# SMOKE Test Case



## Very Brief Instructions

1. Import SMOKE Case
2. Update SMOKE Case
3. Run SMOKE Case

## Import SMOKE Case

1. Download the SMOKE test case (SMOKE_test_case.tar.gz) from the EPA's ftp site:

   ```
   FTP address: scienceftp.epa.gov

   login: emfbeta

   password: 4aXqKhhu
   ```

2. Extract file:

   ```
   $ tar xvfz SMOKE_test_case.tar.gz
   ```

3. Import the Case files into the EMF.
4. Once the case is imported, you should see a new case named "2005ak Beta Test" under the Case category "Demo". The Case should have:
   - 54 Jobs
   - 282 Inputs (Note: To see all the inputs, you will need to select "All" from the **Sector** pull-down and select the **Show All** checkbox)
   - 174 Parameters (Note: To see all the inputs, you will need to select "All" from the **Sector** pull-down and select the **Show All** checkbox)
   - 2 Regions (on the **Summary** tab):
     - Continental US 36km (36US1)
     - Eastern US 12km (12EUS1)

## Update SMOKE Case

### Case

Under the current EMF import process, the Case's Base Year is not set. You will need to set the value of the **Base Year** field to "2005".

### Jobs

While there are 54 Jobs defined in the Case, not all the Jobs have the requisite Inputs to run completely. Once the Case is configured for your system, the following 9 jobs should run:

- Annual ag 36US1
- Annual alm_no_c3 36US1
- Annual afdust 36US1
- Annual ptfire onetime steps 36US1
- Annual ptnonipm onetime steps 36US1
- Annual ptnonipm Q1 36US1

- Daily ptfire Q1 36US1
- Sector merge Jan-Jun 36US1
- Annual afdust 12EUS1

As with the previous test Cases, you will need to update the following fields to match your system. (Hint: Select *All* the Jobs and use the **Modify** button to modify all the Jobs at once):

- Host
- Queue Options

In addition to the individual Jobs, you will need to modify the value of the **Output Job Scripts Folder** to match your system. For example:

`/data4/smoke_emf/subsys26/smoke26/scripts/cases/$CASE`

## Inputs

For each of the 9 Jobs that are configured to run properly with this test Case, it is necessary to have all the Inputs defined for the Job's Sector, as well as all the Inputs for "All Sectors". If the names of the Datasets were named properly prior to the import of the Case, the "linking" *should* be performed automatically. Below is a list of all the Inputs that will be needed to run the Jobs.

| Input | Dataset | Sector |
|---|---|---|
| Inventory afdust CAP | afdust_2002ad_xportfrac | afdust |
| Report configuration, ag inventory | repconfig_ag_inv | ag |
| Inventory ag CAP | ag_cap2002nei | ag |
| surrogate ratios USA 12km | USA 12km surrogates | All sectors |
| surrogate ratios MEX 36km | MEX 36km surrogates | All sectors |
| surrogate ratios USA 36km | USA 36km surrogates | All sectors |
| surrogate ratios MEX 12km | MEX 12km surrogates | All sectors |
| surrogate ratios CAN 12km | CAN 12km surrogates | All sectors |
| surrogate ratios CAN 36km | CAN 36km surrogates | All sectors |
| Grid Description List | griddesc_lambertonly | All sectors |
| Country, State, County Information | costcy_for_2002 | All sectors |
| Inventory Table - HAPCAP integration but no toxics | invtable_hapcapintegate_cb05soa_nomp | All sectors |
| emf job header | emf_jobheader_generic | All sectors |
| surrogate descriptions (works for all grids) | srgdesc_36km_revised | All sectors |
| nonpoint & nonroad surrogate xref | amgref_us_can_allmex3 | All sectors |
| GSPRO speciated MOVES PM | gspro_speciated_pm | All sectors |
| GSREF speciated PM | gsref_speciated_pm | All sectors |
| Report configuration, nonpoint default gridded | repconfig_area_invgrid_caphap | All sectors |
| Report configuration, nonpoint default inventory | repconfig_area_inv_caphap | All sectors |
| Report configuration, nonpoint default VOCprof | repconfig_area_inv2 | All sectors |
| Elevation Configuration File for Point Sources | pelvconfig_inline_allpts | All sectors |
| Temporal xref, point default | amptref_v3_3 | All sectors |

| | | |
|---|---|---|
| Smkmerge representative dates files | smk_merge_dates_2005 | All sectors |
| Speciation profiles speciated VOC | gspro_speciated_voc | All sectors |
| Speciation xref HG | gsref_hg | All sectors |
| Speciation xref for Integrate-HAPs static | gsref_static_integratehap_emv4 | All sectors |
| Speciation xref for NONHAPVOC, year-specific | gsref_nonhapvoc_2005 | All sectors |
| Speciation xref for NONHAPVOC, not year-specific | gsref_nonhapvoc_general_update | All sectors |
| Speciation xref for VOC, year-specific | gsref_voc_2005 | All sectors |
| Speciation xref for VOC, not year-specific | gsref_voc_general | All sectors |
| Speciation profiles for INTEGRATE HAPS | gspro_integratehaps_cb05_tx_pf4 | All sectors |
| Speciation profiles for NOX | gspro_nox_hono_pf4 | All sectors |
| Speciation profiles for HG | gspro_hg | All sectors |
| List of sectors for mrggrid | sectorlist_2005ak_test | All sectors |
| Speciation profiles for NONHAPTOG | gspro_nonhaptog_cb05_tx_pf4_pretier2 | All sectors |
| Speciation xref for PM2.5 diesel SCCs but do not produce diesel | gsref_no_dieselpm | All sectors |
| Speciation xref for PM2.5 non-diesel SCCs | gsref_pm25_pf4_nondiesel | All sectors |
| Speciation xref for SO2-SULF | gsref_sulf | All sectors |
| Speciation xref static NOX -- HONO for mobile sources | gsref_static_nox_hono_pf4 | All sectors |
| Speciation xref CAP static | gsref_static_cap_pf4 | All sectors |
| Speciation profiles for TOG | gspro_tog_cb05_soa_pf4_pretier2 | All sectors |
| Speciation profiles for SO2-SULF | gspro_sulf | All sectors |
| Speciation profiles for PM2.5 | gspro_pm25 | All sectors |
| Speciation profiles static | gspro_static_cmaq | All sectors |
| NAICS descriptions | naicsdesc | All sectors |
| MACT Description | mactdesc_2002v3 | All sectors |
| Combination profiles | gspro_combo_2005 | All sectors |
| Temporal profiles, all point | amptpro_2005_us_can | All sectors |
| Temporal xref, onroad mobile default | amptref_v3_3 | All sectors |
| Temporal profiles, onroad default | amptpro_2005_us_can | All sectors |
| onroad surrogate xref default | amgref_us_can_allmex3 | All sectors |
| SIC descriptions | sic_desc | All sectors |
| Stack replacement | pstk | All sectors |
| ORIS Description | orisdesc | All sectors |
| Mobile codes file default | mcodes | All sectors |
| GSCNV - pollutant to pollutant conversions | gscnv_cmaq_cb05_tx_pf4 | All sectors |
| Holidays table | holidays | All sectors |
| Area-to-point data | artopnt_2002detroit | All sectors |
| Temporal xref, all nonpoint and nonroad | amptref_v3_3 | All sectors |
| Temporal profiles, all nonpoint and nonroad | amptpro_2005_us_can | All sectors |
| SCC descriptions | sccdesc_pf31 | All sectors |
| Report configuration, alm_no_c3 inventory | repconfig_alm_inv_caphap | alm_no_c3 |
| NHAPEXCLUDE alm_no_c3 | nhapexclude_alm_no_c3_pf4 | alm_no_c3 |

| | | |
|---|---|---|
| Inventory alm_no_c3 CAP | lm_no_c3_cap2002v3 | alm_no_c3 |
| Inventory alm_no_c3 HAP | lm_no_c3_hap2002v4 | alm_no_c3 |
| Inventory fire list | ptfire_2005ag_tox | ptfire |
| Inventory daily fires 12 Dec, CAP/HAP last day | ptfire_nov_lastdayonly_2005ag_tox_nonhapvoc | ptfire |
| Inventory daily fires 06 Jun, CAP/HAP last day | ptfire_may_lastdayonly_2005ag_tox_nonhapvoc | ptfire |
| Inventory daily fires 03 Mar, CAP/HAP last day | ptfire_feb_lastdayonly_2005ag_tox_nonhapvoc | ptfire |
| Inventory daily fires 04 Apr, CAP/HAP last day | ptfire_mar_lastdayonly_2005ag_tox_nonhapvoc | ptfire |
| Inventory daily fires 07 Jul, CAP/HAP last day | ptfire_jun_lastdayonly_2005ag_tox_nonhapvoc | ptfire |
| Inventory daily fires 05 May, CAP/HAP last day | ptfire_apr_lastdayonly_2005ag_tox_nonhapvoc_txt | ptfire |
| Inventory daily fires 08 Aug, CAP/HAP last day | ptfire_jul_lastdayonly_2005ag_tox_nonhapvoc | ptfire |
| Inventory daily fires 09 Sep, CAP/HAP last day | ptfire_aug_lastdayonly_2005ag_tox_nonhapvoc | ptfire |
| Inventory daily fires 10 Oct, CAP/HAP last day | ptfire_sep_lastdayonly_2005ag_tox_nonhapvoc | ptfire |
| Inventory daily fires 11 Nov, CAP/HAP last day | ptfire_oct_lastdayonly_2005ag_tox_nonhapvoc | ptfire |
| Inventory daily fires 02 Feb, CAP/HAP last day | ptfire_jan_lastdayonly_2005ag_tox_nonhapvoc | ptfire |
| Inventory daily fires 12 Dec, CAP/HAP | ptfire_dec_2005ag_tox_nonhapvoc | ptfire |
| Inventory daily fires 11 Nov, CAP/HAP | ptfire_nov_2005ag_tox_nonhapvoc | ptfire |
| Inventory daily fires 10 Oct, CAP/HAP | ptfire_oct_2005ag_tox_nonhapvoc | ptfire |
| Inventory daily fires 09 Sep, CAP/HAP | ptfire_sep_2005ag_tox_nonhapvoc | ptfire |
| Inventory daily fires 08 Aug, CAP/HAP | ptfire_aug_2005ag_tox_nonhapvoc | ptfire |
| Inventory daily fires 07 Jul, CAP/HAP | ptfire_jul_2005ag_tox__nonhapvoc | ptfire |
| Inventory daily fires 06 Jun, CAP/HAP | ptfire_jun_2005ag_tox_nonhapvoc | ptfire |
| Inventory daily fires 05 May, CAP/HAP | ptfire_may_2005ag_tox_nonhapvoc | ptfire |
| Inventory daily fires 04 Apr, CAP/HAP | ptfire_apr_2005ag_tox_nonhapvoc | ptfire |
| Inventory daily fires 03 Mar, CAP/HAP | ptfire_mar_2005ag_tox_nonhapvoc | ptfire |
| Inventory daily fires 02 Feb, CAP/HAP | ptfire_feb_2005ag_tox_nonhapvoc | ptfire |
| Inventory daily fires 01 Jan, last day CAP/HAP | ptfire_dec_lastdayonly_2005ag_tox_nonhapvoc | ptfire |
| Inventory daily fires 01 jan, CAP/HAP | ptfire_jan_2005ag_tox_nonhapvoc | ptfire |
| Inventory Table - noHAPuse sectors, no toxics | invtable_hapcapnohapuse_cb05soa_nomp | ptnonipm |
| Report configuration, ptnonipm gridded | repconfig_point_invgrid_caphap | ptnonipm |
| Report configuration, ptnonipm inventory | repconfig_point_inv_caphap | ptnonipm |
| Report configuration, ptnonipm VOCprof | repconfig_point_inv2 | ptnonipm |
| Inventory ptnonipm CAP | ptnonipm_xportfrac_cap2005v2 | ptnonipm |
| Inventory ptnonipm HAP | ptnonipm_hap2005v2 | ptnonipm |

If any of the above Inputs do not have a dataset in the imported Case, you should manually match the dataset to the Input by editing the specific Input. This mismatch is likely due to a slight inconsistency in the names. The sectors that you are not running will have missing Inputs.

