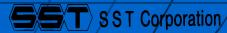


Arthur Fabian, PhD



SST Business Model

 Represent numerous API & Intermediate Manufacturers worldwide.

Market and Sell APIs & Intermediates to both the Brand and Generic Industries in the US.

Provides a unique Regulatory vantage-point.



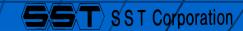
SST Regulatory Model



(A)NDA Sponsor

API Manufacturers/Suppliers

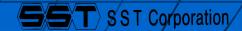
Customers



Industry Regulatory Model

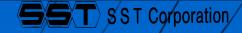


- Historical Model for Generic Industry
- Widespread model (40%) for the Brand Industry due to Outsourcing



SST's Business Interest

- Maintain Supplier competitiveness.
- Introduce new synthetic methods, equipment, alternate sites, specifications, PAT techniques.
- Encourage Change / Innovation.
- Same goal as Agency's Quality Initiative.

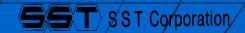


Presentation Perspective

Drug Substance & DMF Holder

rather than

Drug Product & (A)NDA Sponsor

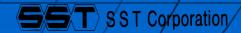


Presentation Topics

Five Points to Consider in the revision

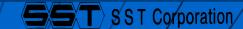
Relevance of the Risk-Based Paradigm

"Outside the Box" Ideas



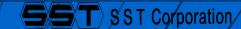
Point # 1

Revise Charges Guidance prior to CFR 314.70 Revision



Point # 2

Separate Drug Substance from Drug Protict



Separate Sections

- Requires authors to adopt a presently absent Drug Substance mindset.
 - Filing recommendations for scale and equipment changes for small molecule APIs would be present.
 - Change from Centrifugation to Filtration would not be a PAS.*

Point #3

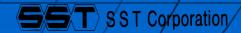
MILLE DIF HUGS

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DMF Holders

- Filing mechanism format: Sponsor/DMF Holder
 - PAS/AM, CBE-O/AM, AR/AM.

- Expand the use of DMF Annual Update
 - Minor Changes via AR/AU.
 - No additional documentation to FDA.



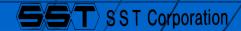
Point # 4

Recognize the Final Step Continuum

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All Process Changes after the Final Intermediate (FI) require a Pre-Approval Supplement!!



Final Step: Changes Guidance

Last Step FI API

Final Step: Science-Based

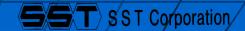


CAPI: Crude API

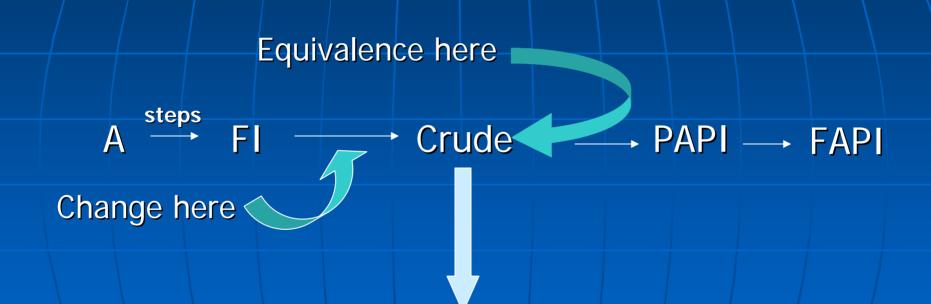
PAPI: Purified API

FAPI: Final API

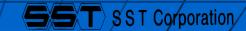
* Drying, Milling, Micronization, Blending, Packaging



Final Step: Science-Based



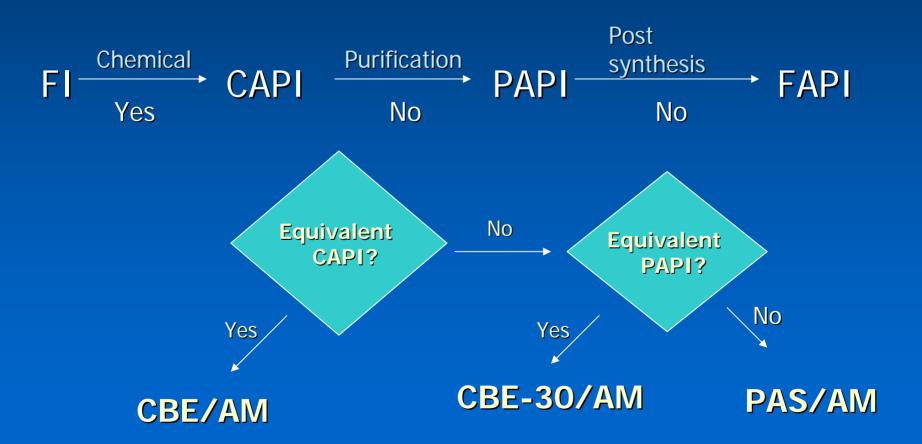
PAS should not be necessary!



