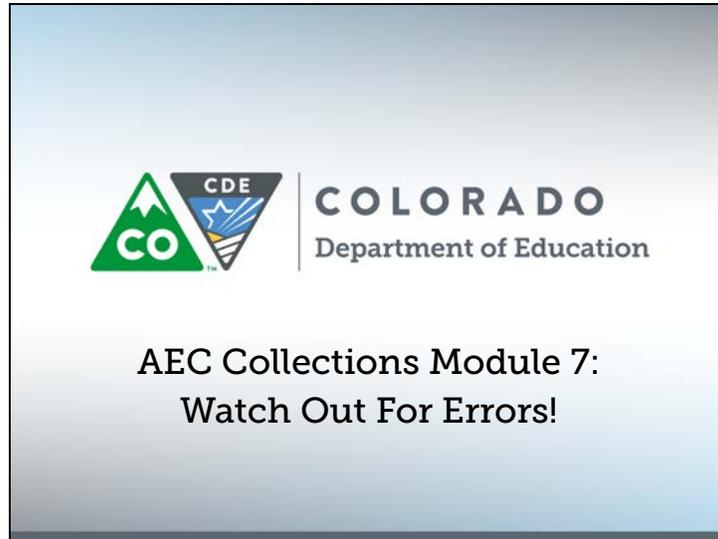
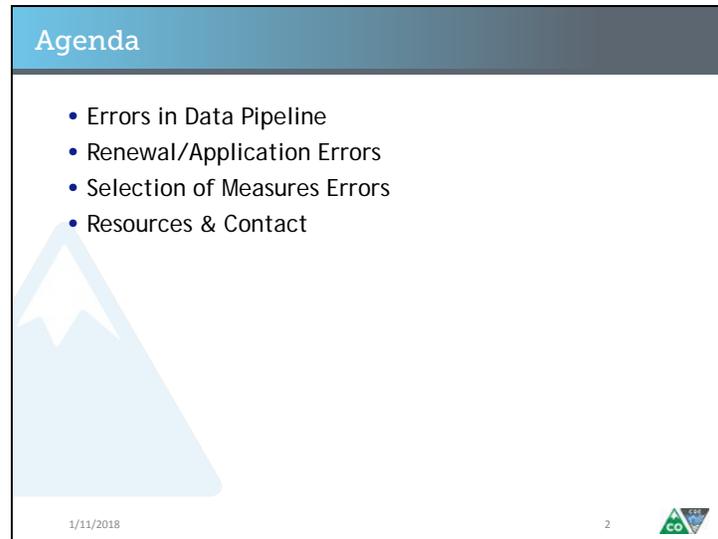


Slide 1



Welcome to the AEC Collections video module! My name is B Sanders, and this is the seventh and final AEC Collections video module. In this module, we'll talk about how to spot errors in the Data Pipeline system and what errors to look for in the AEC Pipeline Collections. To make sure we're on the same page, AEC stands for Alternative Education Campus. Let's get started.

Slide 2



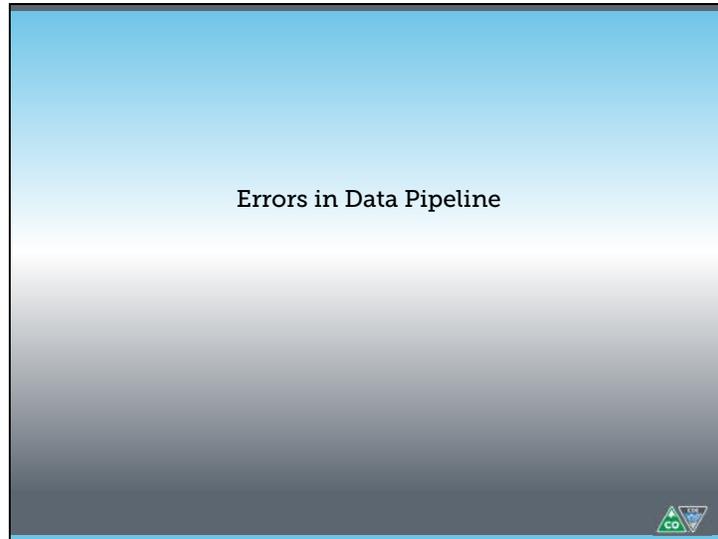
Agenda

- Errors in Data Pipeline
- Renewal/Application Errors
- Selection of Measures Errors
- Resources & Contact

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Here's what we're going to talk about today. First, I'll talk about how the Data Pipeline system notifies you of potential errors in your data. Next, I'll talk through what to look for in your collection data sets to prevent errors from occurring. Finally, I'll touch on some general resources and contacts that will be useful as you work on your AEC Pipeline Collections.

