

API COPM CPMA Chapter 20.1

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MPMS Chapter 20.1

Production Measurement and Allocation Systems

- The CPMA committee was organized and started up during the **2007** API COPM Spring and Fall committee meetings.
- The committee was put together to **revise the 1993** version of MPMS Chapter 20.1 Allocation Measurement into 6 separate standards to better reflect the current onshore and offshore production allocation measurement needs.
- It was decided by the committee during the **2012** meeting that the content of the 6th standard (20.6) was now going to be included as part of the 1st standard (20.1).

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Production Measurement and Allocation Systems

- The responsibility of the MPMS Chapter 20.1 standard was transferred from the Committee on Liquid Measurement (COLM) to the CPMA committee during the *fall 2007* COPM meetings.
- The revised 20.1 was to follow the remaining standards
- The first **Standards Resource & Research Request (SR³)** for 20.1 was formerly approved during the *April 2010* net meeting.
- Another SR³ was approved with a scope and title change during the *June 2012* net meeting.
- A third SR³ was approved at the *spring 2017* CPMA meeting to approve another scope change and a new title.

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Updated Scope

Current scope of the 1993 20.1 standard is:

This document provides design and operating guidelines for liquid and gas allocation measurement systems. Included are recommendations for metering, static measurement, sampling, proving, calibrating, and calculating procedures.

The scope approved in 2017 is:

This document provides requirements and guidelines for the design and operation of upstream production measurement and allocation systems. This includes identifying requirements, selecting the basis, and defining the methodology, implementation, operation and management of the production measurement and allocation system.

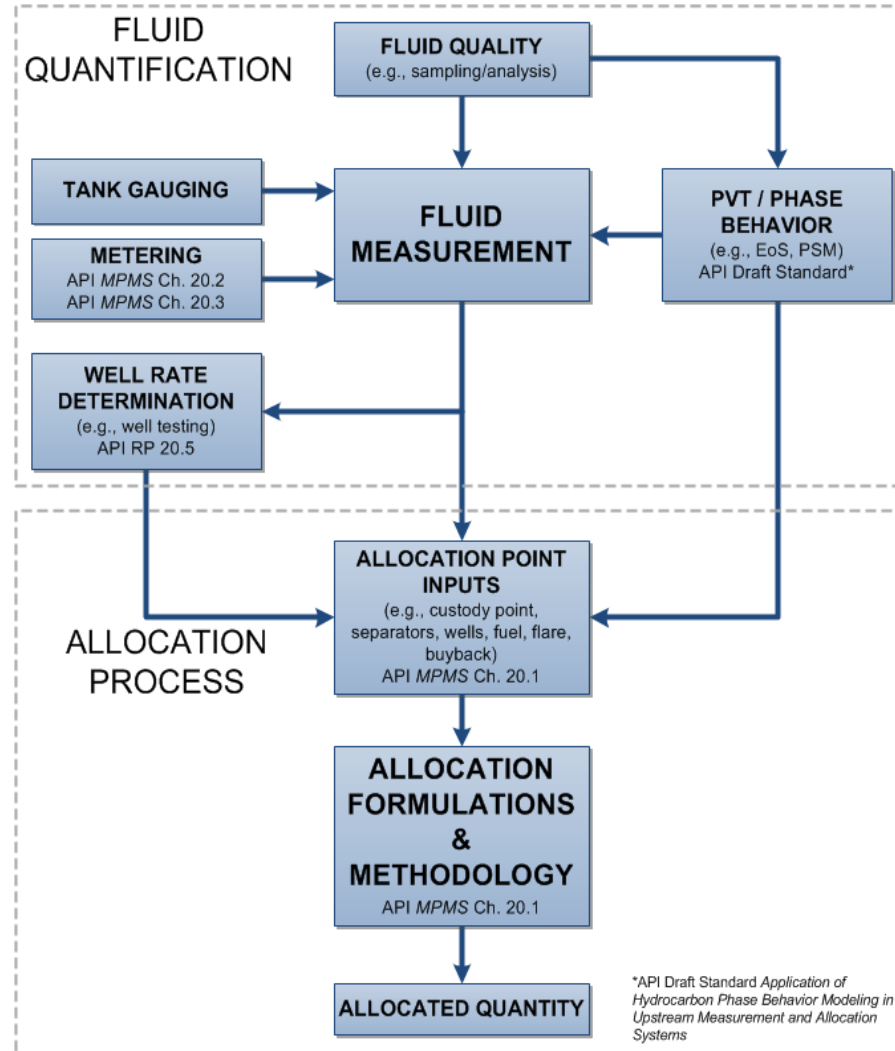
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Document Structure

