

How to Validate and Submit ACDC Drawings via the ACDC Portal

For brevity, a very simple summary of the key steps required to submit your DWG and associated As Constructed files is provided here. Please read on through the rest of the document for explanations and screen shots if you require more detail.

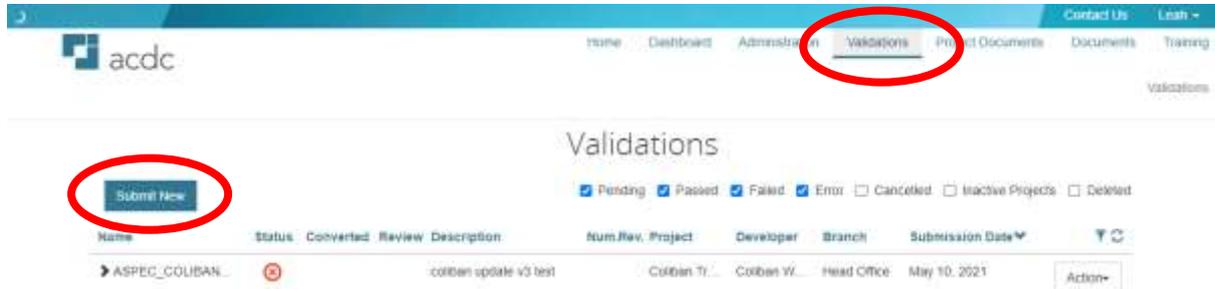
In Summary:

- Go to the ACDC website and login. (<https://asconstructed.com/>)
- Select the **Validations** tab and click **Submit New**.
- Fill out the validation form:
 - Description: ME Number and project name following Coliban Water's naming convention Eg: WME12345 High Street Echuca
 - SMEXXXXX_Project_Name_ASCON01.dwg
 - WMEXXXXX_Project_Name_ASCON01.dwg
 - <Capital_Project_NumberXXXX_Project_Name_ASCON01.dwg
 - Drawing Number: WME12345
 - Drawing Revision: 1, 2, 3, etc
 - Customer: Always Coliban Water
- Once the validation passes, upload a PDF version of the As Con, and any other relevant files such as CCTV or long sections.
- To upload a PDF As Con or long section:
 - go to the **Project Documentation** tab and choose the relevant project from the drop-down list.
 - Drag and drop, or navigate to your PDF file(s)
 - Depending on when your project was created, you should see options for PDF As Con, PDF Long Section, and CCTV. Contact your Case Manager if these options are missing.
- To upload CCTV files: (formats accepted are ZIP, 7Z, MP4, AVI, MPG, MPEG, MP2) Choose **Action > Upload** then drag and drop, or navigate to your video or zip files, then click **Submit**.
 - **NB: There is a 2GB limit on file size** so you may need to upload your videos in separate files, or upload one video per length pipe, or some other agreed and logical way to split the video files.
- If the validation fails, troubleshoot validation errors:
 - On the failed drawing, click **Action > Download Failed Drawing**.
 - A zip folder will be downloaded containing a text file summarising the errors, and a CAD file with the locations of the errors circled.
 - Attribute errors will require you to look up W-Spec or S-Spec to confirm the allowable values. The most recent versions of both documents are available in the **Documents** section of the ACDC Portal for you to download.
 - There are also tutorial videos, and a procedure, "**Guide to Correcting ACDC Drawing Validation Errors**" in the **Documents** tab of the ACDC Portal for some tips in addressing validation errors.
 - If you are still having trouble, please get in touch – we're here to help! Email GISAdministration@coliban.com.au

Detailed Procedure

Go to the ACDC website and login. (<https://asconstructed.com/>)

Select the **Validations** tab and click **Submit New**.



Fill out the Validation form.

