rulemaking record items (the logical description of the document(s)).
	R002		Register version, and associate the document with one or more rulemaking record items (the logical description of the document(s)).
	R002		Register version, and associate the document with one or more rulemaking record items (the logical description of the document(s)). Upon uploading a replacement version for any rulemaking record item, the agency user will be prompted to select whether the replacement is to
11010	R002	Assign Topics	Register version, and associate the document with one or more rulemaking record items (the logical description of the document(s)). Upon uploading a replacement version for any rulemaking record item, the agency user will be prompted to select whether the replacement is to trigger a permanent delete of the replaced item, or a replacement which leaves the last version as an accessible historical record.
U010	R002	Assign Topics	Register version, and associate the document with one or more rulemaking record items (the logical description of the document(s)). Upon uploading a replacement version for any rulemaking record item, the agency user will be prompted to select whether the replacement is to trigger a permanent delete of the replaced item, or a replacement which leaves the last version as an accessible historical record. The agency user will be able to select topics for a particular rulemaking proceeding or rulemaking event or rulemaking record item.
U011	R002	Assign Keywords / Tags	Register version, and associate the document with one or more rulemaking record items (the logical description of the document(s)). Upon uploading a replacement version for any rulemaking record item, the agency user will be prompted to select whether the replacement is to trigger a permanent delete of the replaced item, or a replacement which leaves the last version as an accessible historical record. The agency user will be able to select topics for a particular rulemaking proceeding or rulemaking event or rulemaking record item. The agency user will be able to select or enter keywords/tags for a particular rulemaking proceeding or rulemaking record item.
	R002	Assign Keywords / Tags View Rulemaking	Register version, and associate the document with one or more rulemaking record items (the logical description of the document(s)). Upon uploading a replacement version for any rulemaking record item, the agency user will be prompted to select whether the replacement is to trigger a permanent delete of the replaced item, or a replacement which leaves the last version as an accessible historical record. The agency user will be able to select topics for a particular rulemaking proceeding or rulemaking event or rulemaking record item.
U011 U013		Assign Keywords / Tags	Register version, and associate the document with one or more rulemaking record items (the logical description of the document(s)). Upon uploading a replacement version for any rulemaking record item, the agency user will be prompted to select whether the replacement is to trigger a permanent delete of the replaced item, or a replacement which leaves the last version as an accessible historical record. The agency user will be able to select topics for a particular rulemaking proceeding or rulemaking event or rulemaking record item. The agency user will be able to select or enter keywords/tags for a particular rulemaking proceeding or rulemaking record item. All users will be able to view rulemaking proceeding information in various forms within assigned permissions.
U011	R002	Assign Keywords / Tags View Rulemaking	Register version, and associate the document with one or more rulemaking record items (the logical description of the document(s)). Upon uploading a replacement version for any rulemaking record item, the agency user will be prompted to select whether the replacement is to trigger a permanent delete of the replaced item, or a replacement which leaves the last version as an accessible historical record. The agency user will be able to select topics for a particular rulemaking proceeding or rulemaking event or rulemaking record item. The agency user will be able to select or enter keywords/tags for a particular rulemaking proceeding or rulemaking record item. All users will be able to view rulemaking proceeding information in various forms within assigned permissions. All users will be able to view rulemaking proceeding information via a number of prepared queries and canned reports as well as via the user's ability
U011 U013 U013	R001	Assign Keywords / Tags View Rulemaking	Register version, and associate the document with one or more rulemaking record items (the logical description of the document(s)). Upon uploading a replacement version for any rulemaking record item, the agency user will be prompted to select whether the replacement is to trigger a permanent delete of the replaced item, or a replacement which leaves the last version as an accessible historical record. The agency user will be able to select topics for a particular rulemaking proceeding or rulemaking event or rulemaking record item. The agency user will be able to select or enter keywords/tags for a particular rulemaking proceeding or rulemaking record item. All users will be able to view rulemaking proceeding information in various forms within assigned permissions. All users will be able to view rulemaking proceeding information via a number of prepared queries and canned reports as well as via the user's ability to customize queries and reports and to apply search criteria (see variations below).
