

Focus on Post Approval
Changes and Change
Control Evaluation
Regulatory Best Practices

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PREFACE

The IPA launched its Quality Forum (QF) in April 2015 to help Indian pharmaceutical manufacturers achieve parity with global benchmarks in quality. The QF made a commitment to a multi-year journey to address key issues facing the industry and develop best practices.

The QF focused on several priority areas in the last four years, viz., Data Reliability, Best Practices & Metrics, Culture & Capability, Investigations, etc. It took upon itself the challenge of developing a comprehensive set of guidelines for several of these topics. In this document, we focus on the best regulatory practices specifically focused on the Post approval changes (i.e., regulatory reporting category evaluation and regulatory documents requirement for specific changes) & change control evaluation. This document also highlights the key major sections of a sANDA application that, if appropriately and scientifically addressed at the time of the original sANDA submission, leads to decrease in the number of deficiency points in the complete response letter (CRL) and provides ways to avoid 'Major' category CRLs. In addition, this document identifies certain key areas of an sANDA application which needs to be continuously monitored and communicated via suitable regulatory strategies, in order to obtain timely approval of and sANDA application.

This document is the outcome of a concerted effort over the last few months by senior managers engaged in the regulatory functions of six IPA member-companies. Mr. Vipul Doshi, Mr. Srinivas Gurram (Srini), Ms. Ranju Nijhawan, Mr. Bhaumik Modi and Mr. Darshan Doshi (all in Cadila Healthcare); Mr. Pramod Dahibhate and Mr. Girish Chavan (Lupin); Mr. Dilkesh Shah (Torrent Pharmaceuticals); Mr. G. Srinivas Rao and Mr. S Sri Rama Murthy (Dr Reddy's Laboratories); Mr. P J Deepak (Sun Pharma); and Mr. Ramakant Shukla and Ms. Praveena Manglorkar (Cipla). They shared current practices, benchmarked these with the existing regulatory guidance from the USFDA and developed a robust draft document and got it vetted by leading subject matter experts. The IPA acknowledges their hard work and commitment to the project.

The IPA also wishes to acknowledge the CEOs of six member-companies who have committed their personal time, human resources and provided funding for this initiative.

This document, to be released at the IPA's 6th India Pharmaceutical Forum 2021, will be hosted on the IPA website - www.ipaindia.org – in order to make it accessible to all manufacturers in India and abroad.

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This document represents the current thinking of the Indian Pharmaceutical Alliance (IPA) on this topic. It does not establish any rights for any person or persons and is not binding on IPA or the public. An alternative approach may be used as long as it satisfies the requirements of the applicable statutes and regulations.

Introduction and Background

- ❖ The document covers recommended reporting categories for post approval changes for drugs other than specified biotechnology and specified synthetic biological products.
- ❖ The key objectives of this regulatory best practice document are listed below:
 - This document acts as a Ready Reckoner to determine the post approval submission category as per US FDA's various guidelines;
 - Identification of post approval change submission requirements and intelligence at one place;
 - Precise and easy change control assessment process;
 - For the smooth life cycle management of the post approval changes.
- ❖ Various post approval changes have been broadly classified in to following categories. Detailed regulatory requirements for each change is provided below in Annexure 1 of this document.
 - Pharmacopeia Compliance;
 - Type II DMF Notifications;
 - Risk Mitigation Strategies;
 - Increase Productivity or Trouble Shooting;
 - Packaging Material Changes;
 - Cost Improvement.

Scope

This document provides recommendations to holders of Abbreviated New Drug Applications (ANDAs) who intend to make post approval changes in accordance with section 506A of the Federal Food, Drug, and Cosmetic Act (the Act) and § 314.70 (21 CFR 314.70).

Definitions

Prior Approval Supplement (PAS):

❖ A major change is a change that has a substantial potential to have an adverse effect on the identity, strength, quality, purity, or potency of a drug product as these factors may relate to the safety or effectiveness of the drug product. A major change requires the submission of a supplement and approval by the FDA prior to distribution of the drug product made using the change. This type of supplement is called, and should be clearly labeled, a Prior Approval Supplement (§ 314.70(b)).

❖ Changes Being Effected in 30 Days (CBE-30) and Changes Being Effected (CBE) Supplement:

A moderate change is a change that has a moderate potential to have an adverse effect on the identity, strength, quality, purity, or potency of the drug product as these factors may relate to the safety or effectiveness of the drug product. There are two types of moderate change. One type requires the submission of a supplement to the FDA at least 30 days before the distribution of the drug product is made using the change. This type of supplement is called, and should be clearly labeled, a Supplement - Changes Being Effected in 30 Days (§ 314.70(c)(3)). In the second type, the FDA may identify certain moderate changes for which distribution can occur when the FDA receives the supplement (§ 314.70(c)(6)). This type of supplement is called, and should be clearly labeled, a Supplement - Changes Being Effected.