In addition to the individual Inputs, you will need to modify the value of the **Input Folder** field to match your system. For example:

`/data4/smoke_data/inputs/$CASE`

### Parameters

Some of the parameters will need to be modified to match your system:

- SMK_HOME: Should point to the location of the `smoke_emf` directory referred to in the "Setup SMOKE_EMF Directories" section of the SMOKE Test Cast Part 1 document. For example:

  `/data4/smoke_emf`

- IMD_ROOT: Should point to the location of SMOKE's `intermed` directory. For example:

  `/data4/smoke_data/intermed`

- DAT_ROOT: Should point to the location of the `smoke_data`. For example:

  `/data4/smoke_data`

- OUT_ROOT: Should point to the location of the SMOKE's `output` directory. For example:

  `/data4/smoke_data/output`

- SRGPRO_PATH (multiple): Should point to the location of your spatial surrogates (and should match the path to the sources for your surrogate Inputs). For example:

  `/data4/smoke_data/inputs/ge_dat/36km_surg/`

  Note: The trailing slash is required!

- EMF_QUEUE_OPTIONS: Modify this parameter as in the previous test Case. As a reminder: If you are using a real process queue, select the parameter and click **Edit**. If you are using the fake queue, the value of the 'EMF queue options' does not matter because it should not be used by your Jobs.

## Run SMOKE Case

### Jobs

We recommend running the 9 Jobs in the following order:

- Annual ag 36US1
- Annual alm_no_c3 36US1
- Annual afdust 36US1
- Annual ptfire onetime steps 36US1
- Daily ptfire Q1 36US1
- Annual ptnonipm onetime steps 36US1
- Annual ptnonipm Q1 36US1
- Sector merge Jan-Jun 36US1
- Annual afdust 12EUS1

Some of the reasoning behind this is:

- The “Annual ag 36US1” Job is relatively simple and fast to run
- The “Annual afdust 36US1” Job simulates a full year, unlike the other Jobs that simulate one month
- The “Daily ptfire Q1 36US1” Job depends on the “Annual ptfire onetime steps 36US1” Job
- The “Annual ptnonipm Q1 36US1” Job depends on the “Annual ptnonipm onetime steps 36US1” Job
- The “Sector merge Jan-Jun 36US1” Job depends on *all* the 36km Jobs
- The “Annual afdust 12EUS1” Job depends on the “Annual afdust 36US1” Job

In actuality, the following 5 Jobs can be run in parallel (simultaneously) if you choose and your system can handle the load:

- Annual ag 36US1
- Annual alm_no_c3 36US1
- Annual afdust 36US1
- Annual ptfire onetime steps 36US1
- Annual ptnonipm onetime steps 36US1

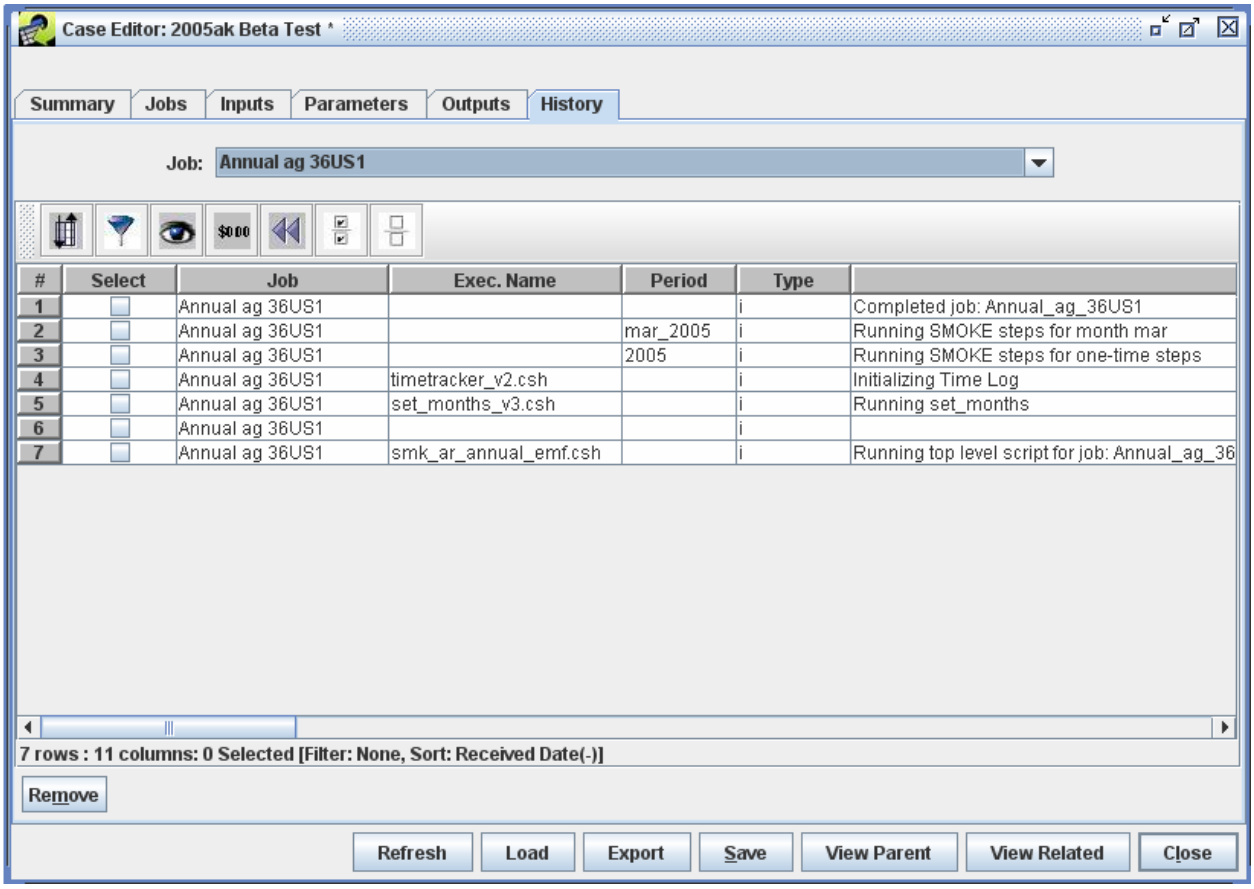
## Important Note

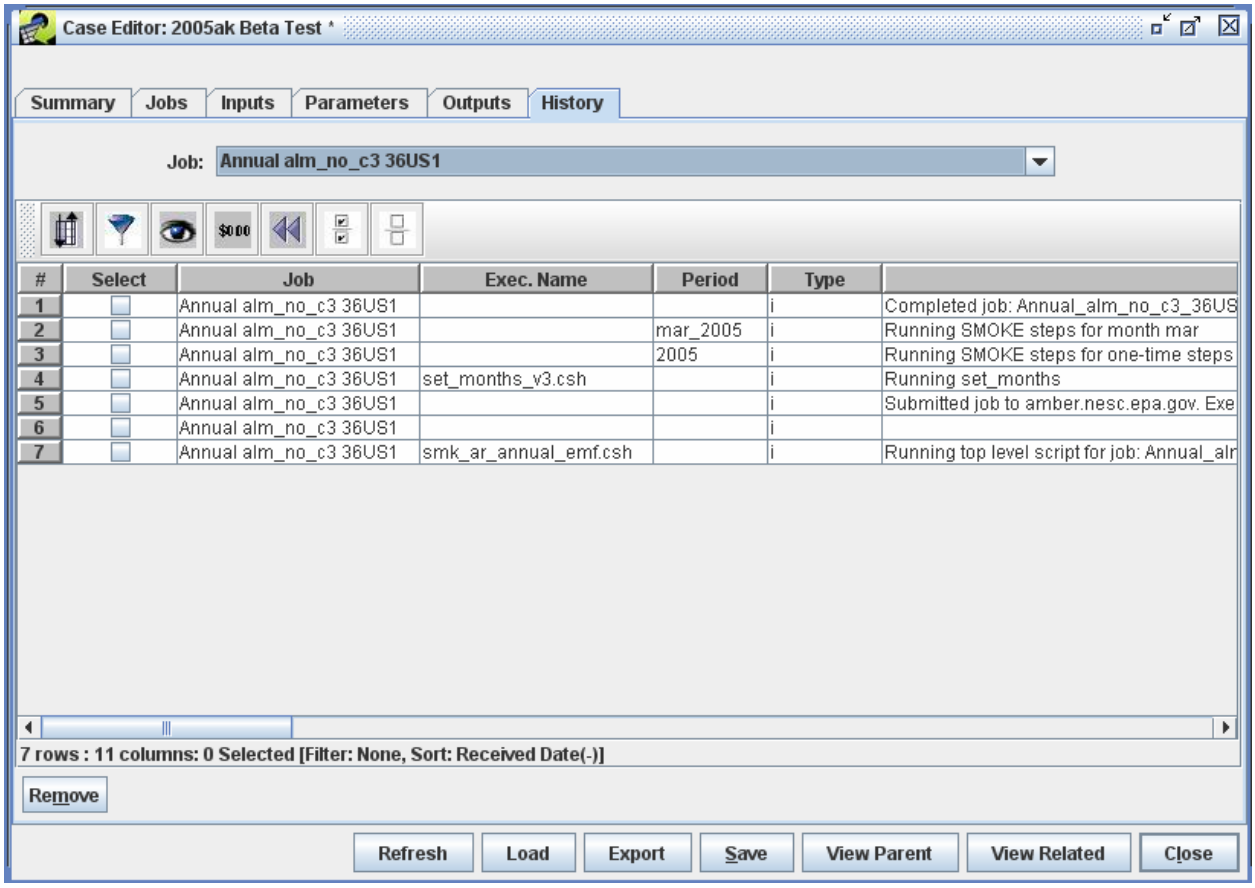
After running the first Job (e.g.,” Annual ag 36US1”), the EMF will have created the Job folder (e.g., `/data4/smoke_emf/subsys26/smoke26/scripts/cases/2005ak_test).` Before running any of other jobs (especially the point Sector Jobs), copy the `run_settings_2005ak_test.txt` file contained in the new `additional_datasets.tar.gz` file into the Job folder.