U011 U013 U013		Assign Keywords / Tags View Rulemaking	Register version, and associate the document with one or more rulemaking record items (the logical description of the document(s)). Upon uploading a replacement version for any rulemaking record item, the agency user will be prompted to select whether the replacement is to trigger a permanent delete of the replaced item, or a replacement which leaves the last version as an accessible historical record. The agency user will be able to select topics for a particular rulemaking proceeding or rulemaking event or rulemaking record item. The agency user will be able to select or enter keywords/tags for a particular rulemaking proceeding or rulemaking record item. All users will be able to view rulemaking proceeding information in various forms within assigned permissions. All users will be able to view rulemaking proceeding information via a number of prepared queries and canned reports as well as via the user's ability
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U011 U013 U013 U013 U013 U014	R001 R002 R003	Assign Keywords / Tags View Rulemaking	Register version, and associate the document with one or more rulemaking record items (the logical description of the document(s)). Upon uploading a replacement version for any rulemaking record item, the agency user will be prompted to select whether the replacement is to trigger a permanent delete of the replaced item, or a replacement which leaves the last version as an accessible historical record. The agency user will be able to select topics for a particular rulemaking proceeding or rulemaking event or rulemaking record item. The agency user will be able to select or enter keywords/tags for a particular rulemaking proceeding or rulemaking record item. All users will be able to view rulemaking proceeding information in various forms within assigned permissions. All users will be able to view rulemaking proceeding information via a number of prepared queries and canned reports as well as via the user's ability to customize queries and reports and to apply search criteria (see variations below). All users will be able to download or export reports/queries in a variety of printer-friendly formats. (PDF, Word)
U011 U013 U013 U013 U013 U014 U014	R001	Assign Keywords / Tags View Rulemaking Information View Report	Register version, and associate the document with one or more rulemaking record items (the logical description of the document(s)). Upon uploading a replacement version for any rulemaking record item, the agency user will be prompted to select whether the replacement is to trigger a permanent delete of the replaced item, or a replacement which leaves the last version as an accessible historical record. The agency user will be able to select topics for a particular rulemaking proceeding or rulemaking event or rulemaking record item. The agency user will be able to select or enter keywords/tags for a particular rulemaking proceeding or rulemaking record item. All users will be able to view rulemaking proceeding information in various forms within assigned permissions. All users will be able to view rulemaking proceeding information via a number of prepared queries and canned reports as well as via the user's ability to customize queries and reports and to apply search criteria (see variations below). All users will be able to download or export reports/queries in a variety of printer-friendly formats. (PDF, Word) The system will support the export of information into specific formats which include Excel, PDF, Word, and CSV. All users will be able to view a variety of canned reports.
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U011 U013 U013 U013 U013 U014 U014	R001 R002 R003	Assign Keywords / Tags View Rulemaking Information View Report Search for Records or	Register version, and associate the document with one or more rulemaking record items (the logical description of the document(s)). Upon uploading a replacement version for any rulemaking record item, the agency user will be prompted to select whether the replacement is to trigger a permanent delete of the replaced item, or a replacement which leaves the last version as an accessible historical record. The agency user will be able to select topics for a particular rulemaking proceeding or rulemaking event or rulemaking record item. The agency user will be able to select or enter keywords/tags for a particular rulemaking proceeding or rulemaking record item. All users will be able to view rulemaking proceeding information in various forms within assigned permissions. All users will be able to view rulemaking proceeding information via a number of prepared queries and canned reports as well as via the user's ability to customize queries and reports and to apply search criteria (see variations below). All users will be able to download or export reports/queries in a variety of printer-friendly formats. (PDF, Word) The system will support the export of information into specific formats which include Excel, PDF, Word, and CSV. All users will be able to view a variety of canned reports. Reports will be able to view a variety of canned reports. Reports will be able to search rulemaking proceeding records by a variety of search parameters and filters, including topics and keyword/tabs and Revisor ID. More than one search parameter might be chosen at one time, further filtering the results. All users will be able to input search terms or phrases that will be combined with other search criteria that are matched to metadata for rulemaking