Slide 3



Let's look at how the Data Pipeline system notifies you of a potential error.

Errors in Data Pipeline
What is an error?

- Invalid codes
 - Missing data in required fields
 - Incorrect codes in a given field
- Data that breaks a logic rule in a given field

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First, let's define what constitutes an error in the Data Pipeline system. Errors in Data Pipeline can be placed into two groups: either the error is because the data in that field is an invalid code for that field, or the data in that field breaks a logic rule embedded in that field. Examples of an invalid code might be that data is required in that field, but no data is present, or that only numeric values are allowed but text is present instead. An example of broken logic would be that the value in the field must be larger than a certain minimum threshold, say 20, and the data entered is only 17.

Errors in Data Pipeline
What is an error?

- Invalid codes
 - Missing data in required fields
 - Incorrect codes in a given field
- Data that breaks a logic rule in a given field

Data errors will need to be resolved before submitted data can be finalized.

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The reason you need to understand that errors exist, and the kinds of errors there are, is because you must resolve all the errors in your data before your data submission can be finalized. If errors are still present in your data when the collection window closes, I will need to reach back out to you to ask you to resubmit with the errors cleaned out. Now, let's look at how the Data Pipeline system flags errors for you to see.

Slide 6

Errors in Data Pipeline *Errors in Add Record*

The new record has been submitted to Batch ID 356P97, however, it may have ERRORS. To view and correct errors please go to the "Edit Record" Redscreen and select the appropriate file type.

District Code: 0130-CHERRY CREEK
School Code: 2063-ENDEAVOR ACADEMY
AEC Indicator: 3-Student Engagement
Assessment: 210-Gateway Keys Data
AEC Assessment Category: 1130-Community Keys Data
AEC Metric for selected category: 1-Percentage
AEC Students Meeting Measure: RED
AEC Total Students for Measure: 20
AEC Rate of Students passing the measure: 0

Submit/Add Record

Records added with errors will still be submitted to the Data Pipeline system, but you will receive a notice that they are an error, and they will be flagged in RED.

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If you are trying to add a record, and you add a record in a way that results in an error, the Data Pipeline system will flag it for you as displayed on this slide. It's worth noting that the only way to add a record with an error in it is by adding a record to the actual measures and data collection. Adding a record to the planned measures collection is unlikely to result in errors because you will only be selecting the measure names from the drop downs. With the actual measures collection there are logic rules embedded in the data entry portion that allow for errors to occur. If an error is entered, the error will enter the Data Pipeline system, but will be flagged in red, as shown here.

Slide 7

Errors in Data Pipeline
Errors in Edit Record

Edit Record

Sort Order #1: School Code
Sort Order #2: AEC Indicator
Sort Order #3: Assessment
Save Data

Fields shown in RED have an error

Total # of Records: 1

	District Code	School Code	AEC Indicator	Assessment	AEC Assessment Category	AEC Metric for selected category	AEC Students Meeting Measure	AEC Total Students for Measure	AEC Rate of %
1	2012C	20034	3-Grade	202C	1730 Gateway Key	1-Percentage	0%	2%	

When you load an edit record screen for a given collection, any errors will be flagged in **RED**.

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You can also use the edit record screen to find errors in your existing Data Pipeline data. Any fields with red shading, as shown here, are flagged as errors. You can make changes to these fields in order to correct errors in this screen. If you do so, remember to hit the save button at the bottom of the screen.

Slide 8

Errors in Data Pipeline *Error Report*

- + File Upload
- + Alternative Education
- + Dataset Administration
- + Pipeline Reports
 - Error Report**
- + Cognos Report

The Pipeline Error Report is useful for file downloads/uploads. This will tell you how many errors and what types of errors an uploaded file contains. The [View Details](#) button will take you to those specific rows and let you edit them with the Edit Record screen.