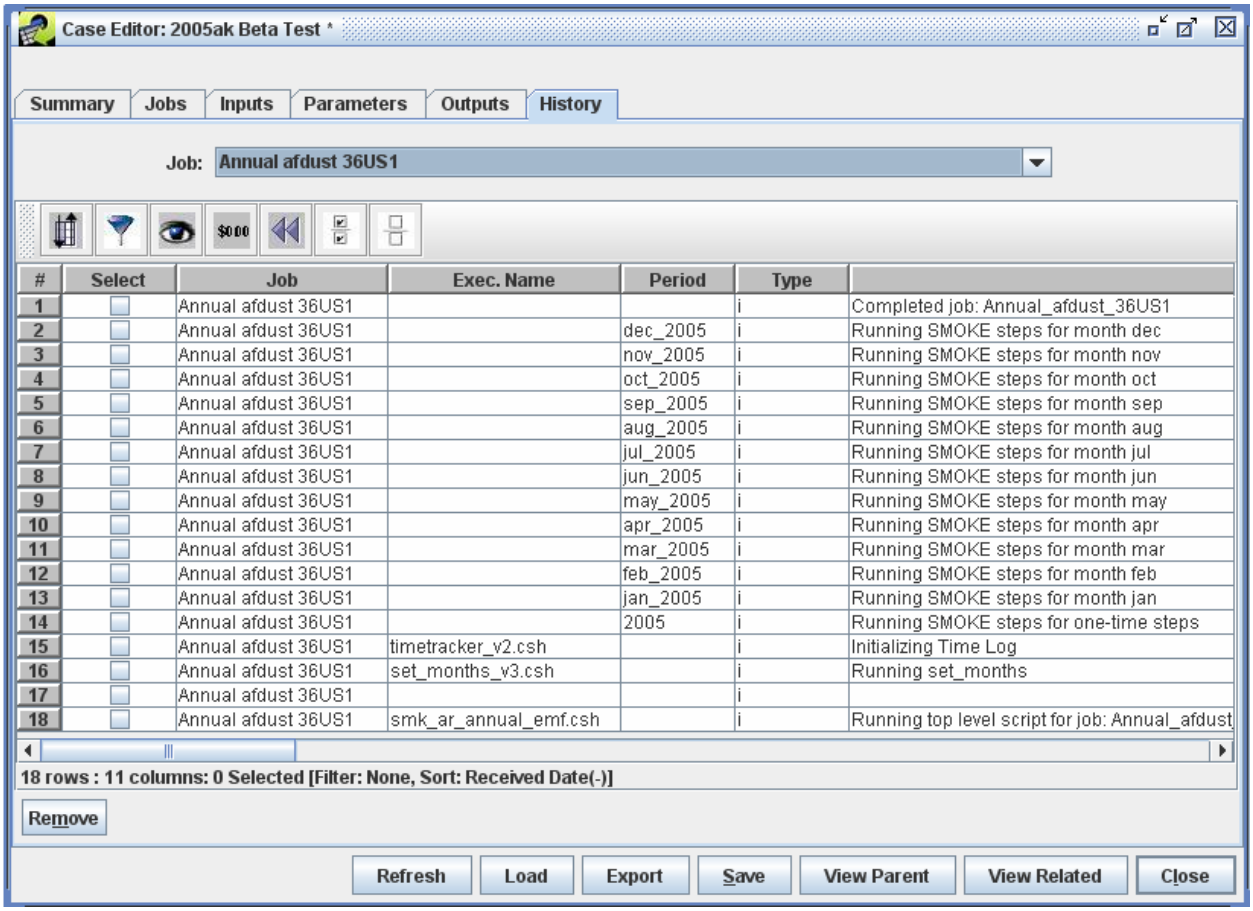
This file controls which parts of SMOKE are *not* run for a specific Sector and grid. For example, this file turns off Smkinven for all 12EUS1 Jobs.

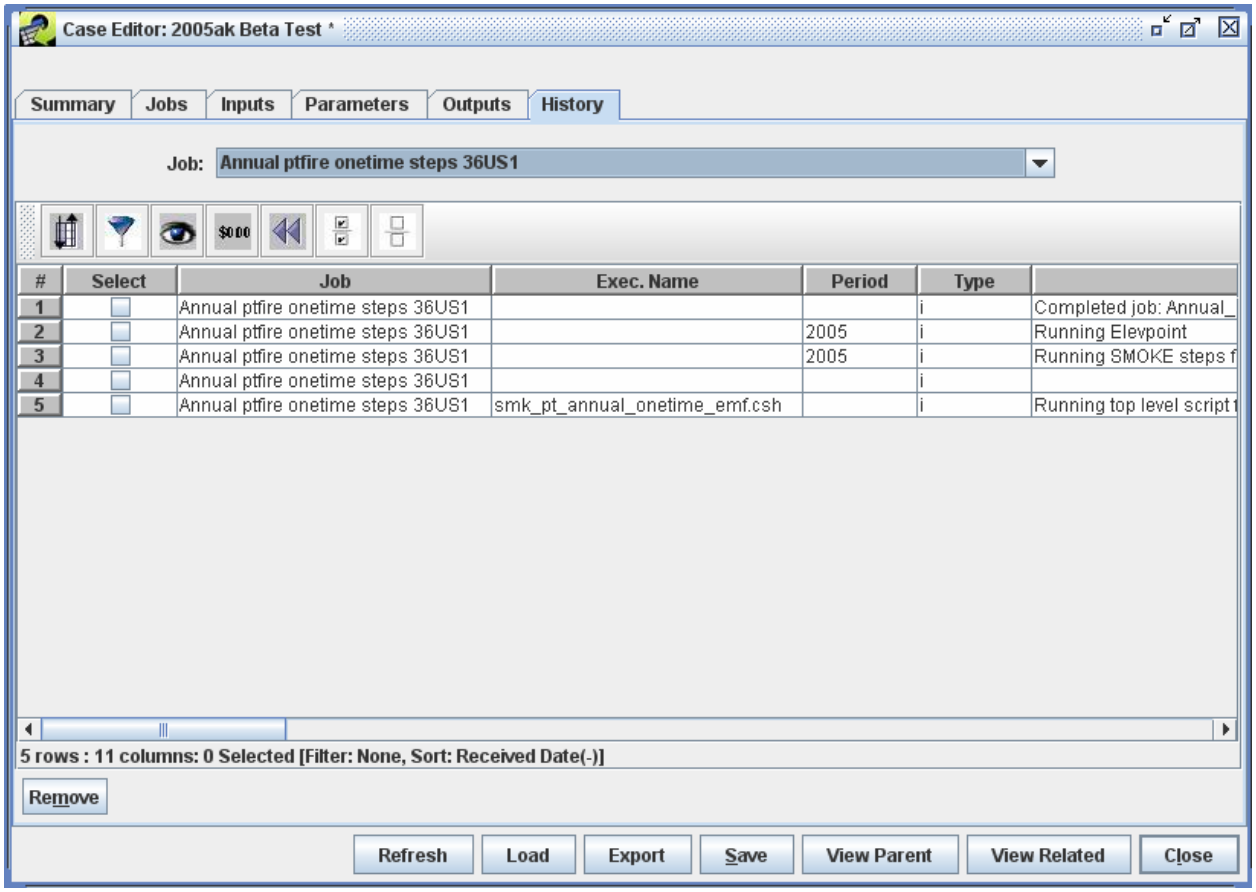
## History

Below are screenshots of the expected messages from each o f the 9 Jobs:




Case Editor: 2005ak Beta Test *
Summary
Jobs
Inputs
Parameters
Outputs
History
Job:
Annual alm_no_c3 36US1
$0.00
# | Select | Job | Exec. Name | Period | Type
1 | Annual alm_no_c3 36US1 | | | i | Completed job: Annual_alm_no_c3_36US
2 | Annual alm_no_c3 36US1 | | mar_2005 | i | Running SMOKE steps for month mar
3 | Annual alm_no_c3 36US1 | | 2005 | i | Running SMOKE steps for one-time steps
4 | Annual alm_no_c3 36US1 | set_months_v3.csh | | i | Running set_months
5 | Annual alm_no_c3 36US1 | | | i | Submitted job to amber.nesc.epa.gov. Exe
6 | Annual alm_no_c3 36US1 | | | i |
7 | Annual alm_no_c3 36US1 | smk_ar_annual_emf.csh | | i | Running top level script for job: Annual_alr
7 rows : 11 columns: 0 Selected [Filter: None, Sort: Received Date(-)]
Remove
Refresh
Load
Export
Save
View Parent
View Related
Close


Case Editor: 2005ak Beta Test *
Summary
Jobs
Inputs
Parameters
Outputs
History
Job:
Annual afdust 36US1
$000
# | Select | Job | Exec. Name | Period | Type
1 | Annual afdust 36US1 | | | i | Completed job: Annual_afdust_36US1
2 | Annual afdust 36US1 | | dec_2005 | i | Running SMOKE steps for month dec
3 | Annual afdust 36US1 | | nov_2005 | i | Running SMOKE steps for month nov
4 | Annual afdust 36US1 | | oct_2005 | i | Running SMOKE steps for month oct
5 | Annual afdust 36US1 | | sep_2005 | i | Running SMOKE steps for month sep
6 | Annual afdust 36US1 | | aug_2005 | i | Running SMOKE steps for month aug
7 | Annual afdust 36US1 | | jul_2005 | i | Running SMOKE steps for month jul
8 | Annual afdust 36US1 | | jun_2005 | i | Running SMOKE steps for month jun
9 | Annual afdust 36US1 | | may_2005 | i | Running SMOKE steps for month may
10 | Annual afdust 36US1 | | apr_2005 | i | Running SMOKE steps for month apr
11 | Annual afdust 36US1 | | mar_2005 | i | Running SMOKE steps for month mar
12 | Annual afdust 36US1 | | feb_2005 | i | Running SMOKE steps for month feb
13 | Annual afdust 36US1 | | jan_2005 | i | Running SMOKE steps for month jan
14 | Annual afdust 36US1 | | 2005 | i | Running SMOKE steps for one-time steps
15 | Annual afdust 36US1 | timetracker_v2.csh | | i | Initializing Time Log
16 | Annual afdust 36US1 | set_months_v3.csh | | i | Running set_months
17 | Annual afdust 36US1 | | | i |
18 | Annual afdust 36US1 | smk_ar_annual_emf.csh | | i | Running top level script for job: Annual_afdust
18 rows : 11 columns: 0 Selected [Filter: None, Sort: Received Date(-)]
Remove
Refresh
Load
Export
Save
View Parent
View Related
Close