U011 U013 U013 U013 U013 U014 U014 U015	R001 R002 R003	Assign Keywords / Tags View Rulemaking Information View Report Search for Records or Topics or Keywords/Tags	Register version, and associate the document with one or more rulemaking record items (the logical description of the document(s)). Upon uploading a replacement version for any rulemaking record item, the agency user will be prompted to select whether the replacement is to trigger a permanent delete of the replaced item, or a replacement which leaves the last version as an accessible historical record. The agency user will be able to select topics for a particular rulemaking proceeding or rulemaking record item. The agency user will be able to select or enter keywords/tags for a particular rulemaking proceeding or rulemaking record item. All users will be able to view rulemaking proceeding information in various forms within assigned permissions. All users will be able to view rulemaking proceeding information via a number of prepared queries and canned reports as well as via the user's ability to customize queries and reports and to apply search criteria (see variations below). All users will be able to download or export reports/queries in a variety of printer-friendly formats. (PDF, Word) The system will support the export of information into specific formats which include Excel, PDF, Word, and CSV. All users will be able to view a variety of canned reports. Reports will be combined for, but not limited to, legislative staff, agencies and the public. Specifics on reports is TBD. All users will be able to search rulemaking proceeding records by a variety of search parameters and filters, including topics and keyword/tabs and Revisor ID. More than one search parameter might be chosen at one time, further filtering the results. All users will be able to input search terms or phrases that will be combined with other search criteria that are matched to metadata for rulemaking proceedings, rulemaking events, rulemaking record items, and/or documents.
U011 U013 U013 U013 U013 U014 U014 U015 U015	R001 R002 R003 R001	Assign Keywords / Tags View Rulemaking Information View Report Search for Records or	Register version, and associate the document with one or more rulemaking record items (the logical description of the document(s)). Upon uploading a replacement version for any rulemaking record item, the agency user will be prompted to select whether the replacement is to trigger a permanent delete of the replaced item, or a replacement which leaves the last version as an accessible historical record. The agency user will be able to select topics for a particular rulemaking proceeding or rulemaking event or rulemaking record item. The agency user will be able to select or enter keywords/tags for a particular rulemaking proceeding or rulemaking record item. All users will be able to view rulemaking proceeding information in various forms within assigned permissions. All users will be able to view rulemaking proceeding information via a number of prepared queries and canned reports as well as via the user's ability to customize queries and reports and to apply search criteria (see variations below). All users will be able to download or export reports/queries in a variety of printer-friendly formats. (PDF, Word) The system will support the export of information into specific formats which include Excel, PDF, Word, and CSV. All users will be able to view a variety of canned reports. Reports will be created for, but not limited to, legislative staff, agencies and the public. Specifics on reports is TBD. All users will be able to search rulemaking proceeding records by a variety of search parameters and filters, including topics and keyword/tabs and Revisor ID. More than one search parameter might be chosen at one time, further filtering the results. All users will be able to input search terms or phrases that will be combined with other search criteria that are matched to metadata for rulemaking proceedings, rulemaking events, rulemaking record items, and/or documents. All users will be able to view a result set from a query and be able to seep through any kewords/tags selected.
U011 U013 U013 U013 U013 U014 U014 U015	R001 R002 R003	Assign Keywords / Tags View Rulemaking Information View Report Search for Records or Topics or Keywords/Tags	Register version, and associate the document with one or more rulemaking record items (the logical description of the document(s)). Upon uploading a replacement version for any rulemaking record item, the agency user will be prompted to select whether the replacement is to trigger a permanent delete of the replaced item, or a replacement which leaves the last version as an accessible historical record. The agency user will be able to select topics for a particular rulemaking proceeding or rulemaking event or rulemaking record item. The agency user will be able to select or enter keywords/tags for a particular rulemaking proceeding or rulemaking record item. All users will be able to view rulemaking proceeding information in various forms within assigned permissions. All users will be able to view rulemaking proceeding information via a number of prepared queries and canned reports as well as via the user's ability to customize queries and reports and to apply search criteria (see variations below). All users will be able to download or export reports/queries in a variety of printer-friendly formats. (PDF, Word) The system will support the export of information into specific formats which include Excel, PDF, Word, and CSV. All users will be able to view a variety of canned reports. Reports will be able to view a variety of canned reports. Reports will be able to search rulemaking proceeding records by a variety of search parameters and filters, including topics and keyword/tabs and Revisor ID. More than one search parameter might be chosen at one time, further filtering the results. All users will be able to input search terms or phrases that will be combined with other search criteria that are matched to metadata for rulemaking proceedings, rulemaking events, rulemaking record items, and/or documents. All users will be able to view a result set from a query and be able to step through any kewords/tags selected. Upon submitting keyword search criteria, the result set will be aggregated up to a list
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U017	R002		All users will be able to conduct faceted searches (i.e. searching within a specific result set) for a topic or keyword or more than one topic or keyword or an intact phrase.