Description	Full Project or ME name and number For example: SME12345, WME12345 Viewpoint Estate Huntly Stage 5 Or "Heathcote Backlog Sewer Scheme"
Drawing Number	The Coliban Water reference number (WME12345 or SME12345)
Drawing Revision	Version of the drawing being submitted for validation (1, 2, 3 etc)
Project	Choose from the drop-down list of projects. This drop down contains all the projects currently assigned to your company. If the project you need to submit is missing, please contact your Coliban Water Case Manager or Project Manager, or Coliban Water's GIS Department, GISAdministration@coliban.com.au
Customer	Will always be "Coliban Water"

Drawing name Coliban_Developer_Test_CAD.dwg

Description Coliban Developer Test Submission

Drawing Number 1234

Drawing Revision 01

Customer Coliban Water

Project Coliban Training Test

Name	Value
Description	ACDC_COLIBAN_ASPECR0_V3
Validation Set Version	3.0
Specification Version	4.4
Date Created	Jul 21, 2020
Last Update Date	
Validation Set Name	ACDC_COLIBAN_ASPECR0_V3

Drawing File Coliban_Developer_Test_CAD.dwg

Last Modified Jun 22, 2021 2:25:06 PM

Size 2.05 MB

[Remove](#)

Upload your drawing, following Coliban Water's naming convention:

- SMEXXXXX_Project_Name_ASCON01.dwg
- WMEXXXXX_Project_Name_ASCON01.dwg
- <Capital_Project_NumberXXXX_Project_Name_ASCON01.dwg

Click **Submit**.

ACDC Portal Drawing Validation Checks

Validation checks will now be executed on the drawing you have just uploaded.

Purple Arrows show the validation process is in progress on the ACDC servers.

Validations

[Submit New](#) Pending Passed Failed Error Cancelled Inactive Projects Deleted

Name	Status	Converted	Review	Description	Num.Rev.	Project	Developer	Branch	Submission Date	Action
Coliban_Developer...				Coliban Developer Tes...	1	01 Coliban Tr...	Coliban W...	Head Office	Jun 28, 2021	Action

Drawing Successfully Passed Validation

A green tick indicates the drawing has successfully pass the validation. Well done! You have successfully submitted a valid A-Spec compliant drawing.

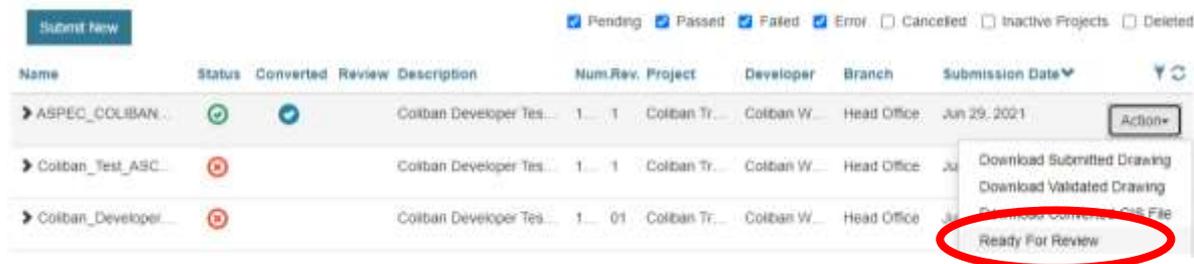


The screenshot shows a table titled "Validations" with a "Submit New" button and filter checkboxes for Pending, Passed, Failed, Error, Cancelled, Inactive Projects, and Deleted. The table has columns: Name, Status, Converted, Review, Description, Num.Rev, Project, Developer, Branch, and Submission Date. A red circle highlights the green checkmark in the Status column for the row "ASPEC_COLIBAN...".

Name	Status	Converted	Review	Description	Num.Rev	Project	Developer	Branch	Submission Date	Action	
ASPEC_COLIBAN...	✔	✔		Coliban Developer Tes...	1	1	Coliban Tr...	Coliban W...	Head Office	Jun 29, 2021	Action

The drawing now needs to be reviewed by Coliban Water's Case Manager or Project Manager before it is accepted as a complete A-Spec compliant ACDC drawing for the project.

Click **Action**, and select **Ready for Review**.



The screenshot shows the same table as above. The "Action" button for the first row is clicked, and a dropdown menu is visible. The "Ready For Review" option is circled in red.