1. Scope
2. Normative References
3. Terms, Definitions, Abbreviations and Symbols
4. Overview of a Production Measurement and Allocation System
5. Identify Production Measurement and Allocation System Requirements
6. Select Basis of Allocation
7. Define Allocation Process
8. Implement Production Measurement and Allocation System
9. Operate and Manage Production Measurement and Allocation System

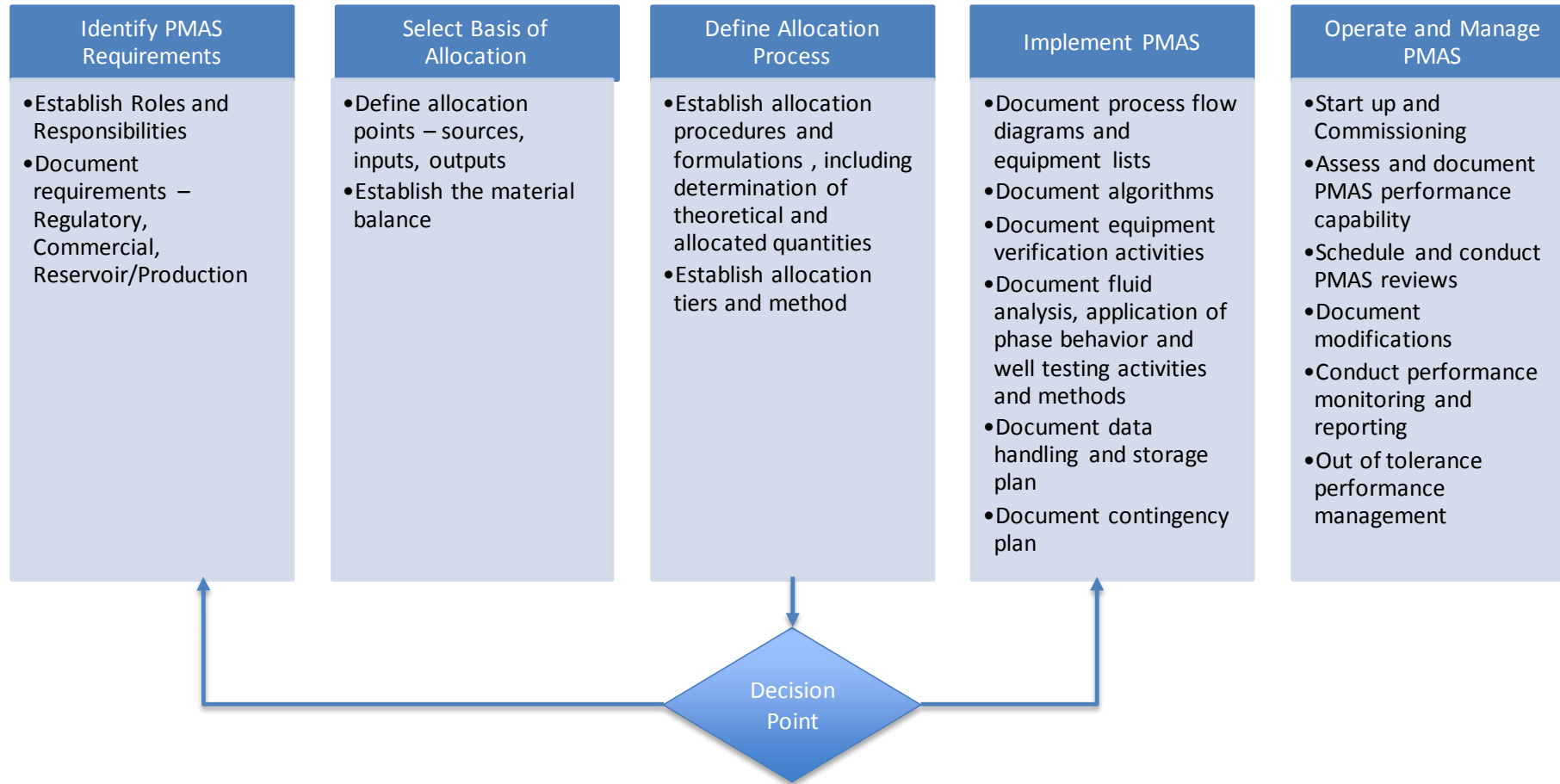
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Overview – Chapter 20.X