U018		View My Saved Rulemaking Info	An agency user will be able to save and return to a dynamic view of rulemaking proceeding records of personal interest through interaction with various filters and then saving the desired query results. Future system enhancements would allow this feature for legislative and public users as well.
U018	R001		An agecny user will be able to name and save the query behind a desired result set of rulemaking proceeding records in order to run the query and obtain dynamic results at a later time.
U018	R002		If an agency user attempts to save the query behind a desired result set of rulemaking proceeding records and is not logged in, the user will be prompted to input his or her credentials to save the query without having to re-specify and rerun the displayed query in focus.
U019		Log In	An authorized user will be able to provide and manage login credentials (username and password).
U019	R001	150g m	An authorized user will be able to present credentials (username and password) in order to log into the system.
U019	R003		An authorized user will be able to change his or her password.
U020		Authenticate User	The system will authenticate the credentials entered by the user (see nonfunctional security requirements).
U020	R001		They system will authenticate the user based on the submitted username and password.
U021		Authorize User	The system will determine and control the user's permissions throughout the user's active session.
U021	R001		The system will ensure an authenticated user can only perform functions for which his or her role has assigned permissions, such as entering rulemaking events for a particular agency.
U021	R002		The system will ensure that an unauthenticated user can only perform public functions available to any user.
U022		Manage System Trigger Configurations	An admin user will be able to configure scheduled, on-event or on-demand actions based on data or temporal triggers
U022	R001		The system will allow an admin year to use temporal and/or data trigger/s) that will transfer data via a decired interface protectal to and from the
			The system will allow an admin user to use temporal and/or data trigger(s) that will transfer data via a desired interface protocol to and from the systems of such entities as the Secretary of State, State Archives, Courts, Legislative Committees, or Agencies.
U022	R002		An admin user will be able adjust and test code generated by the system trigger configuration.
U022	R003		The system will allow an administrative user to configure whether a configured trigger and action is fully automated or whether user approval is needed to launch the action.
U024		Provision User with Permissions	An admin user will be able to manage user accounts and permissions.
U024	R001	T CTTTIOSTOTIS	The admin user will be able to create, delete (logically) and suspend an account for a user.
U024	R002		A temporary username and password will be provided to any user upon account creation, which can be changed by the user.
U024	R003		The admin user will be able to create an account via copying another account as a starting template.
U024	R004		The admin user will be able to assign a user or a group to a role, and a user to a group.
U024	R005		Any user will be forced to change a temporary password upon its use.
U024	R006		The system will manage expirations of passwords and force the user to change a password at an interval determined by the admin.
U024 U024	R007 R008		The user's account will lock after a certain number of failed attempts, as determined by the admin.
0024	11008		The admin can configure whether a user can log in after an account is locked if after a certain amount of time, or if an admin is required to unlock.
U024	R009		The admin user will be able to assign functional permissions with create, read, update and delete rights specific to a user role.
U024	R010		The admin user will be able to assign permissions to a role based on data classifications with create, read, update and delete rights.
U027		Manage Report Offerings	An admin user will be able to configure canned reports.
U027	R001		Canned reports will be configured by an admin user making these pre-configured reports available to users in a canned report list.
U027	R002		An admin will be able to configure sort by algorithms for data elements with complex structures, such as alpha-numeric Statutory citations that
			might have more than one sort order behavior within a string.
11020	R003	Establish Notifications	A docket will be configured by an admin making the docket available to users in a canned report list.
U029 U031		Manage Notification	An admin user will be able to establish configured notifications. The agency user will be able to to manage notification configurations for particular recipients.
0031		Configurations	The agency user will be able to to mailage notification configurations for particular recipients.
U031		•	The agnecy user will be able to to manage notification configurations for Legislative Committees.