Error Report

Default: Alternative Education Category | File Type: Alternative Application for AEC Collection

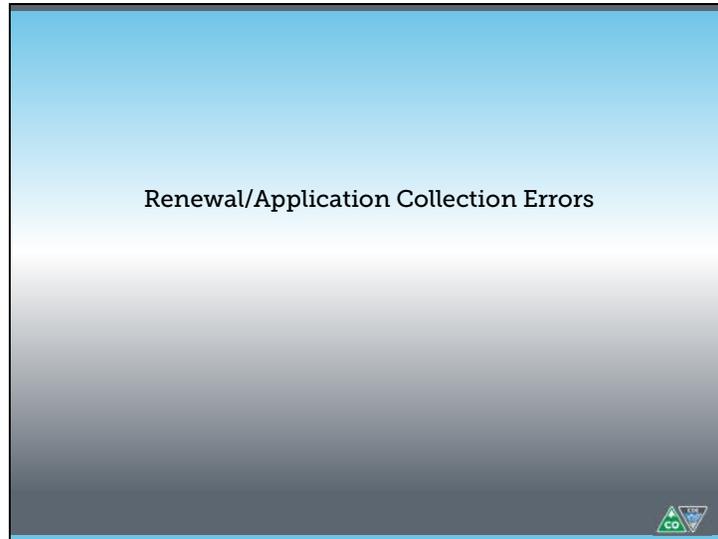
School Year: 2017-18 | Organization/LEA: BRIDGEMONT COUNTY

Error Type: Error

Default	Default	Default	Error	Error Message	Count
✓	AE000	E	Individuals Present in an invalid code		100
✓	AE000	E	Invalid application in an invalid code		100
✓	AE001	E	Other high school in an invalid code		2000
✓	AE001	E	Case credits entered at time of entry should not be greater than the total credits earned at time of entry		4

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There is also an error report function in the Data Pipeline system. This is a useful way to find errors in any of the AEC Collections, and is useful no matter how you go about completing and uploading the AEC Collection data. If you are downloading and uploading file extracts, this is the best way to check any potential errors, and should be done once you've uploaded your file. The error reports will also work if you're adding and editing records through the pipeline web interface.



Now that we've walked through how to find potential errors in the Data Pipeline system, let's look at each of the AEC Pipeline Collections in turn and talk through what constitutes an error for each. We'll start with the error logic for the Renewal/Application Collection.

Renewal/Application Collection
File Layout and Definitions

<http://www.cde.state.co.us/datapipeline/aec-application-renewal-filelayout-1819>

Alternate Education Campus Renewal File

0	Not Migrant
1	Migrant

Homeless - Student is homeless, as defined in Section 22-3-102.5 (2), C.R.S. This field is pre-filled with 2017 Student October Count data. If the student has a homeless code of 3 or 4, the student is Regged/home.

0	Not Homeless
1	Homeless

Over Age and Under Credit - Student is over traditional school age for their grade level and lack adequate credit hours for their grade level. Only high school students are eligible for this high risk category. The table below should be used as a reference for how to measure over age and under credit students in your district/school for reporting on the AEC Application.

Anticipated Year of Graduation	All Credits (based on credits accumulated at the end of 2016-2017 school year)	Core Credits (based on credits accumulated at the end of 2016-2017 school year)
2015 or earlier	Student has earned less than 100% of credits required to graduate	Student has earned less than 100% of core content credits required to graduate
2016	Student has earned less than 100% of credits required to graduate	Student has earned less than 100% of core content credits required to graduate
2017	Student has earned less than 75% of credits required to graduate	Student has earned less than 75% of core content credits required to graduate
2018	Student has earned less than 50% of credits required to graduate	Student has earned less than 50% of core content credits required to graduate
2019	Student has earned less than 25% of credits required to graduate	Student has earned less than 25% of core content credits required to graduate
2020	Student has not earned any credits required to graduate	Student has not earned any core content credits required to graduate
2021	N/A	N/A

Please review the Renewal/Application collection File layout and Definitions document carefully before starting your data submission!

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It is key that you familiarize yourself with the file layout for any collection you manage. The file layout and definitions document for every collection will include important information related to error logic. The link at the top of this slide is where you will find this document.