Case Editor: 2005ak Beta Test *
Summary
Jobs
Inputs
Parameters
Outputs
History
Job:
Annual ptfire onetime steps 36US1
$000
# | Select | Job | Exec. Name | Period | Type
1 | Annual ptfire onetime steps 36US1 | | | i | Completed job: Annual_
2 | Annual ptfire onetime steps 36US1 | | 2005 | i | Running Elevpoint
3 | Annual ptfire onetime steps 36US1 | | 2005 | i | Running SMOKE steps f
4 | Annual ptfire onetime steps 36US1 | | | i |
5 | Annual ptfire onetime steps 36US1 | smk_pt_annual_onetime_emf.csh | | i | Running top level script t
5 rows : 11 columns: 0 Selected [Filter: None, Sort: Received Date(-)]
Remove
Refresh
Load
Export
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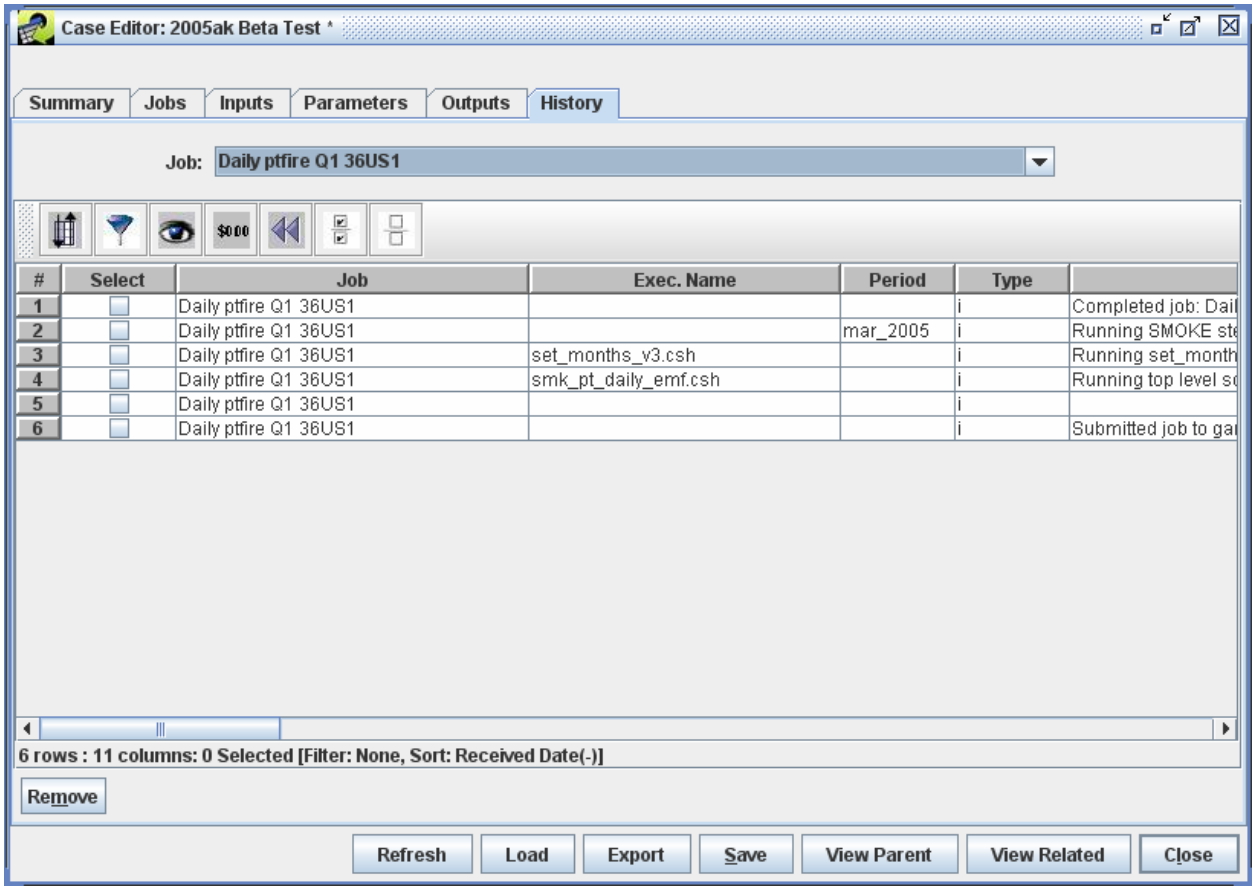
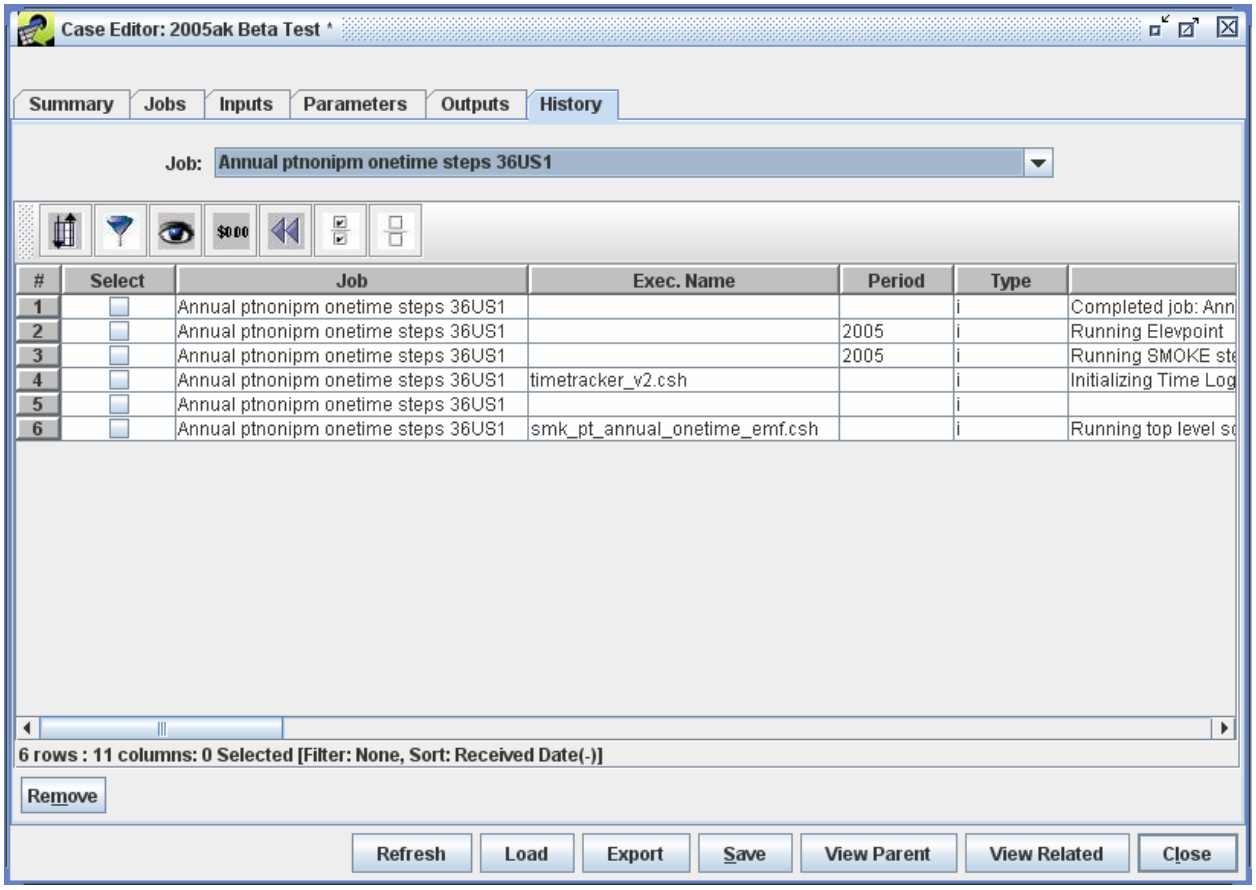
View Parent
View Related
Close


Case Editor: 2005ak Beta Test *
Summary
Jobs
Inputs
Parameters
Outputs
History
Job:
Daily ptfire Q1 36US1
$000
# | Select | Job | Exec. Name | Period | Type
1 | Daily ptfire Q1 36US1 | | | i | Completed job: Dail
2 | Daily ptfire Q1 36US1 | | mar_2005 | i | Running SMOKE st
3 | Daily ptfire Q1 36US1 | set_months_v3.csh | | i | Running set_month
4 | Daily ptfire Q1 36US1 | smk_pt_daily_emf.csh | | i | Running top level s
5 | Daily ptfire Q1 36US1 | | | i |
6 | Daily ptfire Q1 36US1 | | | i | Submitted job to ga
6 rows : 11 columns: 0 Selected [Filter: None, Sort: Received Date(-)]
Remove
Refresh
Load
Export
Save
View Parent
View Related
Close


Case Editor: 2005ak Beta Test *
Summary
Jobs
Inputs
Parameters
Outputs
History
Job:
Annual ptnonipm onetime steps 36US1
$000
# | Select | Job | Exec. Name | Period | Type
1 | Annual ptnonipm onetime steps 36US1 | | | i | Completed job: Ann
2 | Annual ptnonipm onetime steps 36US1 | | 2005 | i | Running Elevpoint
3 | Annual ptnonipm onetime steps 36US1 | | 2005 | i | Running SMOKE st
4 | Annual ptnonipm onetime steps 36US1 | timetracker_v2.csh | | i | Initializing Time Log
5 | Annual ptnonipm onetime steps 36US1 | | | i |
6 | Annual ptnonipm onetime steps 36US1 | smk_pt_annual_onetime_emf.csh | | i | Running top level sc
6 rows : 11 columns: 0 Selected [Filter: None, Sort: Received Date(-)]
Remove
Refresh
Load
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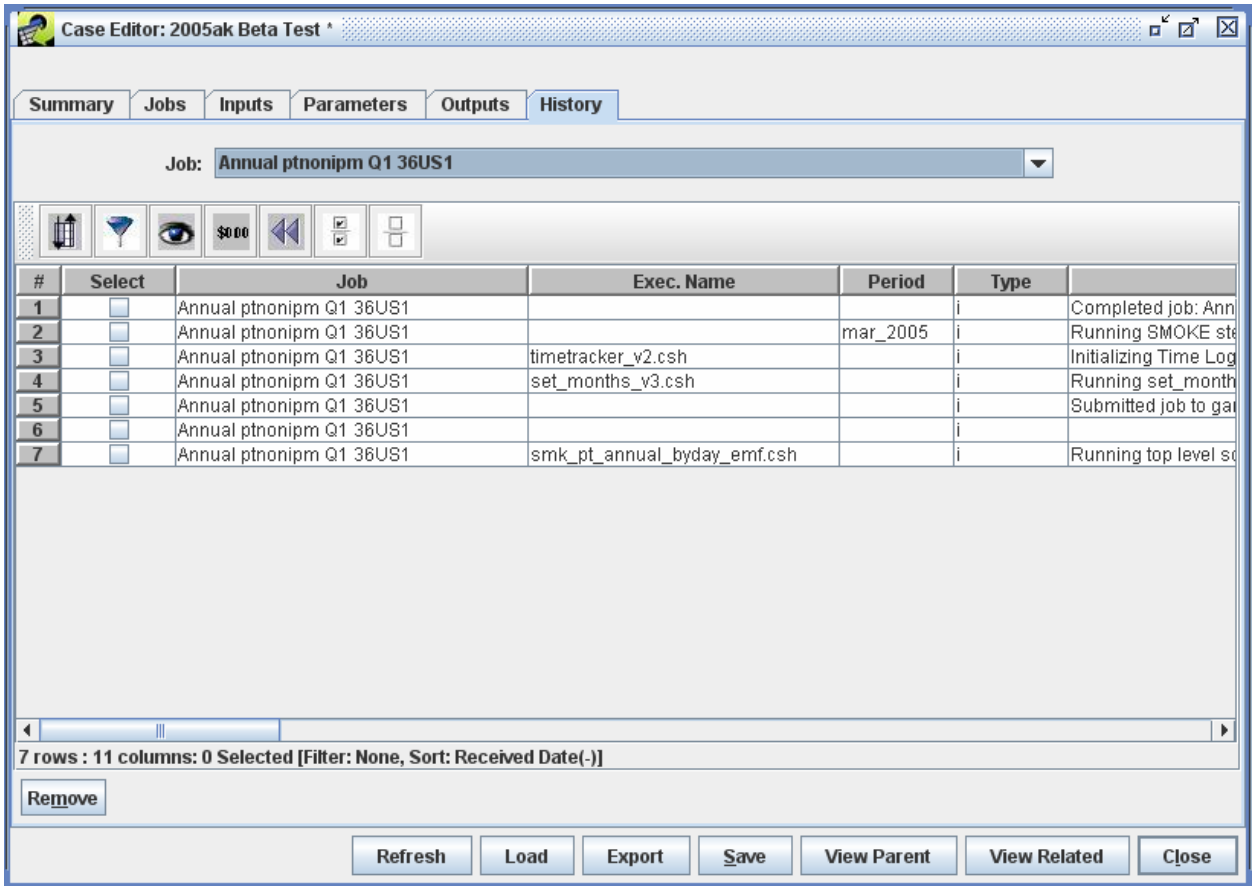
View Parent
View Related
Close