Name	Status	Converted	Review	Description	Num.Rev	Project	Developer	Branch	Submission Date	Action	
ASPEC_COLIBAN...	✔	✔		Coliban Developer Tes...	1	1	Coliban Tr...	Coliban W...	Head Office	Jun 29, 2021	Action
Coliban_Test_ASC...	✘			Coliban Developer Tes...	1	1	Coliban Tr...	Coliban W...	Head Office	Jun 29, 2021	Action
Coliban_Developer...	✘			Coliban Developer Tes...	1	01	Coliban Tr...	Coliban W...	Head Office	Jun 29, 2021	Action

An email will be sent to the Coliban Water Case Manager or Project Manager, and the GIS Team.



The screenshot shows the same table as above. The "Action" button for the first row is clicked, and a dropdown menu is visible. The "Ready For Review" option is circled in red.

Name	Status	Converted	Review	Description	Num.Rev	Project	Developer	Branch	Submission Date	Action	
ASPEC_COLIBAN...	✔	✔	✔	Coliban Developer Tes...	1	1	Coliban Tr...	Coliban W...	Head Office	Jun 29, 2021	Action

Once the drawing is accepted by Coliban Water an email notification will be sent to the Developer notifying them that the drawing has been accepted.



The screenshot shows the table with the first row's Status, Converted, and Review columns circled in red, indicating the drawing is now accepted.

Name	Status	Converted	Review	Description	Num.Rev	Project	Developer	Branch	Submission Date	Action	
ASPEC_COLIBAN...	✔	✔	✔	Coliban training test	1	2	Coliban Tr...	Coliban W...	Head Office	Aug 5, 2020	Action

No further action is required on behalf of the Developer.

Thank you for your efforts!

If the Validation fails, see the next section on Validating Validation Errors.

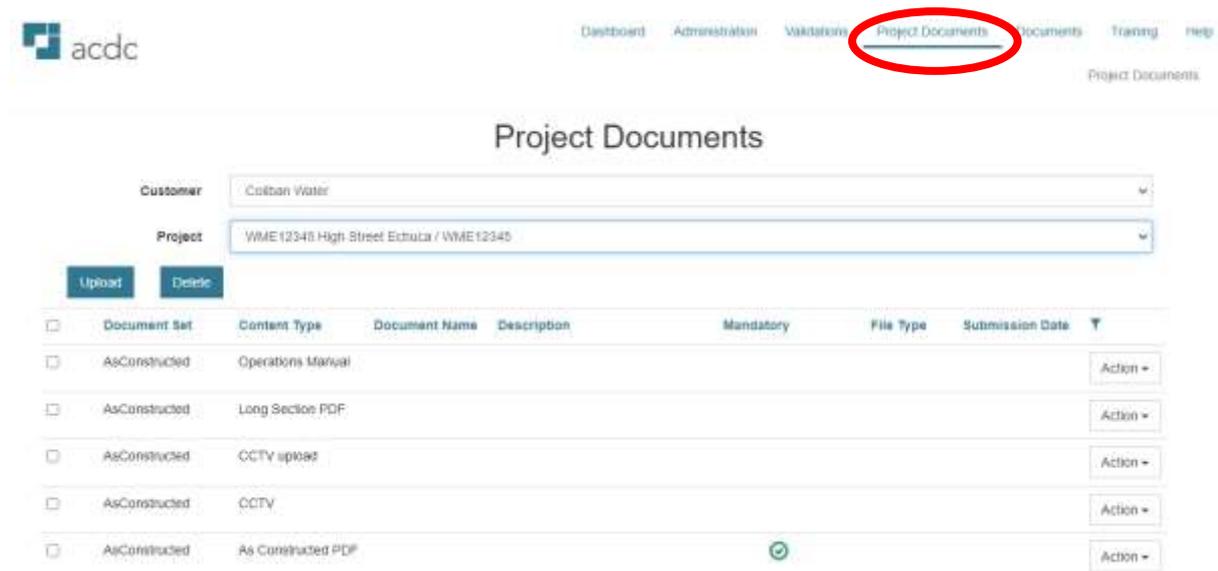
Uploading PDFs and CCTV Files

In some cases there will be further documentation to be uploaded in addition to the successfully validated DWG file.