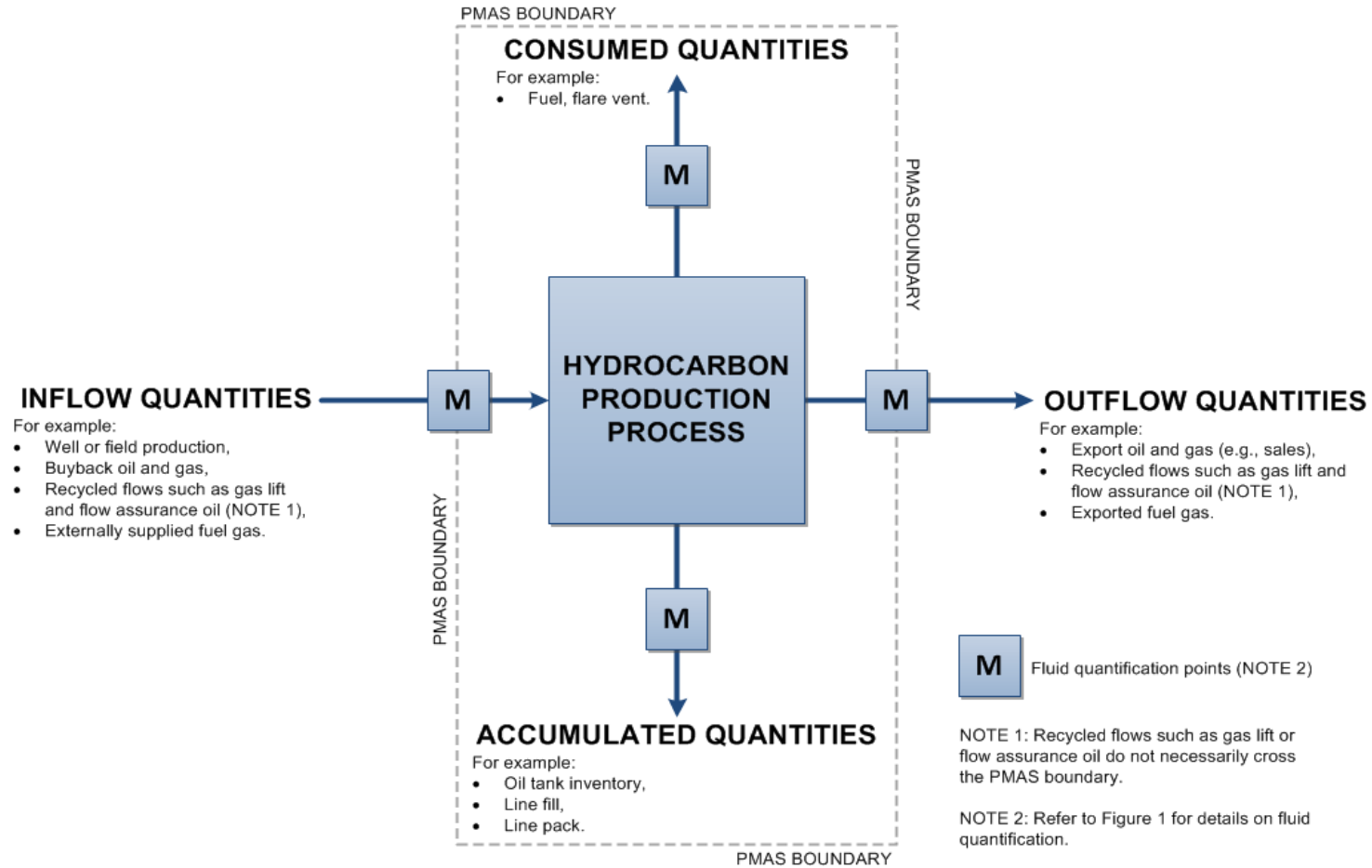
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Business Process Workflow