Case Editor: 2005ak Beta Test *
Summary
Jobs
Inputs
Parameters
Outputs
History
Job:
Annual ptnonipm Q1 36US1
$000
# | Select | Job | Exec. Name | Period | Type
1 | Annual ptnonipm Q1 36US1 | | | i | Completed job: Ann
2 | Annual ptnonipm Q1 36US1 | | mar_2005 | i | Running SMOKE st
3 | Annual ptnonipm Q1 36US1 | timetracker_v2.csh | | i | Initializing Time Log
4 | Annual ptnonipm Q1 36US1 | set_months_v3.csh | | i | Running set_month
5 | Annual ptnonipm Q1 36US1 | | | i | Submitted job to ga
6 | Annual ptnonipm Q1 36US1 | | | i |
7 | Annual ptnonipm Q1 36US1 | smk_pt_annual_byday_emf.csh | | i | Running top level s
7 rows : 11 columns: 0 Selected [Filter: None, Sort: Received Date(-)]
Remove
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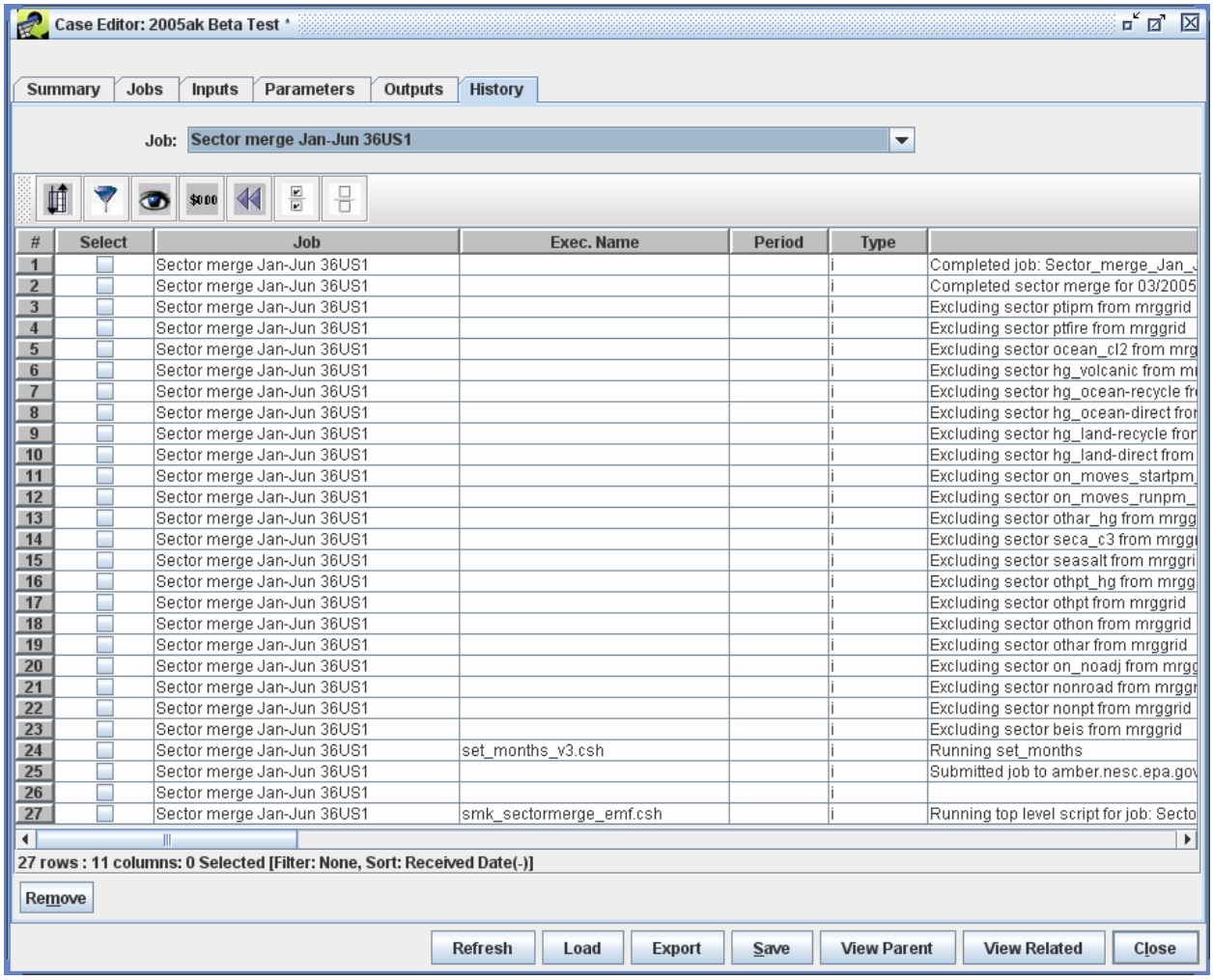
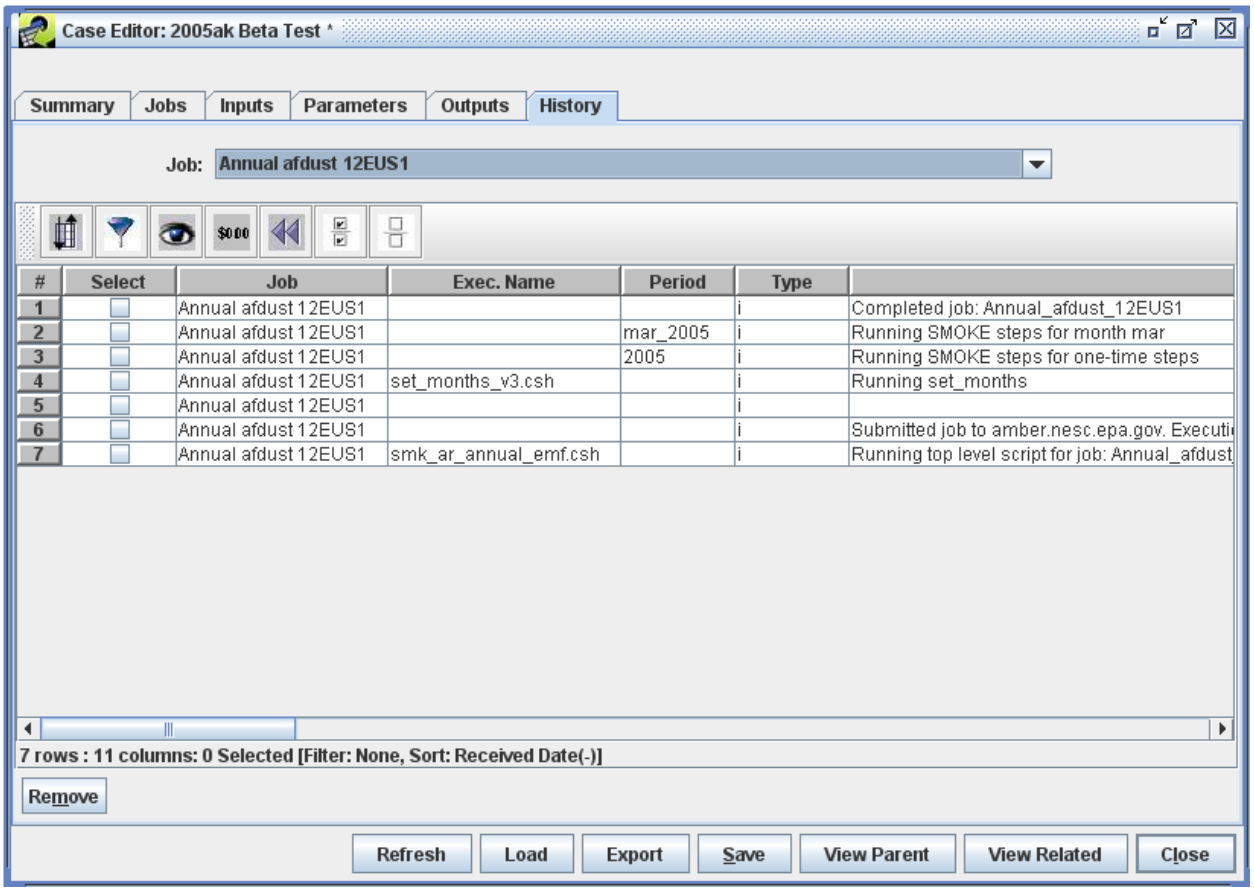
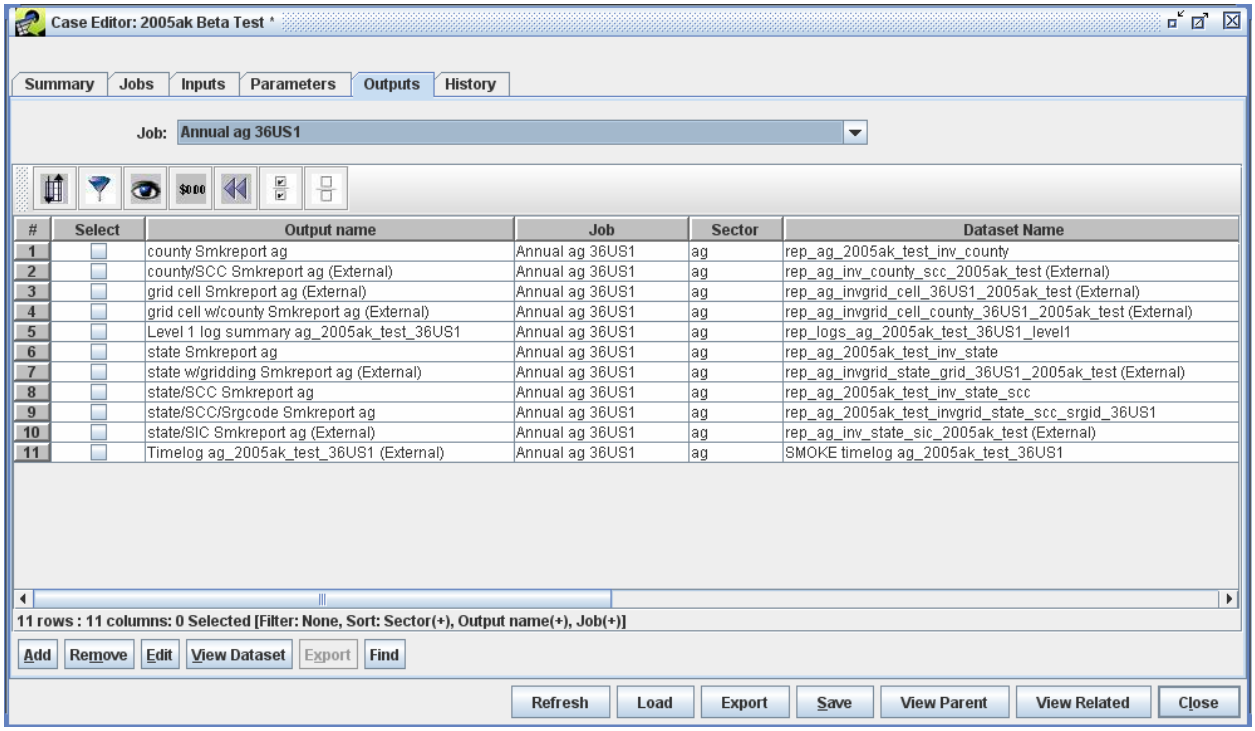
View Parent
View Related
Close