In all cases, Coliban Water also require a PDF copy of the As Constructed Drawing.

Sewer projects will also require longitudinal sections and CCTV footage to be uploaded.

To upload these supporting files, go to **Project Documents** then choose your project from the Project drop down list. Only projects that have been assigned to you should be visible.

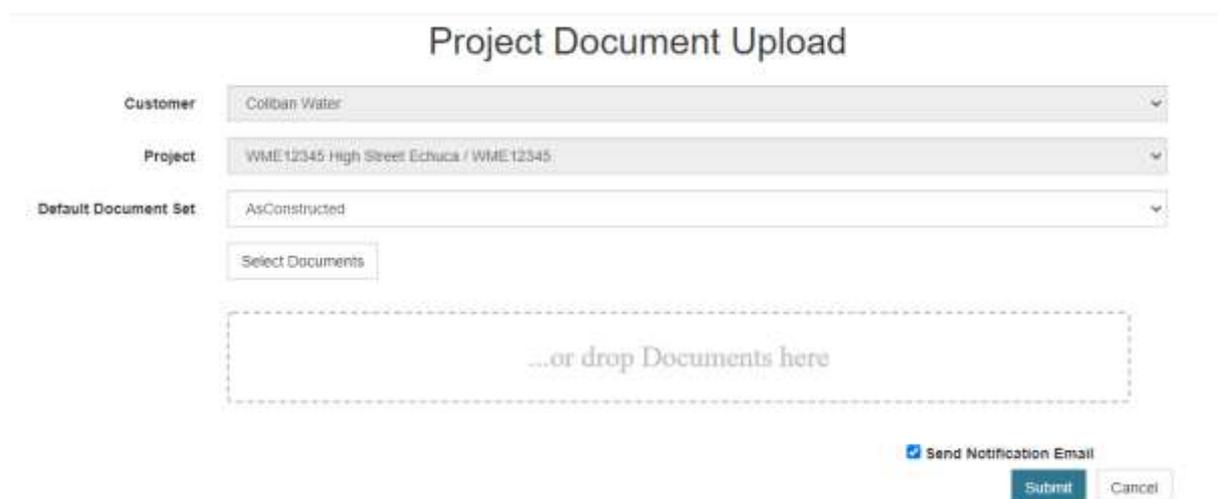


The screenshot shows the 'Project Documents' page in the acdc system. The navigation menu at the top includes 'Dashboard', 'Administration', 'Validations', 'Project Documents' (highlighted with a red circle), 'Documents', 'Training', and 'Help'. The main content area is titled 'Project Documents' and features two dropdown menus: 'Customer' (set to 'Coliban Water') and 'Project' (set to 'WME12345 High Street Echuca / WME12345'). Below these are 'Upload' and 'Delete' buttons. A table lists document sets with columns for checkboxes, Document Set, Content Type, Document Name, Description, Mandatory, File Type, Submission Date, and Action. The table contains five rows of data, with the last row marked as mandatory and having a green checkmark.

<input type="checkbox"/>	Document Set	Content Type	Document Name	Description	Mandatory	File Type	Submission Date	Action
<input type="checkbox"/>	AsConstructed	Operations Manual						Action >
<input type="checkbox"/>	AsConstructed	Long Section PDF						Action >
<input type="checkbox"/>	AsConstructed	CCTV upload						Action >
<input type="checkbox"/>	AsConstructed	CCTV						Action >
<input type="checkbox"/>	AsConstructed	As Constructed PDF			<input checked="" type="checkbox"/>			Action >

To upload CCTV files (formats accepted are ZIP, 7Z, MP4, AVI, MPG, MPEG, MP2) Choose **Action > Upload** then drag and drop, or navigate to your video or zip files, then click **Submit**.

NB: There is a 2GB limit on file size so you may need to upload your videos in separate files, or upload one video per length pipe, or some other agreed and logical way to split the video files.