Annual Report:

❖ A minor change is a change that has minimal potential to have an adverse effect on the identity, strength, quality, purity, or potency of the drug product as these factors may relate to the safety or effectiveness of the drug product. The applicant must describe minor changes in its next Annual Report (§ 314.70(d)).

Annexure 1

Checklist for post approval changes & change control evaluation

Reporting categories		CBE-30		CBE
Regulatory Documents Required at the Time of PAF (Post approval Filing)		 Specification. STP (if applicable). Certificate of Analysis (COA). Method verification (if applicable). Updated stability data. Dissolution Profile Dissolution Method discrimination (if applicable). 	 Specification. Standard test procedure. 	 Specification. STP. COA. Method verification/validation/equivalency (as applicable). Updated stability data.
Change Proposal Evaluation Documents		 Stability trend data (if applicable). Method verification (if applicable). Impact of relaxation in API spec over DP spec or vice versa (if applicable). 	 Evidence/justification that removal is not adversely impacting the identity, strength, quality, purity, or potency of the API/DP. 	 Method verification/ equivalency/validation (as applicable). Impact of addition of test in API spec over DP spec or vice versa (if applicable).
Type of Change		Relaxation of acceptance criteria and change in dissolution method.	Deletion of test (if test is CMA, the FDA may not approve the Supplement).	Addition of test
Area	Pharmacopeia Compliance		API/DP	
Sr. No.	Pharmaco	÷.	2	m

Area		Type of Change	Change Proposal Evaluation Documents	Regulatory Documents Required at the Time of PAF (Post approval Filing)	Reporting categories
1	Type II DMF Notification				
		Change/addition in intermediate source.	 1 lot API COA with new source analysed by the DP manufacturer. cGMP compliance 3 lots API equivalency data with old source API. 	 1 lot API COA with new source. New source's cGMP certificate and debarment certificate. 3 lots API comparison/equivalency data. 	PAS [If mfg. process, specification of intermediate/final API remains same or similar then the change may be submitted under CBE-30 reporting category]
		Change/additional of KSM source (other than source material change for natural product).	Not applicable	DMF holder's notification letter.	Annual reportable [Generally, this information is not disclosed by the DMF holder to the ANDA applicant; hence no supplement filing is warranted].
	API	Change in the process (after final intermediate processing step). (Subject to no change is ROS and/or impurity profile)	 1 lot API COA. 3 lots API equivalency data with old process API. 	 1 lot API COA tested by DP manufacturer. 3 lots API equivalency data with old process API. 	PAS
		Change in process (before final stage/after final intermediate processing step) that results into change in the ROS and/or impurity profile.	1 lot API COA 1 batch DP COA FP accelerated and long term stability data (it will be required if there is change in degradation impurities due to change in process). FP forced degradation study report. API and FP related substance method validation.	1 lot API COA analysed by DP manufacturer. 1 batch DP COA. DP accelerated and long term stability data. DP forced degradation study report (if applicable). API and DP related substance method validation (if applicable).	PAS

Reporting categories		PAS	CBE-30	CBE-30	PAS
Regulatory Documents Required at the Time of PAF (Post approval Filing)		 API spec and STP. API COA. DP dissolution profile similarity. DP COAs. 3 M Accelerated and long-term stability data of DP. DP executed BMR. 	 1 lot API COA with changed manufacturing process. 3 lots equivalency data with old process API. DP COA. 	 cGMP and debarment certificates. 1 lot API COA. 3 lots equivalency data with old API mfg. site. 	 GGMP and debarment certificate. 1 lot API COA. 3 lots equivalency data with old API mfg. site. 1 batch DP COA. 3 M Accelerated and long-term stability data of DP.
Change Proposal Evaluation Documents	- 2	 1 DP batch per strength (if same impurity profile). API spec and STP. API COA. DP COAs. DP Accelerated and long-term stability data. DP dissolution profile. 	 1 lot API COA with changed manufacturing process. 3 lots equivalency data with old process API. 	 cGMP status. cGMP and debarment certificate. 1 lot API COA. 3 lots equivalency data with old API mfg. site. 	 GGMP status. GGMP and debarment certificate. 1 lot API COA. 3 lots equivalency data with old API. 1 batch DP COA. 1 DP batch stability data (Accelerated and long-term).
Type of Change		Change in ROS or change in API source.	Final API Spec/STP change due to change in manufacturing process (i.e., addition or deletion of residual solvents).	API mfg./testing site addition/change (Subject to site is US <u>FDA audited</u> , no change in manufacturing process / API Spec/ROS and site is currently in GMP compliance).	API mfg/testing site addition/change if the site is not US FDA audited and/or there is change in manufacturing process and/or ROS.
Area	Type II DMF Notification				
Sr. No.	Type II DIV	ın	w	7	œ