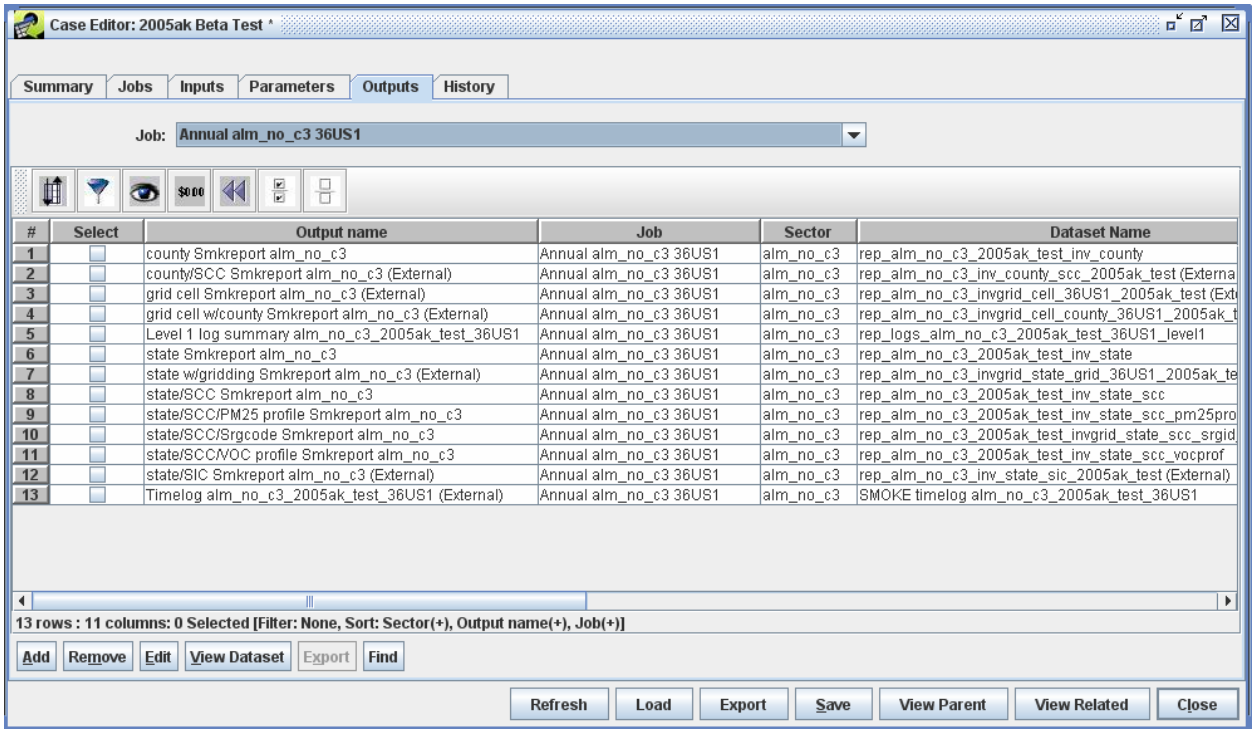

Case Editor: 2005ak Beta Test *
Summary
Jobs
Inputs
Parameters
Outputs
History
Job: Sector merge Jan-Jun 36US1
$0.00
# | Select | Job | Exec. Name | Period | Type
1 | Sector merge Jan-Jun 36US1 | | | i | Completed job: Sector_merge_Jan_
2 | Sector merge Jan-Jun 36US1 | | | i | Completed sector merge for 03/2005
3 | Sector merge Jan-Jun 36US1 | | | i | Excluding sector ptipm from mrggrid
4 | Sector merge Jan-Jun 36US1 | | | i | Excluding sector ptfire from mrggrid
5 | Sector merge Jan-Jun 36US1 | | | i | Excluding sector ocean_cl2 from mrg
6 | Sector merge Jan-Jun 36US1 | | | i | Excluding sector hg_volcanic from m
7 | Sector merge Jan-Jun 36US1 | | | i | Excluding sector hg_ocean-recycle fr
8 | Sector merge Jan-Jun 36US1 | | | i | Excluding sector hg_ocean-direct fro
9 | Sector merge Jan-Jun 36US1 | | | i | Excluding sector hg_land-recycle fro
10 | Sector merge Jan-Jun 36US1 | | | i | Excluding sector hg_land-direct from
11 | Sector merge Jan-Jun 36US1 | | | i | Excluding sector on_moves_startpm_
12 | Sector merge Jan-Jun 36US1 | | | i | Excluding sector on_moves_runpm_
13 | Sector merge Jan-Jun 36US1 | | | i | Excluding sector othar_hg from mrgg
14 | Sector merge Jan-Jun 36US1 | | | i | Excluding sector seca_c3 from mrggr
15 | Sector merge Jan-Jun 36US1 | | | i | Excluding sector seasalt from mrggri
16 | Sector merge Jan-Jun 36US1 | | | i | Excluding sector othpt_hg from mrgg
17 | Sector merge Jan-Jun 36US1 | | | i | Excluding sector othpt from mrggrid
18 | Sector merge Jan-Jun 36US1 | | | i | Excluding sector othon from mrggrid
19 | Sector merge Jan-Jun 36US1 | | | i | Excluding sector othar from mrggrid
20 | Sector merge Jan-Jun 36US1 | | | i | Excluding sector on_noadj from mrgg
21 | Sector merge Jan-Jun 36US1 | | | i | Excluding sector nonroad from mrggr
22 | Sector merge Jan-Jun 36US1 | | | i | Excluding sector nonpt from mrggrid
23 | Sector merge Jan-Jun 36US1 | | | i | Excluding sector beis from mrggrid
24 | Sector merge Jan-Jun 36US1 | set_months_v3.csh | | i | Running set_months
25 | Sector merge Jan-Jun 36US1 | | | i | Submitted job to amber.nesc.epa.gov
26 | Sector merge Jan-Jun 36US1 | | | i |
27 | Sector merge Jan-Jun 36US1 | smk_sectormerge_emf.csh | | i | Running top level script for job: Secto
27 rows : 11 columns: 0 Selected [Filter: None, Sort: Received Date(-)]
Remove
Refresh
Load
Export
Save
View Parent
View Related
Close

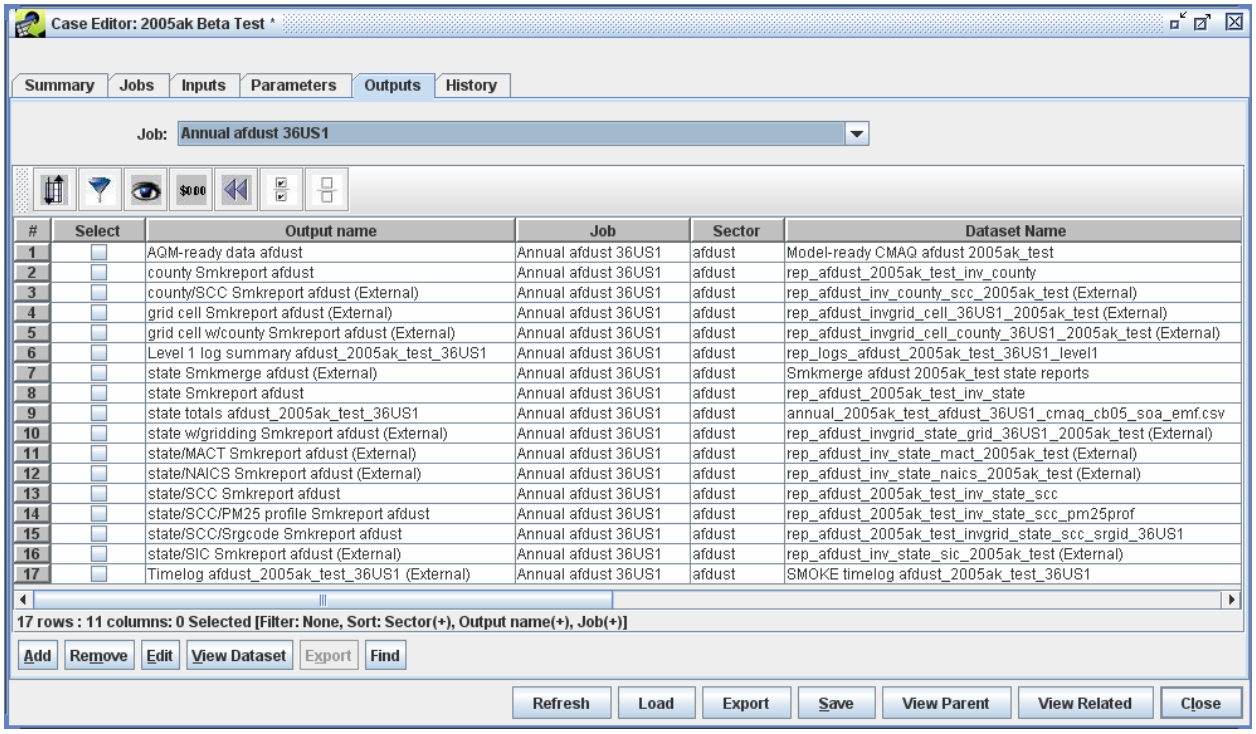

Case Editor: 2005ak Beta Test *
Summary
Jobs
Inputs
Parameters
Outputs
History
Job:
Annual afdust 12EUS1
$000
# | Select | Job | Exec. Name | Period | Type
1 | Annual afdust 12EUS1 | | | i | Completed job: Annual_afdust_12EUS1
2 | Annual afdust 12EUS1 | | mar_2005 | i | Running SMOKE steps for month mar
3 | Annual afdust 12EUS1 | | 2005 | i | Running SMOKE steps for one-time steps
4 | Annual afdust 12EUS1 | set_months_v3.csh | | i | Running set_months
5 | Annual afdust 12EUS1 | | | i |
6 | Annual afdust 12EUS1 | | | i | Submitted job to amber.nesc.epa.gov. Executi
7 | Annual afdust 12EUS1 | smk_ar_annual_emf.csh | | i | Running top level script for job: Annual_afdust
7 rows : 11 columns: 0 Selected [Filter: None, Sort: Received Date(-)]
Remove
Refresh
Load
Export
Save
View Parent
View Related
Close

## Outputs

Below are screenshots of the expected outputs from each o f the 9 Jobs:




Case Editor: 2005ak Beta Test *
Summary
Jobs
Inputs
Parameters
Outputs
History
Job: Annual afdust 36US1
$000
# | Select | Output name | Job | Sector | Dataset Name
1 | AQM-ready data afdust | Annual afdust 36US1 | afdust | Model-ready CMAQ afdust 2005ak_test
2 | county Smkreport afdust | Annual afdust 36US1 | afdust | rep_afdust_2005ak_test_inv_county
3 | county/SCC Smkreport afdust (External) | Annual afdust 36US1 | afdust | rep_afdust_inv_county_scc_2005ak_test (External)
4 | grid cell Smkreport afdust (External) | Annual afdust 36US1 | afdust | rep_afdust_invgrid_cell_36US1_2005ak_test (External)
5 | grid cell w/county Smkreport afdust (External) | Annual afdust 36US1 | afdust | rep_afdust_invgrid_cell_county_36US1_2005ak_test (External)
6 | Level 1 log summary afdust_2005ak_test_36US1 | Annual afdust 36US1 | afdust | rep_logs_afdust_2005ak_test_36US1_level1
7 | state Smkmerge afdust (External) | Annual afdust 36US1 | afdust | Smkmerge afdust 2005ak_test state reports
8 | state Smkreport afdust | Annual afdust 36US1 | afdust | rep_afdust_2005ak_test_inv_state
9 | state totals afdust_2005ak_test_36US1 | Annual afdust 36US1 | afdust | annual_2005ak_test_afdust_36US1_cmaq_cb05_soa_emf.csv
10 | state w/gridding Smkreport afdust (External) | Annual afdust 36US1 | afdust | rep_afdust_invgrid_state_grid_36US1_2005ak_test (External)
11 | state/MACT Smkreport afdust (External) | Annual afdust 36US1 | afdust | rep_afdust_inv_state_mact_2005ak_test (External)
12 | state/NAICS Smkreport afdust (External) | Annual afdust 36US1 | afdust | rep_afdust_inv_state_naics_2005ak_test (External)
13 | state/SCC Smkreport afdust | Annual afdust 36US1 | afdust | rep_afdust_2005ak_test_inv_state_scc
14 | state/SCC/PM25 profile Smkreport afdust | Annual afdust 36US1 | afdust | rep_afdust_2005ak_test_inv_state_scc_pm25prof
15 | state/SCC/Srgcode Smkreport afdust | Annual afdust 36US1 | afdust | rep_afdust_2005ak_test_invgrid_state_scc_srgid_36US1
16 | state/SIC Smkreport afdust (External) | Annual afdust 36US1 | afdust | rep_afdust_inv_state_sic_2005ak_test (External)
17 | Timelog afdust_2005ak_test_36US1 (External) | Annual afdust 36US1 | afdust | SMOKE timelog afdust_2005ak_test_36US1
17 rows : 11 columns: 0 Selected [Filter: None, Sort: Sector(+), Output name(+), Job(+)]
Add
Remove
Edit
View Dataset
Export
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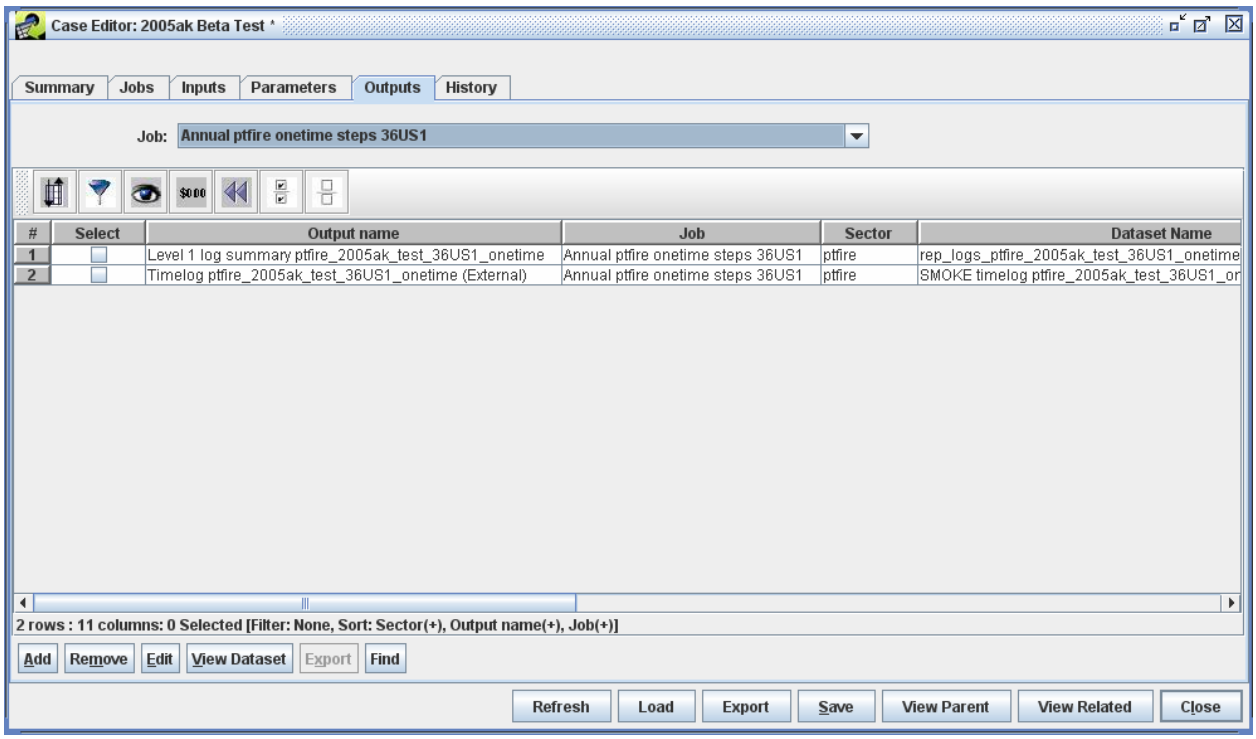
View Parent
View Related
Close