The screenshot shows the 'Project Document Upload' form. It includes three dropdown menus: 'Customer' (Coliban Water), 'Project' (WME12345 High Street Echuca / WME12345), and 'Default Document Set' (AsConstructed). Below these is a 'Select Documents' button and a large dashed box with the text '...or drop Documents here'. At the bottom right, there is a checked checkbox for 'Send Notification Email' and two buttons: 'Submit' and 'Cancel'.

Validation Errors – Troubleshooting Validation Errors

A red cross indicates the drawing has validation errors and has therefore failed validation.



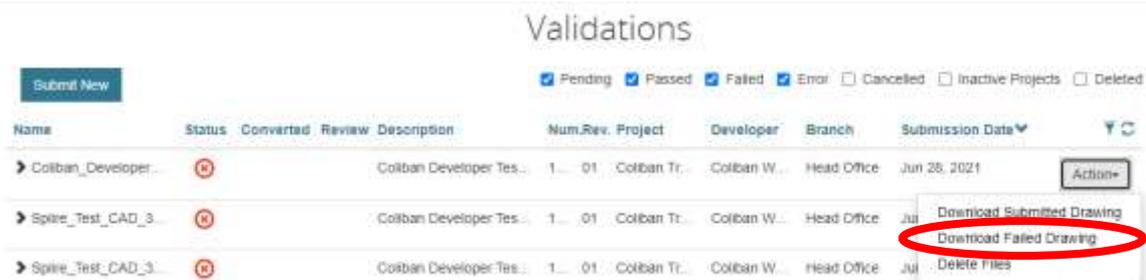
The screenshot shows a table titled 'Validations' with a 'Submit New' button and filter checkboxes for Pending, Passed, Failed, Error, Cancelled, Inactive Projects, and Deleted. The table has columns: Name, Status, Converted, Review, Description, Num.Rev., Project, Developer, Branch, and Submission Date. The first row shows 'Coliban_Developer...' with a red cross in the Status column, indicating a failed validation.

Name	Status	Converted	Review	Description	Num.Rev.	Project	Developer	Branch	Submission Date	Action	
Coliban_Developer...	✘			Coliban Developer Tes...	1...	01	Coliban Tr...	Coliban W...	Head Office	Jun 28, 2021	Action

The errors in the drawing will need to be addressed before resubmitting the drawing as per the earlier steps.

Correcting Validation Errors

Click on the **Action** button and **Download Failed Drawing**.



The screenshot shows the 'Validations' table with three rows. The first row is 'Coliban_Developer...' with a red cross. The 'Action' button is clicked, and a dropdown menu is visible with options: 'Download Submitted Drawing', 'Download Failed Drawing' (highlighted with a red circle), and 'Delete Files'.

Name	Status	Converted	Review	Description	Num.Rev.	Project	Developer	Branch	Submission Date	Action	
Coliban_Developer...	✘			Coliban Developer Tes...	1...	01	Coliban Tr...	Coliban W...	Head Office	Jun 28, 2021	Action
Spire_Test_CAD_3...	✘			Coliban Developer Tes...	1...	01	Coliban Tr...	Coliban W...	Head Office	Jul ...	Download Submitted Drawing Download Failed Drawing Delete Files
Spire_Test_CAD_3...	✘			Coliban Developer Tes...	1...	01	Coliban Tr...	Coliban W...	Head Office	Jul ...	

A zip file will be downloaded to your local drive which contains the submitted drawing with the errors highlighted in red and yellow circles, and a log file (text file) summarising the errors. A sample log file is shown below.

Open this drawing in AutoCAD.