Sr. No.	Area	Type of Change	Change Proposal Evaluation Documents	Regulatory Documents Required at the Time of PAF (Post approval Filing)	Reporting categories
Risk Mitigation	tion				
		Drug product manufacturing site change:			
		For solid oral IR dosage forms:			
		The new site has either never been inspected OR with no satisfactory cGMP status for the type of operation being moved OR transfer		DP dissolution profile similarity. 3 M Accelerated and long-term stability data for <u>one batch</u> for all strengths.	PAS
н		causes a restart at the new manuracturing site of a type of operation that has been for discontinued for more than two years.	causes a restart at the new manufacturing site coMP certification, Debarment Certification, GDUFA of a type of operation that has been fees payment Receipt, LOA, US agent Details, site discontinued for more than two years.		
		For solid oral IR dosage forms:	Inspection details, 356h form, retest data.	DP dissolution profile similarity.	
	ОО	The new site has been inspected for the type of operation being moved.		stability data for <u>one batch</u> for all strengths.	CBE 30
		FP spec/STP change			
2		Reduction in shelf life	Long-term stability data up to the proposed shelf life. Intermediate condition stability data (if applicable). Root cause for the reduction in the shelf life. Intended stability protocols.	Long-term stability data up to the proposed shelf life. Intermediate condition stability data (if applicable). Revised expiration dating period certification. Revised BMR and BPRs. Intended stability protocols.	CBE-30

Reporting categories		PAS		Annual Report		
Regulatory Documents Required at the Time of PAF (Post approval Filing)	that has not been approved sproved protocol.	 Exhibit stability protocols. Intended stability protocols. Updated long-term stability data up to the proposed shelf life. Pilot scale batch BMRs and BPRs. Intended BMRs and BPRs. Expiration dating period certifications. 	roduction batches obtained	 Intended stability protocols. Updated long-term stability data up to the proposed shelf life. Intended BMRs and BPRs. Expiration dating period certifications. 		
Change Proposal Evaluation Documents	Based on (1) data obtained under a new or revised stability testing protocol that has not been approved in the application, or (2) full shelf life data on pilot scale batches using an approved protocol.	 Exhibit stability protocols. Intended stability protocols. Long-term stability data up to the proposed shelf life. 	An extension of an expiration dating period based on full shelf life data on production batches obtained under a protocol approved in the application.	 Long-term stability data up to the proposed shelf life. 		
Type of Change	Extension in shelf life					
Area		å				
Sr. No.		m				

Reporting categories		Annual Report		PAS		
Regulatory Documents Required at the Time of PAF (Post approval Filing)		 Capsule shell composition. Vendor and DP manufacturer's COA. TSE-BSE certification. Residual solvent declaration. Intended BMR. Specification and STP of capsule shell. Finished product specification, STP and COA. Exhibit BMR. Stability data. Vendor letter of authorization. 	, color or dye, or	Capsule shell composition. Vendor and DP manufacturer's COA. TSE-BSE certification. Residual solvent declaration. Intended BMR. Specification and STP of capsule shell. Finished product specification, STP and COA. Exhibit BMR. Stability data. Vendor letter of authorization.		
Change Proposal Evaluation Documents	No change in capsule composition or appearance	 Capsule shell composition. Vendor COA. TSE-BSE certification. Residual solvent declaration. Vendor letter of authorization. 	Any change in capsule composition or appearance, including change in size, color or dye, or a change from gelatin to non-gelatin alternative.	 Capsule shell composition. Vendor COA. TSE-BSE certification. Residual solvent declaration. Vendor letter of authorization. 		
Type of Change		Alternative hard gelatin capsules supplier.				
Area			Excipients			
Sr. No.		23	4			