Case Editor: 2005ak Beta Test *
Summary
Jobs
Inputs
Parameters
Outputs
History
Job: Annual ptfire onetime steps 36US1
$000
# | Select | Output name | Job | Sector | Dataset Name
1 | Level 1 log summary ptfire_2005ak_test_36US1_onetime | Annual ptfire onetime steps 36US1 | ptfire | rep_logs_ptfire_2005ak_test_36US1_onetime
2 | Timelog ptfire_2005ak_test_36US1_onetime (External) | Annual ptfire onetime steps 36US1 | ptfire | SMOKE timelog ptfire_2005ak_test_36US1_or
2 rows : 11 columns: 0 Selected [Filter: None, Sort: Sector(+), Output name(+), Job(+)]
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View Dataset
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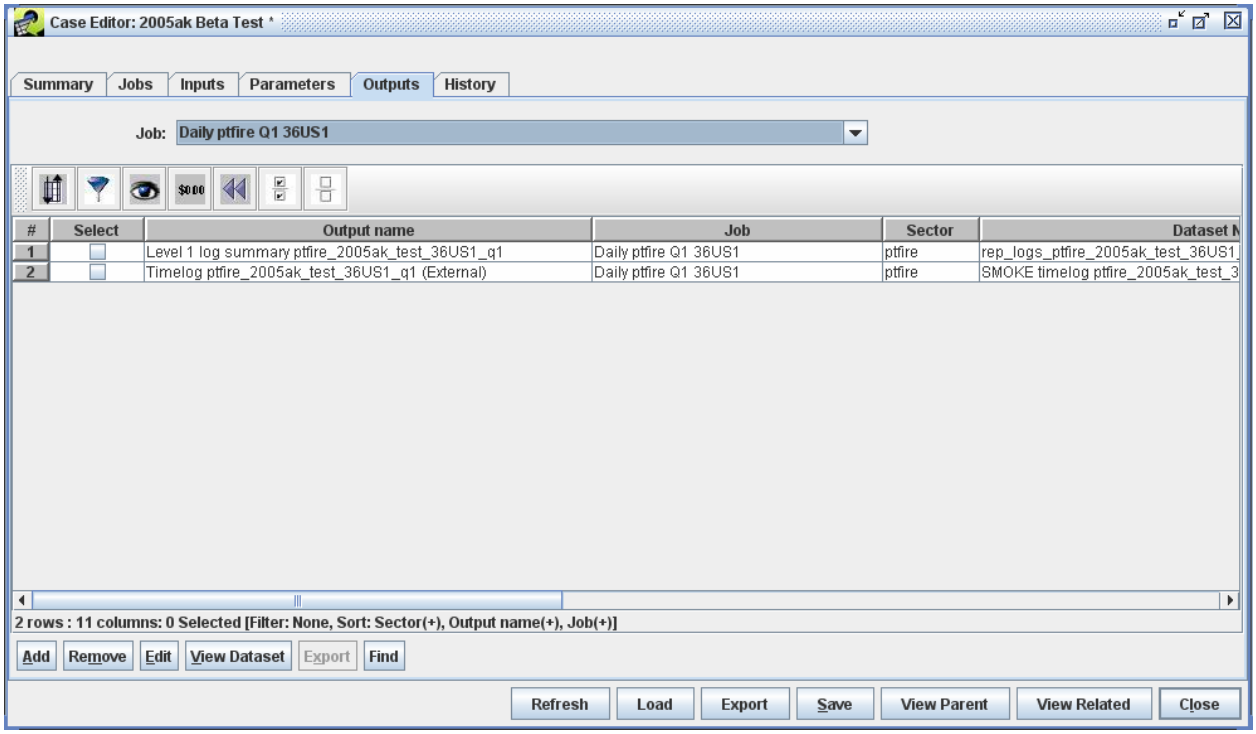
View Parent
View Related
Close


Case Editor: 2005ak Beta Test *
Summary
Jobs
Inputs
Parameters
Outputs
History
Job: Daily ptfire Q1 36US1
# | Select | Output name | Job | Sector | Dataset N
1 | Level 1 log summary ptfire_2005ak_test_36US1_q1 | Daily ptfire Q1 36US1 | ptfire | rep_logs_ptfire_2005ak_test_36US1
2 | Timelog ptfire_2005ak_test_36US1_q1 (External) | Daily ptfire Q1 36US1 | ptfire | SMOKE timelog ptfire_2005ak_test_3
2 rows : 11 columns: 0 Selected [Filter: None, Sort: Sector(+), Output name(+), Job(+)]
Add
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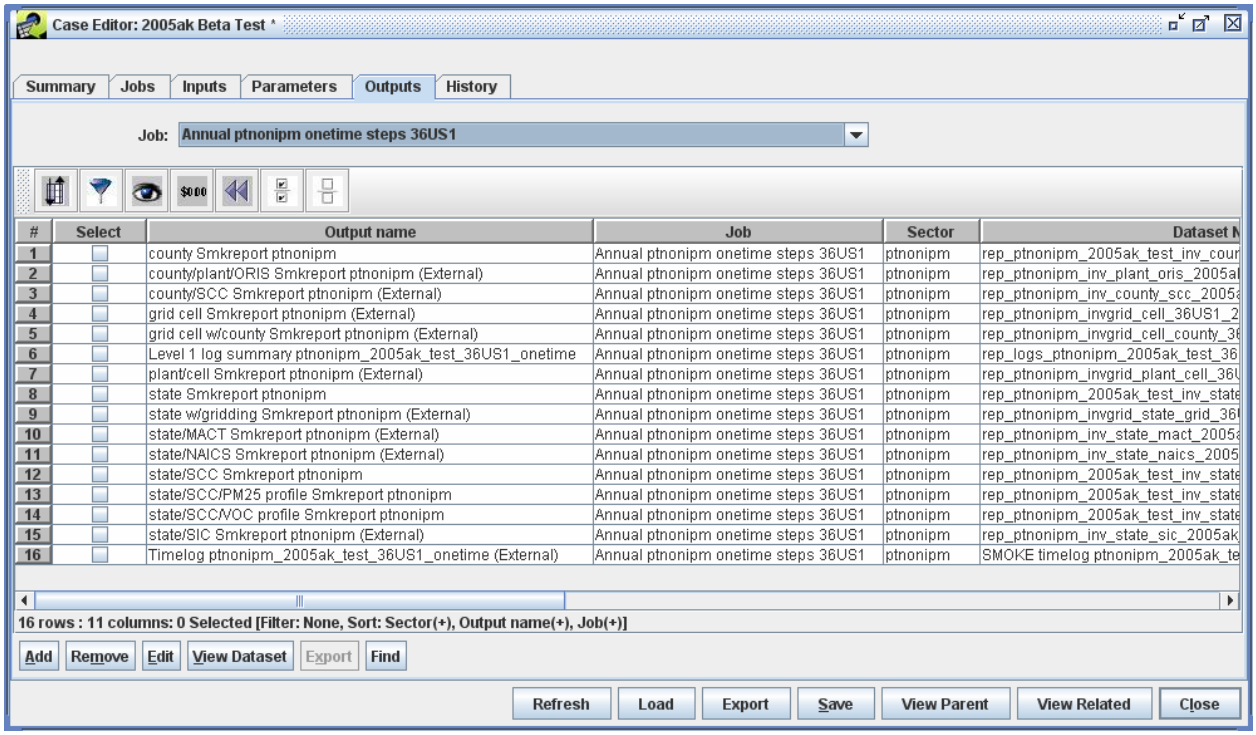
View Parent
View Related
Close