Slide 11

Renewal/Application Collection <i>Fields To Complete</i>			
<i>Renewal/Application Collection – Initial Extract</i>			
Field	Valid Codes	Code Values	Null Values Permitted?
Habitually Truant	0, 1	0=No 1=Yes	No
Justified Expulsion	0, 1	0=No 1=Yes	No
Other High Risk	0, 1	0=No 1=Yes	No
Total Credits Earned at Time of Entry	Any positive number	NA	Yes, if no data entered for total credits required to graduate
Core Credits Earned at Time of Entry	Any positive number	NA	Yes, if no data entered for core credits required to graduate
Total Credits Required to Graduate	Any positive number	NA	Yes, if no data entered for total credits earned
Core Credits Required to Graduate	Any positive number	NA	Yes, if no data entered for core credits earned

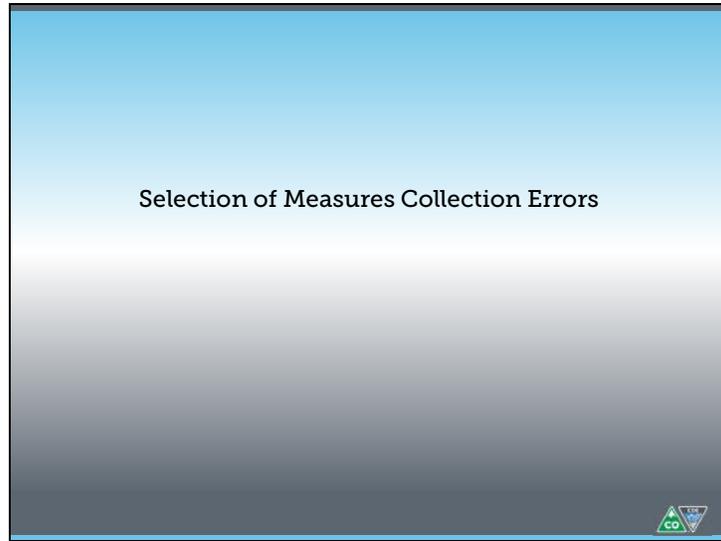
This table outlines what fields in the Renewal/Application Collection you will need to complete, and how they will need to be completed. For the first three fields, only a value of 0 or 1 is permitted, and no null values are permitted. For the last four fields, which are all related to over age and under credited designation, null values are permitted in some circumstances, and positive numbers are fine to enter. Once in the system, calculations are run on the over age and under credited fields to determine that designation based on the credit totals.

Slide 12

Renewal/Application Collection <i>Over Age and Under Credit (OAUC) Logic</i>	
Error Logic	Reason
Data is entered for Total Credits Earned but not for Total Credits Required	Cannot determine if (OAUC) without credits required threshold
Data is entered for Core Credits Earned but not for Core Credits Required	Cannot determine if (OAUC) without credits required threshold
Core Credits Required is equal to or larger than Total Credits Required	Likely an error; would suggest no possibility of elective credits
Total Credits Earned is equal to or larger than Total Credits Required	Likely an error; Total Credits Required should be cumulative, not number left
Core Credits Earned is equal to or larger than Core Credits Required	Likely an error; Core Credits Required should be cumulative, not number left

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Since there is additional layers of embedded logic for the over age and under credited designation, you should be aware of the logic rules that are in place. Your data will be flagged with errors if any of the logic rules on this slide are broken. This slide shows the logic rule on the left, and the reasoning behind that logic rule on the right. Please feel free to reach out to me, B Sanders, if you have any questions about these logic rules.



Let's look at the error logic for the Selection of Measures Collections.

Selection of Measures Collections
File Layout and Definitions

<http://www.cde.state.co.us/datapipeline/aec-actual-measures-layout>

Alternate Education Campus – Actual Measures

380	Student Re-engagement Rate
390	TABE
470	Vocational Placement
400	WIDA ACCESS
410	Workforce Readiness
420	WorkKeys
421	WorkKeys Certificate
999	New Subindicator

AEC Subindicator Category – The content area or specific area of interest of the assessment or subindicator being submitted for consideration as an optional measure for the AEC SP. Choose from the list below of previously approved optional measures. If you would like to submit an optional measure and you do not see it listed below, choose **999 – New Category**.

Choosing **999 – New Category** will begin a conversation with CDE about the specifics of your submitted optional measure. This does not guarantee that it will be approved.

Choosing one of the previously approved subindicators below does not guarantee approval of your submitted measure. CDE reserves the right to reach out with clarifying questions regarding your submitted data and collection methods.