Phased Approach

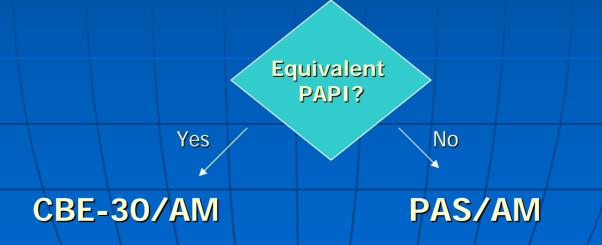
FI CAPI	Purification PAPI	Operations F	API \
Yes	No	No	
Yes	No	Yes	
No	Yes	No	
No	Yes	Yes	
No	No	Yes	
Yes	Yes	No	
Yes	Yes	Yes	
No No	No	No, ie	
		different FI	SST Corporation/

Chemical Phase Only



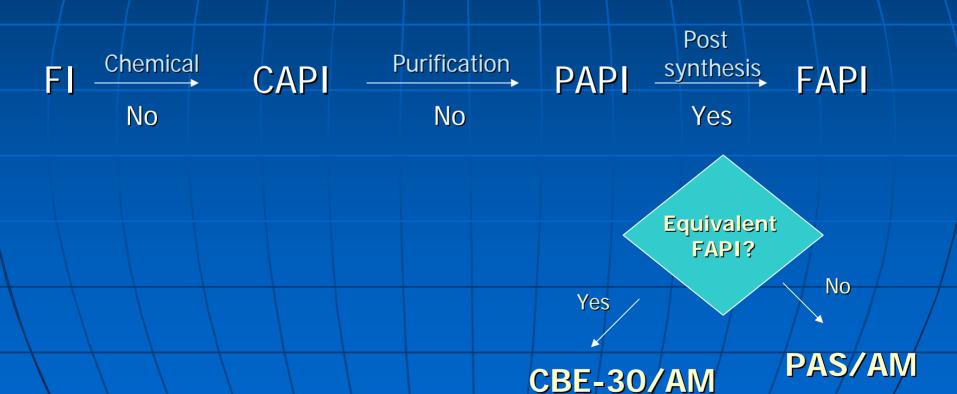
Purification Phase Only





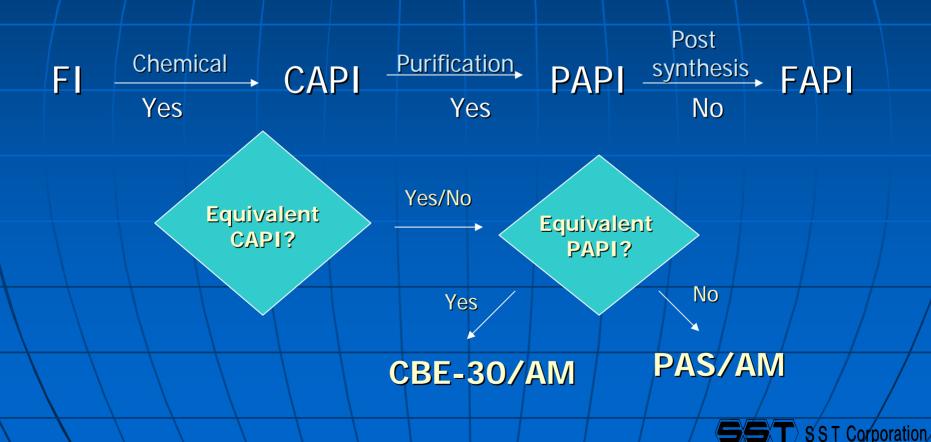


Post Synthesis Phase Only

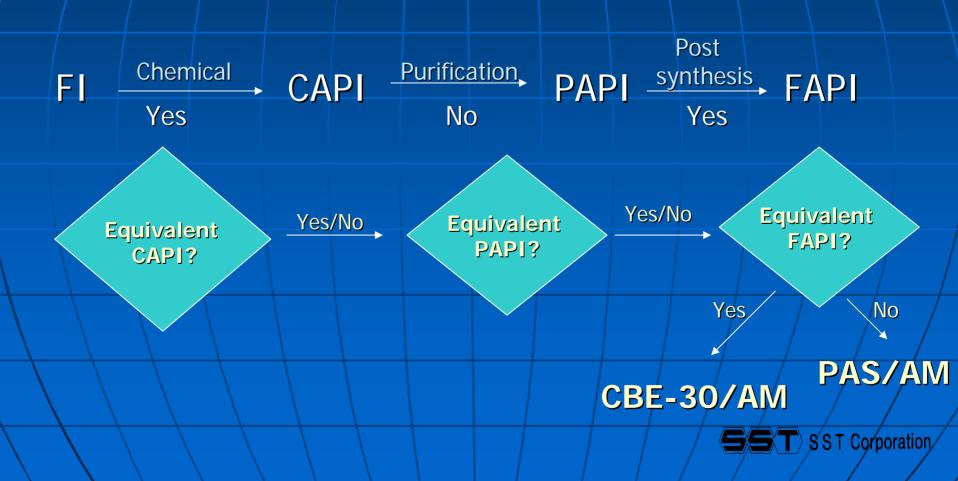


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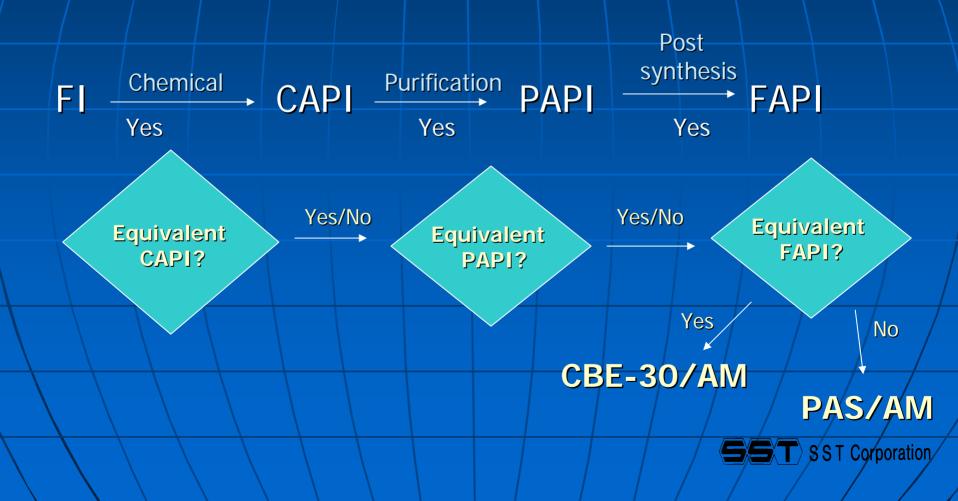
Chemical & Purification Phases



Chemical & Post synthesis Phases



Change in all Three Phases



Point # 5

Mor Charge Redefinition

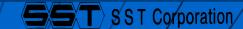
Proposed Redefinition

- Major Process Changes
 - Must impact the API, not an upstream Intermediate
 - Proof of Equivalence needs supporting data beyond a specification comparison.
- This definition amenable to Scale and Equipment Changes, but other factors need consideration.
- Site and Specification Changes need a different analysis.



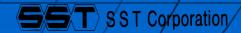
Relevance of the

Risk-Based Paradigm?



Risk-Based Paradigm

- FDA only pre-approves Changes affecting the API and requiring more complex equivalence data, ie, Major.
- Totally analogous to the Risk-Based Inspection Model.
- Does not offer select companies reduction of filing mechanism; not needed.





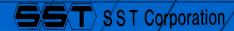
Outside the Box Ideas



High Quality CMC Sinformation, not high volume.



 Special DMF Amendment for Changes; no link to (A)NDA Sponsor filing.



TO SIMMATIC

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Thank You for your Attention!

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