Case Editor: 2005ak Beta Test *
Summary
Jobs
Inputs
Parameters
Outputs
History
Job: Annual ptnonipm onetime steps 36US1
# | Select | Output name | Job | Sector | Dataset N
1 | county Smkreport ptnonipm | Annual ptnonipm onetime steps 36US1 | ptnonipm | rep_ptnonipm_2005ak_test_inv_cour
2 | county/plant/ORIS Smkreport ptnonipm (External) | Annual ptnonipm onetime steps 36US1 | ptnonipm | rep_ptnonipm_inv_plant_oris_2005a
3 | county/SCC Smkreport ptnonipm (External) | Annual ptnonipm onetime steps 36US1 | ptnonipm | rep_ptnonipm_inv_county_scc_2005
4 | grid cell Smkreport ptnonipm (External) | Annual ptnonipm onetime steps 36US1 | ptnonipm | rep_ptnonipm_invgrid_cell_36US1_2
5 | grid cell w/county Smkreport ptnonipm (External) | Annual ptnonipm onetime steps 36US1 | ptnonipm | rep_ptnonipm_invgrid_cell_county_3
6 | Level 1 log summary ptnonipm_2005ak_test_36US1_onetime | Annual ptnonipm onetime steps 36US1 | ptnonipm | rep_logs_ptnonipm_2005ak_test_36
7 | plant/cell Smkreport ptnonipm (External) | Annual ptnonipm onetime steps 36US1 | ptnonipm | rep_ptnonipm_invgrid_plant_cell_36
8 | state Smkreport ptnonipm | Annual ptnonipm onetime steps 36US1 | ptnonipm | rep_ptnonipm_2005ak_test_inv_state
9 | state w/gridding Smkreport ptnonipm (External) | Annual ptnonipm onetime steps 36US1 | ptnonipm | rep_ptnonipm_invgrid_state_grid_36
10 | state/MACT Smkreport ptnonipm (External) | Annual ptnonipm onetime steps 36US1 | ptnonipm | rep_ptnonipm_inv_state_mact_2005
11 | state/NAICS Smkreport ptnonipm (External) | Annual ptnonipm onetime steps 36US1 | ptnonipm | rep_ptnonipm_inv_state_naics_2005
12 | state/SCC Smkreport ptnonipm | Annual ptnonipm onetime steps 36US1 | ptnonipm | rep_ptnonipm_2005ak_test_inv_state
13 | state/SCC/PM25 profile Smkreport ptnonipm | Annual ptnonipm onetime steps 36US1 | ptnonipm | rep_ptnonipm_2005ak_test_inv_state
14 | state/SCC/VOC profile Smkreport ptnonipm | Annual ptnonipm onetime steps 36US1 | ptnonipm | rep_ptnonipm_2005ak_test_inv_state
15 | state/SIC Smkreport ptnonipm (External) | Annual ptnonipm onetime steps 36US1 | ptnonipm | rep_ptnonipm_inv_state_sic_2005ak
16 | Timelog ptnonipm_2005ak_test_36US1_onetime (External) | Annual ptnonipm onetime steps 36US1 | ptnonipm | SMOKE timelog ptnonipm_2005ak_te
16 rows : 11 columns: 0 Selected [Filter: None, Sort: Sector(+), Output name(+), Job(+)]
Add
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View Parent
View Related
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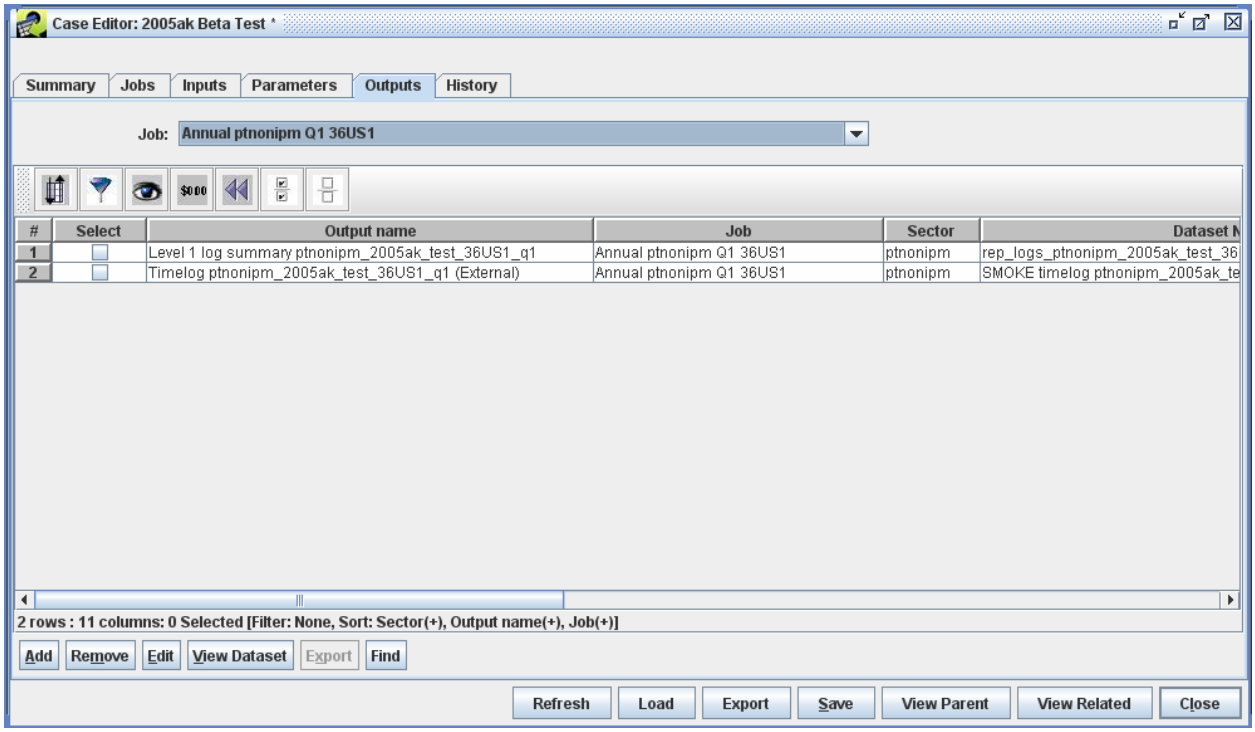
Case Editor: 2005ak Beta Test *
Summary
Jobs
Inputs
Parameters
Outputs
History
Job:
Annual ptnonipm Q1 36US1
# | Select | Output name | Job | Sector | Dataset N
1 | Level 1 log summary ptnonipm_2005ak_test_36US1_q1 | Annual ptnonipm Q1 36US1 | ptnonipm | rep_logs_ptnonipm_2005ak_test_36
2 | Timelog ptnonipm_2005ak_test_36US1_q1 (External) | Annual ptnonipm Q1 36US1 | ptnonipm | SMOKE timelog ptnonipm_2005ak_te
2 rows : 11 columns: 0 Selected [Filter: None, Sort: Sector(+), Output name(+), Job(+)]
Add
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View Dataset
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Find
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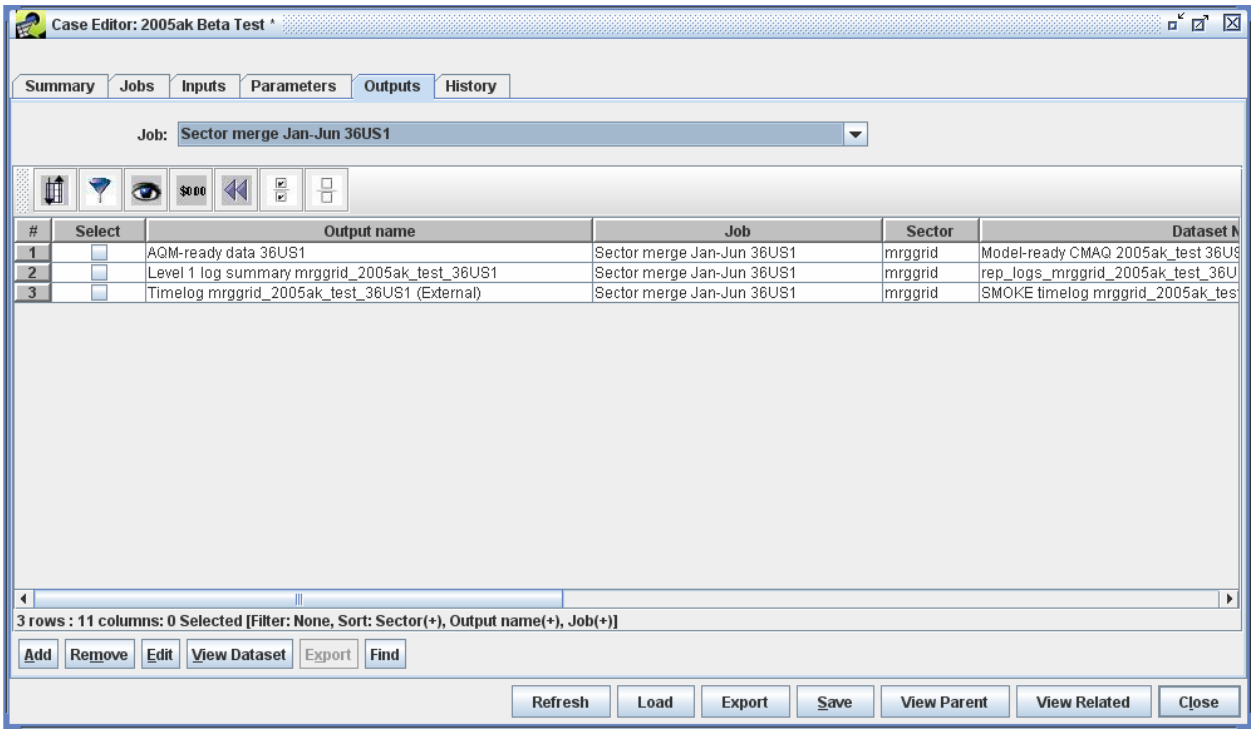
Save
View Parent
View Related
Close


Case Editor: 2005ak Beta Test *
Summary
Jobs
Inputs
Parameters
Outputs
History
Job:
Sector merge Jan-Jun 36US1
# | Select | Output name | Job | Sector | Dataset N
1 | AQM-ready data 36US1 | Sector merge Jan-Jun 36US1 | mrggrid | Model-ready CMAQ 2005ak_test 36US
2 | Level 1 log summary mrggrid_2005ak_test_36US1 | Sector merge Jan-Jun 36US1 | mrggrid | rep_logs_mrggrid_2005ak_test_36U
3 | Timelog mrggrid_2005ak_test_36US1 (External) | Sector merge Jan-Jun 36US1 | mrggrid | SMOKE timelog mrggrid_2005ak_tes
3 rows : 11 columns: 0 Selected [Filter: None, Sort: Sector(+), Output name(+), Job(+)]
Add
Remove
Edit
View Dataset
Export
Find
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Export
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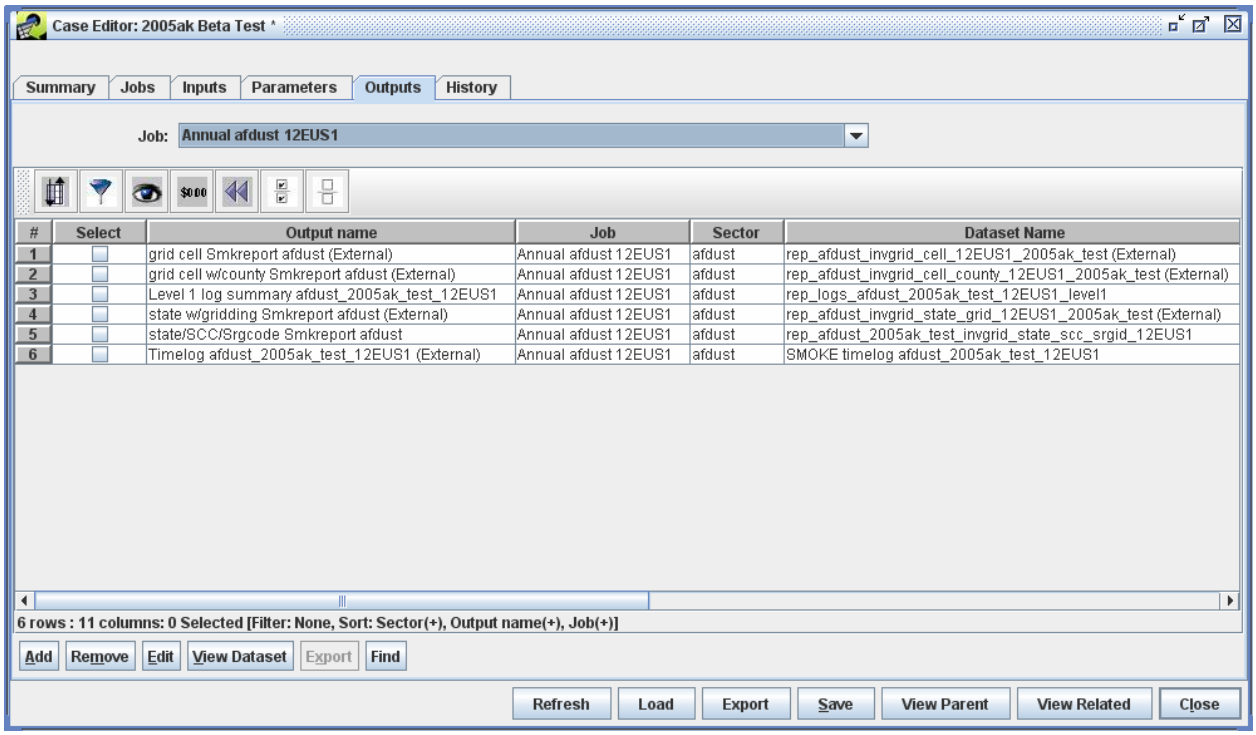
View Parent
View Related
Close




## Trouble Shooting

If a Job fails (i.e., **Run Status** is "Failed") or did not produce the expected Outputs, the first place to look is in the History tab of the Case. For some errors, the EMF wrapper scripts will send back meaningful error messages.

If the History doesn't adequately diagnose the problem, look at the EMF Job log file corresponding to the specific run (Note: Each run of a Job is distinct and has a unique timestamp in the name). Think of these Job logs as the stdout/stderr from a SMOKE run. This is a good place to diagnose both script errors and SMOKE executable errors. The Job log file is located in (using our directory structure):
`/data4/smoke_emf/subsys26/smoke26/scripts/cases/2005ak_test/logs`
If a Job has been run more than once, older Job logs will be located in:
`/data4/smoke_emf/subsys26/smoke26/scripts/cases/2005ak_test/old_logs`

Another resource for identifying SMOKE errors is the "Level 1 log summary <Job name>" Output. This Job specific dataset summarizes the warnings and errors from all the SMOKE logs. For more information on this Output, see the README under:
`/data4/smoke_emf/subsys26/smoke26/scripts/log_analyzer`

As with earlier Cases, other possible errors are a mismatch of the EMF client user and the SMOKEServer user and too restrictive permissions for the various SMOKE directories or files (see Directory Permissions).