1000	Achieving Annual IEP Goals
1030	Behavior
1340	By Course
1350	By Student
1065	Composite Score
1040	Certificate Earned Rate
1050	College Course Completion
1060	Composite ACT Score

Please review the File layout and Definitions documents for these collections carefully before starting your data submission!

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The file layouts for both the planned and actual measures collections are very similar, with the actual measures layout document being slightly more comprehensive. The biggest thing to note about these file layouts is that each indicator, subindicator, category, and metric are mapped in our system to a numeric code. So, if your district or BOCES is planning to complete this submission through a file upload, you will need to do so using the numeric codes, not the measure names, and you will need this file layout document to cross reference measure names to numeric codes.

Selection of Measures Collections
Indicator Measure Valid Combinations Sheet

<http://www.cde.state.co.us/datapipeline/aec-indicators-valid-combinations>

AEC_Indicator	AEC_Indicator_Name	AEC_Subindicator	AEC_Subindicator_Name	AEC_Category	AEC_Category_Name	AEC_Metric	AEC_Metric_Type
1	Academic Achievement	300	ACCUPLACER Diagnostic	1010	EARLY ALGEBRA	1	Percentage
1	Academic Achievement	300	ACCUPLACER Diagnostic	1000	REVERSE SKILLS	1	Percentage
1	Academic Achievement	300	ACCUPLACER Diagnostic	1210	READING COMPREHENSION	1	Percentage
1	Academic Achievement	110	Achieving Annual EP Goals	9000	Achieving Annual EP Goals	1	Percentage
1	Academic Achievement	130	ACT for 9th and 10th Graders	1170	MATH	1	Percentage
1	Academic Achievement	130	ACT for 9th and 10th Graders	1000	READING	1	Percentage
1	Academic Achievement	200	GALEED	1170	MATH	1	Percentage
1	Academic Achievement	200	GALEED	1000	READING	1	Percentage
1	Academic Achievement	240	Hamilton District Assessments	1000	READING	1	Percentage
1	Academic Achievement	260	WASA MAP Achievement	1010	LANGUAGE USAGE	1	Percentage
1	Academic Achievement	260	WASA MAP Achievement	1170	MATH	1	Percentage
1	Academic Achievement	260	WASA MAP Achievement	1000	READING	1	Percentage
1	Academic Achievement	260	WASA MAP Achievement	1000	GENERAL SCIENCE	1	Percentage
1	Academic Achievement	260	WASA MAP Achievement	1000	CTE	1	Percentage
1	Academic Achievement	300	Reading Plan	1010	READING FLUENCY	1	Percentage
1	Academic Achievement	330	Real Rocks Credit Completion Rate	1000	Credit Completion	1	Percentage
1	Academic Achievement	350	SEANTRON	1170	MATH	1	Percentage
1	Academic Achievement	360	UGANTRON	1000	READING	1	Percentage
1	Academic Achievement	371	STAR ENTERPRISE	1170	MATH	1	Percentage
1	Academic Achievement	371	STAR ENTERPRISE	1000	READING	1	Percentage
1	Academic Achievement	371	STAR - Reverse Rate	1170	MATH	2	Percentile Rank
1	Academic Achievement	371	STAR - Reverse Rate	1000	READING	2	Percentile Rank
1	Academic Achievement	380	TABE	1000	LANGUAGE ARTS	1	Percentage
1	Academic Achievement	380	TABE	1170	MATH	1	Percentage
1	Academic Achievement	390	TABE	1000	READING	1	Percentage
1	Academic Achievement	999	New Subindicator	9999	New Category	1	Percentage
1	Academic Achievement	999	New Subindicator	9999	New Category	2	Percentile Rank
1	Academic Achievement	999	New Subindicator	9999	New Category	6	Mean Score
2	Academic Growth	300	ACCUPLACER Diagnostic	1110	EARLY ALGEBRA	1	Percentage
2	Academic Growth	300	ACCUPLACER Diagnostic	1010	REVERSE SKILLS	1	Percentage
2	Academic Growth	300	ACCUPLACER Diagnostic	1210	READING COMPREHENSION	1	Percentage
2	Academic Growth	130	ACT for ACT Growth	1170	MATH	1	Percentage

Only measures with these valid combinations are accepted. Any other combinations will result in an error flag.

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In addition to being familiar with the file layout and definitions document, you will want to look at the valid combinations sheet. If you are completing these collections using the file download/upload method, you should be aware that entering a measure without a specific valid combination that is listed in this sheet will result in an error flag.

