

Title 24 HERS Registry Data Exchange Schema

Residential Software Planning Workshop

September 23, 2010

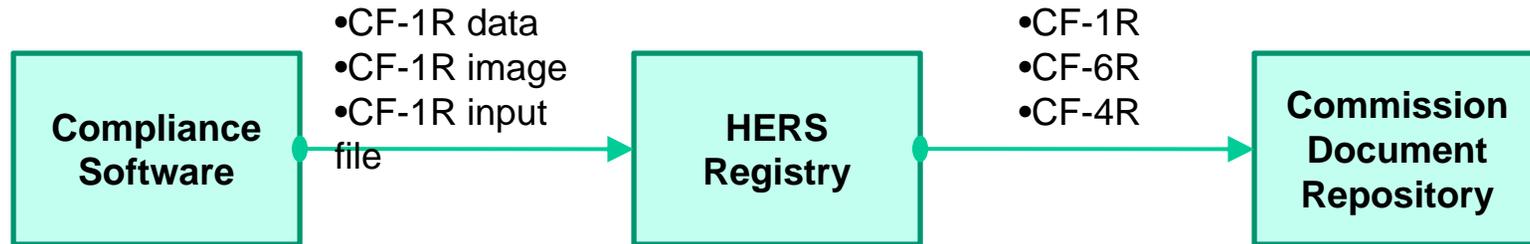
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Residential Compliance Document Registration and Retention



Purpose of Document Registration and Retention

- Retains an enforceable copy of the compliance documents submitted to the enforcement agency.
 - registration is prerequisite to submittal to enforcement agency (Standards10-103).
 - enforcement agency is not required by law to retain residential documentation.
- Identifies responsible person who is accountable for compliance with the regulations.
 - responsible person must submit signature to the registry as prerequisite to registration.
- Provides reference document for use in validation of submitted documents.
- Provides basis for quality control follow up and correction of defects.



Residential Compliance Document Registration and Retention



HERS Registry

- Database application with web-based user interface - designed and implemented by HERS provider.
- Authorized users transmit information to the Registry to complete compliance documentation
- Responsible persons provide electronic signatures to the Registry to complete the document registration procedure



Residential Compliance Document Registration and Retention

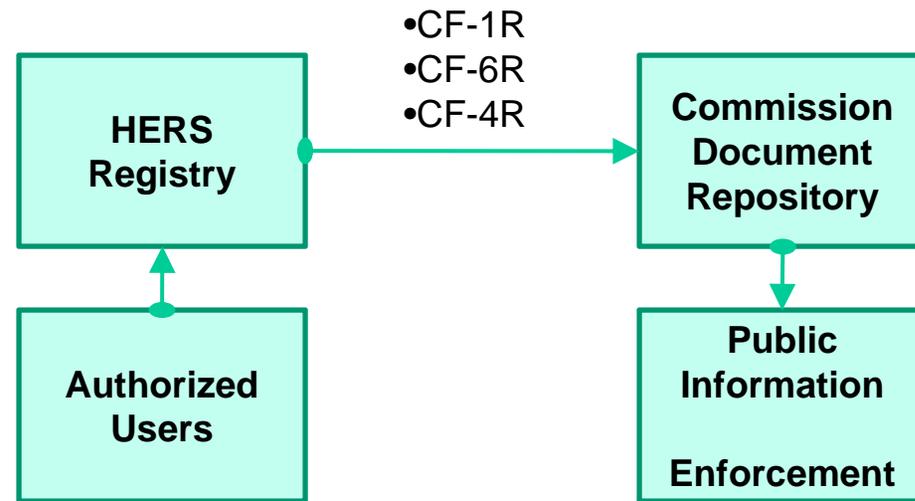


Energy Commission Document Repository (in development)

- Registration process creates a duplicate document that is transmitted from the HERS Registry to Commission Document Repository for retention.
- Copies of the compliance documents retained in the Repository are available to satisfy public information requests.
- Copies of the retained compliance documents are retained in the custody of the Commission such that they are admissible as evidence for enforcement actions (California Evidence Code Sections 1530(a)1 and 1530(a)2).