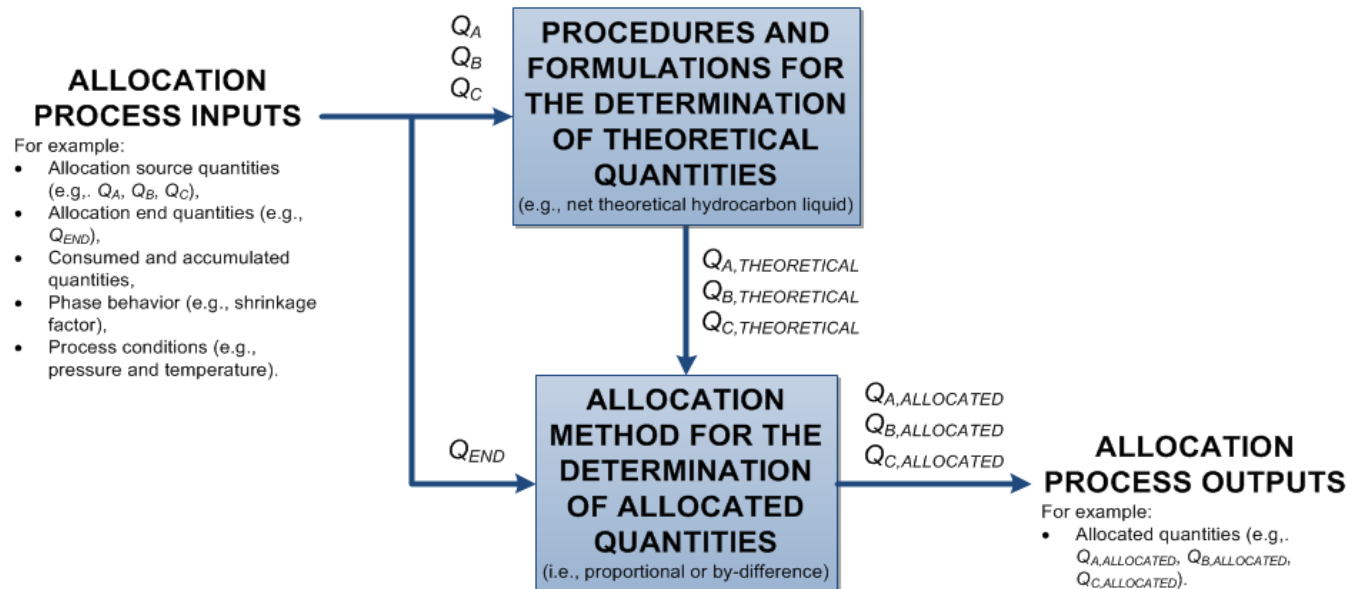
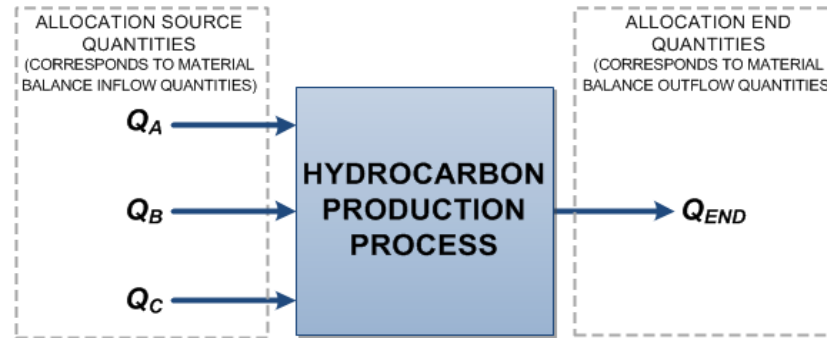
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Material Balance



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Allocation Process



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Current Status

- The document has been through a working group ballot prior to the Fall 2017 (Washington DC) meeting
- Comments are currently being resolved and will be discussed further in Spring 2018 (Dallas)
- The next step is the development of an Annex with worked examples
- Goal is a CPMA Ballot prior to Fall 2018 (Denver)

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Value for Industry

Value this standard will have for the industry:

- To give guidance on how to design, implement, and maintain an allocation system for gas, oil, and water production.
- To give guidance on how to incorporate the other API Chapter 20 standards, recommended practices, and draft standards into an allocation system.