Sr. No.	Area	Type of Change	Regulatory Documents Required at the Time of Phange Proposal Evaluation Documents PAF (Post approval Filing)	Reporting categories
crease Pr	ncrease Productivity or Trouble Shooting	ouble Shooting		
			For IR products: Based on (1) equipment used to produce the test batch(es) may vary in capacity, but are of the same design and operating principles; (2) batch(es) is manufactured in full compliance with cGMPs, and (3) same standard operating procedures (SOPs) and controls, as well as the same formulation and manufacturing procedures, are used on the test batch(es) and on the full-scale production batch(es).	
		Increase in Ratch cite	 Intended BMR. 1 In-process COA. 1 DP-COA. 1 DP batch stability data (3 M Accelerated and long-term). 1 batch executed BMR & BPR. 1 batch dissolution profile similarity. 	CBE (if proposed equipment does not have same design
			For MR products: Based on (1) equipment used to produce the test batch(es) may vary in capacity, but are of the same design and operating principles; (2) batch(es) is manufactured in full compliance with cGMPs, and (3) same standard operating procedures (SOPs) and controls, as well as the same formulation and manufacturing procedures, are used on the test batch(es) and on the full-scale production batch(es).	and/or principle, then filing category will be either CBE-30/PAS supplement based on
ल	ď		 Intended BMR. 1 In-process COA. 1 DP-COA. 1 DP batch stability data (3 M Accelerated and long-term). 1 batch executed BMR & BPR. 1 batch dissolution profile similarity. Multimedia dissolution profiles similarity. 	data evaluation).
			Based on (1) equipment used to produce the test batch(es) may vary in capacity, but are of the same design and operating principles, (2) batch(es) is manufactured in full compliance with cGMPs, and (3) same standard operating procedures (SOPs) and controls, as well as the same formulation and manufacturing procedures, are used on the test batch(es) and on the full-scale production batch(es).	Annual Report (if proposed equipment does not
		Increase in batch size within 10X of pilot/bio batch.	 Intended BMR 1 In process COA 1 DP COA 1 batch DP stability data (Long-term) Intended BMR 	have same design and/or principle, then filing category will be either CBE-30/PAS supplement based on data evaluation).

	Annual Report	PAS	SE	GE	BE	BE
	3M Accelerated and long-term stability data in new packaging. Packaging material equivalency data. Batch packaging record. Packaging material Certificate of Analysis. Packaging material LOA and food grade certification. DP COA. E/L study (if topical/parenteral products)			 3 M accelerated and long-term stability data. Batch packaging record. Packaging material Certificate of Analysis. 	 Packaging material LOA and food grade certification. FP COA. 	
	Packaging components (primary/secondary) change <u>for solid orals/topical/parenteral</u> if already used in the CDER Approved drug product or the container closure system is already approved in the same ANDA for other strengths of the drug product.	Packaging components (primary/secondary) change <u>for solid orals/topical/parenteral</u> if not previously approved in other CDER products	Addition or deletion of filler in approved pack to avoid brakeage of the drug product during transportation.	Deletion/addition of desiccant.	Change in type of desiccant.	Reduction in quantity of desiccant.
Packaging Material Change		do				
	Group 4: Focus on Post Approval Changes and Change Control Evaluation	2	w		* (P/	13

ories		GMP		
Reporting categories		CBE-30 or being cGMP related practice, Agency may not review such proposal for API.	CBE-30	PAS
pired at the Time of val Filing)		CBE-30 or being cGMF related practice, Agency may not batches trend data. review such proposal for API.	Consecutive batches trend data.	Consecutive batches trend data.
Regulatory Documents Required at the Time of PAF (Post approval Filing)		Trend data to be evaluated	Trend data to be evaluated	Trend data to be evaluated
Change Proposal Evaluation Documents		Drug Substance - specification reduced testing frequency.	Drug Product - in process specification reduced testing frequency.	ixing irotocol).
Type of Change		Drug Substance - specifi	Drug Product - in proces	Stability bracketing/matrixing (Without pre-approved protocol).
Area	vement	API	ć	5
Sr. No.	Cost Improvement	-		٧

mportant Note:

- The reporting category, change evaluation/assessment data, and filing category may vary on case-to-case basis, depending on various factors, such as physico-chemical properties of the molecule and/or drug product characteristics, availability of significant body of information, product and process understanding, whether change is within or outside the established design space, GMP compliance history, potential to impact the identity, strength, quality, purity, or potency of a drug product based on the supportive data generated with proposed change, etc.
- Many more profound post approval changes will be included in this check list, viz. complex dosage forms (Ophthalmic, TDS, Nasal), device component part change, labelling changes, design space, etc.
- Covid -19 pandemic and post approval change management
- Depending on the need of API and/or drug product under Covid-19 situation (Public Health Emergency or Drug Shortage), there may be change/s in the post approval change evaluation requirements (e.g., batches, stability data at the time of filing, exhaustive characterization of API and / or DP, BCS based bio waiver approach etc.), filing category and review classification standard/priority) etc. It is advised to consult the US FDA review discipline and/or drug shortage staff well in advance of any such submissions.





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