Residential Compliance Document Registration and Retention

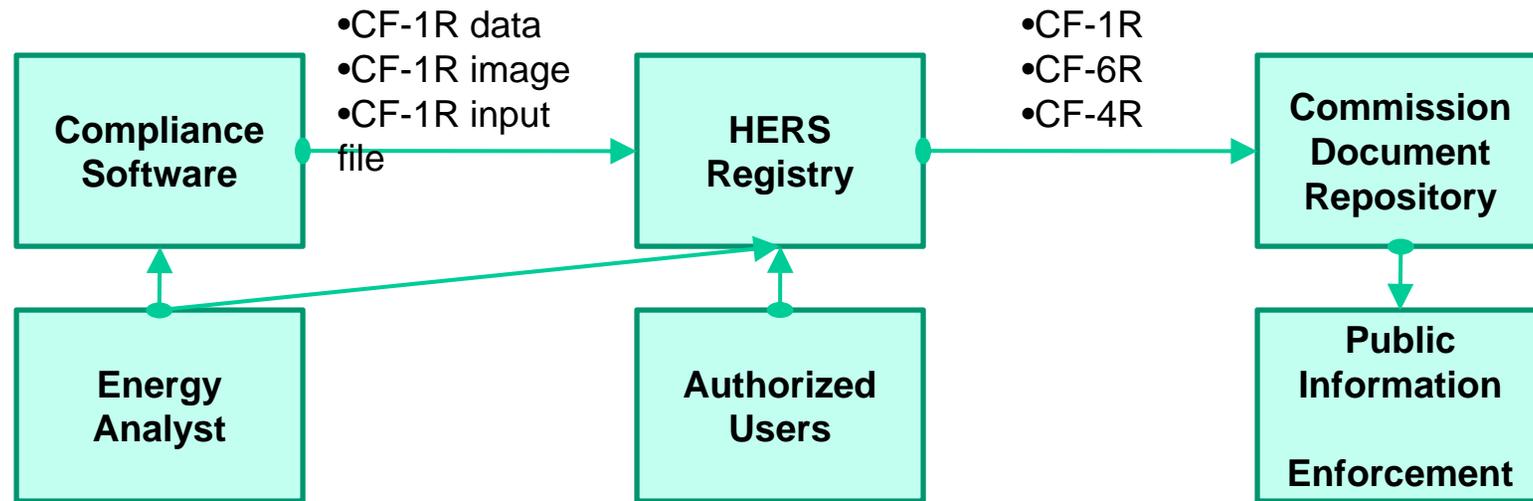


Registration of CF-6R, CF-4R, and *prescriptive* CF-1R compliance documents

- information(data) to complete document is given electronically to HERS Registry by persons who have created Authorized User accounts.
- signature of responsible person is given electronically to HERS Registry.
- registered document identified by unique registration number, date/time stamp.
- registered document (pdf) retained as non-editable image and copy sent to Repository.