Selection of Measures Collection <i>Fields To Complete</i>			
Collections	Field	Code or Data?	Null Values Permitted?
Planned and Actual	AEC Indicator	Code	No
Planned and Actual	AEC Subindicator	Code	No
Planned and Actual	AEC Subindicator Category	Code	No
Planned and Actual	AEC Subindicator Category Metric	Code	No
Actual only	AEC Students Meeting Subindicator	Data	Yes, if metric is <i>not percentage or growth score</i>
Actual only	AEC Total Students for Subindicator	Data	No
Actual only	AEC Final Subindicator Value	Data	No

This table outlines what fields in the Selection of Measures Collections which you will need to complete, and how they will need to be completed. The first four fields need to be completed for both the planned measures and actual measure collections. Each of these fields use the numeric codes outlined in the reference documents we just went over, but if you're using the add or edit record screens you will be able to choose names from dropdown menus. No null values are permitted for these fields. The last three fields require you to enter data points for your measures. These fields have embedded logic based on the relationships between the fields and what kind of metric is chosen. We'll go over that now.

Renewal/Application Collection <i>Actual Measures Data Logic</i>	
Error Logic	Reason
If AEC Indicator is Academic Achievement, Postsecondary and Workforce Readiness, or Student Engagement, then AEC Total Students for Subindicator cannot be less than 16	N of 16 is minimum for these indicators
If AEC Indicator is Academic Growth, then AEC Total Students for Subindicator cannot be less than 20	N of 20 is minimum for this indicator
If AEC Subindicator Category Metric is Percentage or Growth Score, then the AEC Final Subindicator Value cannot be greater than 1	Rate-based metrics must be entered as a decimal (ex: .50)
If AEC Subindicator Category Metric is Percentage or Growth Score, then AEC Student Meeting Subindicator cannot be null	Rate-based metrics must include both denominator and numerator
If AEC Subindicator Category Metric is MGP or Percentile Rank, then AEC Final Subindicator Value must be between 1 and 99	MGP and Percentile Rank valid values are only between 1 and 99
If AEC Students Meeting Subindicator is not null, then this value cannot be greater than AEC Total Students for Subindicator	Likely an error, cannot have more students in numerator than denominator

Your actual measures collection data will be flagged with errors if any of the logic rules on this slide are broken. This slide shows the logic rule on the left, and the reasoning behind that logic rule on the right. Please feel free to reach out to me, B Sanders, if you have any questions about these logic rules.

Slide 18



Before we close out this module, I wanted to let you know where to find some helpful resources related to the AEC Pipeline Collections. I also wanted to let you know who to contact if you have questions.

Resources

- AEC Collections Information Page
<http://www.cde.state.co.us/datapipeline/per-aec>
- AEC Accountability Resource Page
<https://www.cde.state.co.us/Accountability/StateAccountabilityAECs>
- AEC Collections Office Hours sign up
 - Office Hours run every Tuesday afternoon from 1pm to 3pm from 1/23/2018 to 8/14/2018<http://www.signupgenius.com/go/5080c4ca5af2eabf94-aeccollections>

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General information about the AEC Pipeline Collections, and about AEC accountability in general, can be found at the top two links on this slide. The bottom link will take you to a sign-up page where you can sign up for weekly office hour slots with me, B Sanders, to get specific questions answered about AEC Collections and AEC Accountability.

Contacts

AEC Collection Questions

- B Sanders, AEC and Accountability Senior Consultant
 - Sanders_b@cde.state.co.us
 - 303.866.2685
- Jessica Watson, Accountability and Policy Principal Consultant
 - Watson_J@cde.state.co.us
 - 303.866.6778

Identity Management Questions

- Rich Morris, Systems Administrator
 - Morris_r@cde.state.co.us
 - 303.866.6713

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If you have questions about the AEC Collections, reach out to me, B Sanders, or my colleague, Jessica Watson. We can probably answer your question, and if we can't, we'll get you in contact with someone who can. If you have questions about Syncplicity, such as how to access your folder or how to log in to that system, please reach out to Corey Kispert.

Slide 21



Thank you for checking out this AEC Collections video module! I hope it was helpful. If you're looking for more information about the AEC Pipeline Collections, check out the AEC Pipeline Collections website.