U032		Manage Domain Value Lists	An admin user will be able to manage domain value lists.
U032	R001		
			All domain value lists will be configurable by an agency-approved admin with the ability to instruct the system to either migrate old values to new
U033		Manage Standard	values, leave historical values intact, merge more than one old value into a new value, or split a value into more than one new values). An admin user will be able to manage standard rulemaking events and rulemaking record items for a particular rulemaking proceeding type.
11022	D004	Rulemaking Events & Items	An admin user will be able to create, update or delete standard rulemaking events and rulemaking record items for a particular rulemaking
U033	R001		proceeding type.
U035	P001	Manage Topics	An admin user will be able to manage topics used by users to categorize rulemaking proceedings.
U035	R001		An admin user will be able to manage topics used by users to categorize rulemaking proceedings using an agency determined taxonomy.
U036		Optimize Search Engine Results	An admin user will be able to optimize search engine behavior.
U036	R001		An admin user will be able to optimize search engine behavior to achieve the desired search engine results, such as tweaking the order of display or
			rank of some search terms over others. Some keywords/tags are user-inputted and assigned to a particular rulemaking proceeding or rulemaking event or rulemaking record item.
			Non-Functional Requirements
NF001	R001	Availability	The system shall be made available for state entities (Revisor's, Agencies, Legislature, etc.) 24/7 with the most critical times being the 12 hour period
			M-F from 6 AM to 6 PM.

	R002		Public and Office of Administrative Hearing access to the system shall also be 24/7
INFOOT			System maintenance shall be scheduled outside of the M-F from 6 AM to 6 PM timeframe.
NF002	R003 R001	Flexibility	The system shall allow for the flexibility required as changes in law can occur at any time with various lengths of time to conform.
	R002	riexibility	The MARSS system will be built with future enhancements in mind. The infrastructure and software architecture shall be such that it allows for ease of future implementation of the following: workflow, public notifications, reviews and electronic signatures, and public comments.
NF004	R001	Hardware Maintenance and Reliability	Hardware failures will not cause more than 4 hours of downtime.
NF005	R001	Software Maintenance and Reliability	The software solution must be viable for at least 10 years
NF005	R002	,	Custom developed components must be maintainable and expandable by Revisor Staff
NF005	R005		System must pass compliance with the Americans with Disabilities act testing. At a minimum the testing areas must ensure changes to the system will not prevent access to the permanent records or prevent legislature from gaining the oversight of the rulemaking process.
NF008	R001	Disaster Recovery	Time for full recovery of data is 24 hours or less.
NF009	R001	Data Migration	16.724 GB of Beta System documents and data will be migrated into MARSS.
	R002		SONARs from the LRL will be migrated into MARSS.
	R003		Beta System documents and data will be accessible from MARSS on the 1st day of operation.
	R004		14.1 GB of additional data may be added to the Beta System dataset in MARSS after MARSS is operational.
NF009	R005		The Beta System data will be flagged in a way to identify it as such. That is, the system can identify: a) Beta System dataset b) Beta System data entered using MARSS, to augment the Beta system dataset c) MARSS data
NF010	R001	Capacity	2.904 GB of new MARSS documents and data is estimated for the first year of operation.
NF010	R002		The system must be able to increase data capacity as needed.
NF010	R003		Retention of documents in the rulemaking record (RMR) is permanent i.e., forever.
	R001	Data Integrity	Documents shall be verifiable as authentic. This process may follow the same standards as the Revisor's Office has set forth for compliance with Minnesota Statute Chapter 3E.
	R004		Change history will be maintained for rulemaking record items. Metadata will be collected and stored upon every change to official items in the rulemaking record. This change tracking metadata will be accessible by authorized personnel.
	R001	Data Import	Only authorized users can add data or documents to MARSS.
NF012 NF012	R003		At the time new data or documents are added to MARSS, the system will perform automated validation of the data to detect errors or inconsistencies. Supported file formats for rulemaking record (RMR) documents are[1]: a) PDF/UA (ISO 14289-1-compliant) b) PDF/A (ISO 19005-compliant) c) PDF
NIFO12	DOOF		(highest quality available, with features such as searchable text, embedded fonts, lossless compression, high resolution images, device-independent specification of color, space, content tagging; includes document formats such as PDF/X). d) PDF files containing hidden OCR text. e) PDF files containing only raster or vector data. This is the least desirable format. To support MARSS's text search functions, an OCR program will be used to create and add text to the PDF. The OCR program may misspell words, so it is preferable that the document creator deliver a text PDF.