Residential Compliance Document Registration and Retention

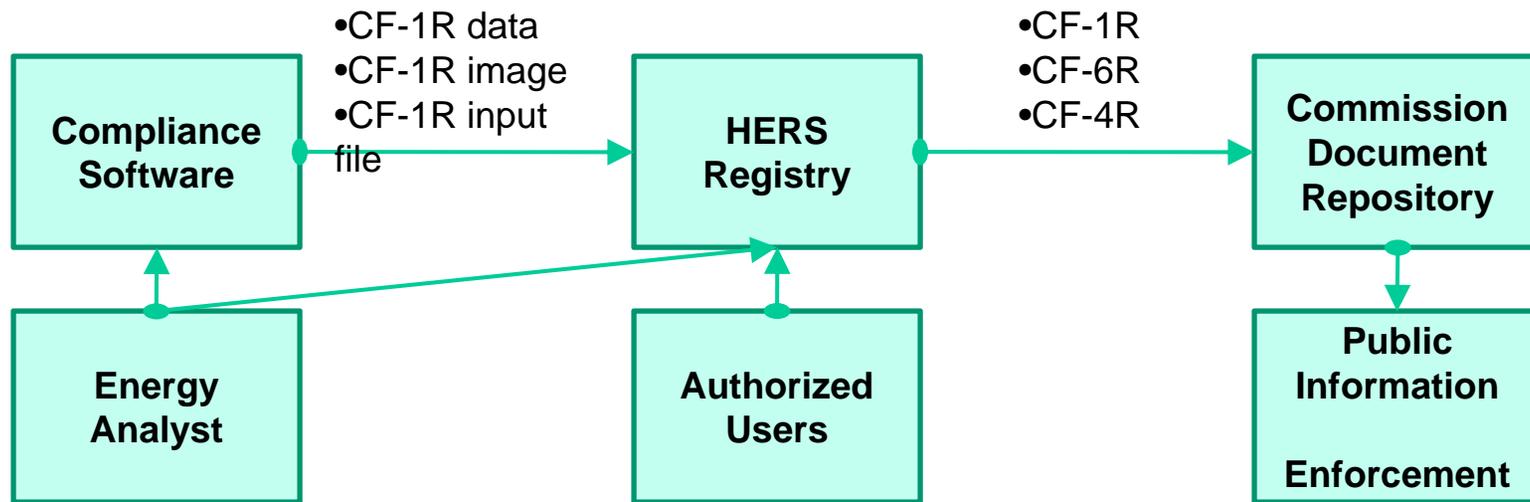


Registration of *performance* CF-1R compliance documents

- a) Energy Analyst performs input to Compliance Software.
- b) Compliance Software exports the compliance output information as data; as an image of the completed document; and also includes an input file for the compliance run (2008 Residential ACM Appendix D).
- c) Energy Analyst uploads the export file(s) to the Registry.



Residential Compliance Document Registration and Retention



Registration of *performance* CF-1R compliance documents (cont.)

- d) Signature of the Energy Analyst (Documentation Author) is given electronically to the Registry.
- e) Signature of responsible person (Builder, Architect, etc.) is given electronically to Registry.
- f) Registered document identified by unique registration number, date/time stamp.
- g) Registered document (pdf) retained as non-editable image and copy sent to Repository.



Features in Development



Data Exchange between Compliance Software and HERS Registry

- 2008 Residential ACM Appendix D does not specify a standardized data exchange format or protocol.
- 2011 update development will specify a standardized schema for Certificate of Compliance data exchange that must accommodate:
 - registration of both residential and nonresidential Certificate of Compliance documents.
 - transmittal of any other documentation and data needed to support registry database features that facilitate administration of NSHP, ARRA incentive programs, Utility rebate programs, etc..



Features in Development



Commission Document Repository

- 2011 update development will specify requirements and implement a Commission Document Repository - a database and document archive application that will be hosted by a third party and administered by (in the custody of) Commission staff.
- Document Repository features will include:
 - Document verification utilizing digital signature software technology
 - Document information search using key words
 - Electronic document retrieval and transmittal
 - Utilities to facilitate retrieval of documentation and data information for answering public information requests.



Features in Development



Data Exchange between HERS Registry and Commission Document Repository

•2011 update development will specify requirements and implement standardized file transfer protocols and standardized schemas for data exchange between the HERS Registry and the Commission Document Repository to accommodate:

- all residential and nonresidential compliance document types.
- maintaining the integrity of digital signature features of registered document files being exchanged between the Registry and the Repository.
- sufficient security measures, to ensure registered data and electronic documentation cannot be altered during transmittal.