- Yellow circles - errors with the attribute block data (ERRORS_ATTR)
- Red circles - errors with object geometry (ERRORS_GEOM)
- Pink circles - errors where a feature sits outside the defined Coliban Water extent (ERRORS_EXTENT)

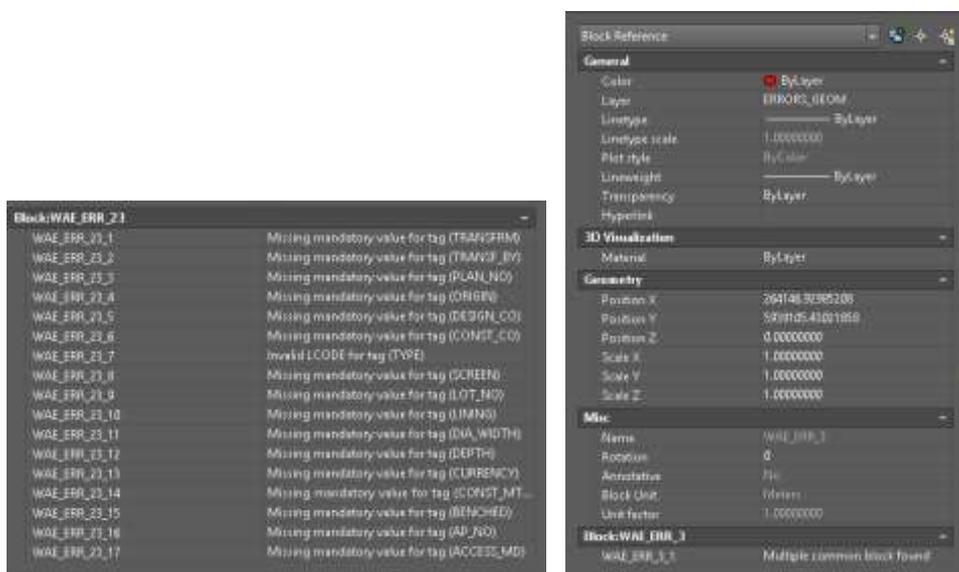
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ASPEC_COLIBAN_V3_FAIL.log - Notepad
File Edit Format View Help
Start log for analysing objects,05/08/2020 11:25:39,ASPEC_COLIBAN_V3_FAIL.dwg
Flag Centre=347033.43204654,6010156.88533418,Block Name=WAE_ERR_1,Isolated configured block found.
Flag Centre=347062.13114973,6010166.86658320,Block Name=WAE_ERR_10,Invalid LCODE for tag (POSITION)
Flag Centre=347104.17241071,6010171.58716921,Block Name=WAE_ERR_11,Value is not an integer for tag (DIAMETER)
Flag Centre=347104.17241071,6010171.58716921,Block Name=WAE_ERR_12,Entity found outside of configured ACDC extents.
Flag Centre=347029.06503034,6010156.28513968,Block Name=WAE_ERR_2,No attribute block found at end of this SC
Flag Centre=347044.34465519,6010164.07797328,Block Name=WAE_ERR_3,String too long for tag (SHUT_OFF)
End log for analysing objects,05/08/2020 11:25:41,ASPEC_COLIBAN_V3_FAIL.dwg

Result Summary
Attribute Errors:3
Spatial Errors:2
Break Errors:0
Extent Errors:1
Failed Entities:5
Analyzed Entities:10
Total Entities:21

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In AutoCAD, select each error and view the details in the Properties tab.



Each error needs to be rectified in the corresponding A-Spec asset layers prior to the drawing being resubmitted for validation in the ACDC Portal.

Please see the document, **“Guide to Correcting ACDC Drawing Validation Errors”** in the Documents tab of the ACDC Portal for some tips in addressing validation errors.

The process for submitting a drawing needs to be repeated until the drawing successfully passes validation.

If you receive a yellow triangle error  this can indicate a corrupt drawing file, or that something is significantly wrong. Open Spatial will be notified if you receive this error and should be in touch to discuss how to fix it up. In training, they advised us that this error can relate to x-refs, or to residual objects in the drawing and the solution is to WBLOCK objects to a new drawing and then performing and AUDIT command.

If you are having significant trouble getting your drawing to pass validation, please give us a call or an email and we can work through the errors and look at the CAD file with you, or even pass it on to Open Spatial if needs be. The best way to get in touch is via email, GISAdministration@coliban.com.au . This email address goes to all five of us in the GIS Team, so you should always get a speedy response.