NF012	KUU5		If a raster or vector PDF is imported into MARSS, the system will use an OCR program to create and add text to a new copy of the PDF. MARSS will store both the original raster PDF and the second PDF containing OCR text.
NF012	R006		Supported file formats for supporting (non-RMR) documents are: a) Documents b) Audio - MP#
NF012	R007		MARSS needs to support capturing pages out of the State Register. The captured pages will be stored as PDF files.
	R008		The system will confirm to the authenticated user that the data import was successful or unsuccessful.
	R009 R001	Sensitive Data	Immediately following successful data import, the data will be searchable and retrievable by all users – authenticated and public Sensitive data will not be stored in MARSS. Only public data will be maintained in the system, with some displayed for public viewing and some not selected for public viewing because of timing or because the data is not the official rulemaking record items, but are, rather, supplemental in nature.
NF013	R004		Protecting sensitive data is the responsibility of the document creator (i.e., an agency responsibility).
NF013	R005		MARSS UIs will: Remind authenticated users to handle sensitive data appropriately "It is the responsibility of the party or their attorney to
			determine if the document contains not public, confidential or sensitive information"
	R001	Data Export/Delivery	Data being sent from MARSS to any destination will be encrypted.
	R001 R002	Records Retention	Completed rule making records are permanent in nature. They MUST be preserved forever. Retention schedule for abandoned rules can be decided by the Agencies. Agencies are allowed to keep their own records retention requirements for an adopted rules. Change history of data transactions, however, will be maintained in MARCS.
NF016	R001	Preservation	non-adopted rules. Change history of data transactions, however, will be maintained in MARSS. The Minnesota Historical Society will receive and maintain a digital copy of all rulemaking records.
	R002	Trescribation	Only authorized users can delete data and documents
	R001	Security	The system will accommodate a minimum of 300 authorized concurrent users.
NF017	R002	·	When a user is removed from the list of authorized users, all metadata about the user remains in the system, permanently. A user's authorization may expire, but their account information will remain in the system permanently.
NF018	R001	Authentication	Only Revisor staff can create or delete authorized users.
	R002		Authentication must comply the latest MN.IT Enterprise Identity and Access Management Standard.
	R003 R004		If practical, the system will use the identity management solution implemented by MN.IT. As required by statutes, the public shall have access to all documents in the rulemaking record after rule adoption. Documents may be made available via public display prior to adoption at the agency's discretion. All data, whether displayed or not, is considered to be public in the MARSS purpose.
NF019	R001	Authorization and Permissions	Only Revisor staff control the assignment, and deletion of permissions for authorized users.
NF019	R002	. C. Missions	Agency personnel shall have access to create and modify all records assigned to their agency.
	R003		Document level permissions shall be supported.
NF019	R004		Role-based authorization is preferable.
NF020	R001	Performance for the	Performance requirements are to meet the standards set for the current Revisor system.

NF021		Performance for the Public, Non-Authenticated	The system must support 200 concurrent, public users.
		User	
NF021	R007		MARSS will support audio playback of two hour, MP3 files
NF022	R001	Web Support	Supported Browsers are: a) Current version of Internet Explorer b) Current version of Google Chrome c) Current version of Mozilla Firefox d) Current
			version of Safari
NF022	R002		User interfaces shall adhere to the MN.IT Accessibility Standard.
	R002		Web pages must be displayable on mobile devices.
NF022	R004		All URLS shall be designed as permanent URLs.
NF022	R006		Creating accessible documents remains the responsibility the office creating each document.
NF023	R001	Programatic Interfaces	MARSS will provide a web service so Revisor software applications can dynamically READ MARSS data.
NF032	R002		MARSS will not provide an externally accessible web service to programmatically WRITE MARSS data.
NF023	R003		Using a predefined list of recipients, MARSS can programmatically send a notification to each recipient. Notifications will be sent using a TBD
			protocol (e.g. email, text, etc.).