	ALTH AND HUMAN SERVICES RUG ADMINISTRATION	
DISTRICT ADDRESS AND PHONE NUMBER US Customhouse, Rm 900 2nd & Chestnut St Philadelphia, PA 19106 (215) 597-4390 Fax: (215) 597-0875	FEI NUMBER 3009590582	6/11/2014*
Industry Information: www.fda.gov/oc/ind		
TO: Jody Grooms, R.Ph., Regional Direct	street ADDRESS	
Central Admixture Pharmacy Services, Inc.	6580 Snowdrift Rd Suite 100	
Allentown, PA 18106	Outsourcing Facility	
This document lists observations made by the FDA representative observations, and do not represent a final Agency determination re observation, or have implemented, or plan to implement, correctiv action with the FDA representative(s) during the inspection or sub questions, please contact FDA at the phone number and address ab	garding your compliance. If you have an object e action in response to an observation, you may mit this information to FDA at the address above	tion regarding an discuss the objection or
DURING AN INSPECTION OF YOUR FIRM WE OBSERVED: OBSERVATION 1 Procedures designed to prevent microbiological contaminat	ion of drug products purporting to be steril	e are not established.
the HEPA bank in the video for workstations (b) (4) the "low/medium risk" area was conducted on a single include the activities of the room and the adjacent work any aseptic connection and there could be up to ^{ope} asep	elow. There is a solid shield angled outwa at head level depending on the height of the um risk" area show patterns of turbulent up nt was observed near the solid shield that is Furthermore, each of the dynami (b) (4) unit at a single workstation in a bay. stations. These studies failed to demonstr	ard from the bank of e operator. Air flow oward air movement in s angled outward from ic air flow studies for These studies did not ate the air flow over
 2) Poor aseptic technique was observed as follows: a) Observed the compounding of Cefazolin on June 6, in bay 1. During this compounding an operator performing at least 1. sterile connects in a downward manner into vials that were positioned on the work surface. The motion blocked the protection of HEPA filtered air. The pharmacist did not intervene until instructed by management. b) Observed the reconstitution of Vancomycin on June 6, in bay 1. During this process the operator performing each sterile connect in a downward manner into vials that were positioned on the work surface. The motion blocked the protection of HEPA filtered air. The pharmacist did not intervene until instructed by management. c) Observed the set-up of 2 0.4 units (workstations (b) (4) on June 6, in bay 0. On the 0.4 unit the manifold is orientated 0.4 units (workstations (b) (4) on June 6, in bay 0. On the 0.4 unit the manifold is orientated 0.4 units (workstations (b) (4) on June 6, in bay 0. On the 0.4 unit the manifold is orientated 0.4 units (workstations (b) (4) on June 6, in bay 0. On the 0.4 unit the manifold is orientated 0.4 units (workstations (b) (4) on June 6, in bay 0. On the 0.4 unit the manifold is orientated 0.4 units (workstations (b) (4) on June 6, in bay 0. On the 0.4 unit the manifold is orientated 0.4 units (workstations (b) (4) on June 6, in bay 0. On the 0.4 unit the manifold is orientated 0.4 units (workstations (b) (4) on June 6, in bay 0. On the 0.4 unit the manifold is orientated 0.4 units (workstations (b) (4) on June 6, in bay 0. On the 0.4 unit the manifold is orientated 0.4 units (workstation of HEPA filtered air. In addition, the operator in workstation 0.4 units (b) (4) component was observed in a downward motion into the component that was positioned on the workstation. This blocked the protection of HEPA filtered air. d) In the "high risk" area on June 4 an operator who was training personnel was observed placing the handles of the 		
SEE REVERSE OF THIS PAGE Akilah K. Green, Investigato	ator Andra Mule 6/11/12 tor achilah M. Hran 6/	06/11/2014
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DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION		
DISTRICT ADDRESS AND PHONE NUMBER US Customhouse, Rm 900 2nd & Chestnut St	06/04/2014 - 06/11/2014*	
Philadelphia, PA 19106 (215) 597-4390 Fax: (215) 597-0875	FEINUMBER 3009590582	
Industry Information: www.fda.gov/oc/indu		
TO: Jody Grooms, R.Ph., Regional Directo		
FIRM NAME Central Admixture Pharmacy Services,	STREET ADDRESS 6580 Snowdrift Rd	
Inc.	Suite 100	
CITY STATE ZP CODE COUNTRY Allentown, PA 18106	Outsourcing Facility	
 clamp under the balance between uses which placed the exposed connection adjacent to the balance between filling units. Also observed the operator infrequently sanitizing hands when re-entering the ISO 5 area and speaking in direct proximity to the ISO 5 while training. e) Sterile connects into IV bags were not made with proper aseptic technique: IV bags were positioned at roughly a 15 degree angle when the connections were made, IV bags that were laid upon the work surface in close proximity to equipment, and sterile connections into the IV bags were seen taking quick movements and twisting to obtain the connection. 		
3) The media fill simulations for the process in the "low/medium risk" area do not include the activities of the ISO 7 room. The ISO 7 area has bays and a common area in the back of the room that services (b)(4) bays. There are an material transfer bays in the common area. Each bay can support up to filling operations and operators at a time. The ISO 7 room could have up to operators and filling operations occurring at a time. The media fills are conducted independently in each bay. The media fills included operators in the simulation, but did not include media to challenge all workstations. Generally, only workstations were represented in the simulations.		
4) In the "low/medium risk" area, observed a media fill to qualify individuals on the (b)(4) equipment. (b) (4) was added to the media in the process simulation. There was no data available to support that the commercially obtained media was not impacted by the dilution with (b) (4)		
5) The units produced in a media fill are not reconciled for full accountability.		
6) In the benches (b) (4) during the production of the Cardioplegia Solution an employee was observed on multiple occasions not wiping down IV bags with (0)(4) prior to placing them in the ISO5 hood. Also, the employee proceeded to label the filled unwiped bags within the ISO5 hood. This occurred during the production of the following lots of Cardioplegia Solution: Lot 37-42040 Lot 37-42188 Lot 37-42117		
 7) Between the dates 2-28-14 and 4-30-14 no media qualification (growth promotion) or sterility testing was performed for each of the lots of media listed below. <u>TSA Agar Strips</u> (b) (4) <u>TSA Contact Plates</u> 		
SEE REVERSE OF THIS PAGE Akilah K. Green, Investigator AKG 06/11/201		
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DEPARTMENT OF HE	CALTH AND HUMAN SERVICES	
FOOD AND D	DRUG ADMINISTRATION DATE(S) OF INSPECTION	
US Customhouse, Rm 900 2nd & Chestnut St	06/04/2014 - 06/11/2014*	
Philadelphia, PA 19106	FEINUMBER	
(215) 597-4390 Fax: (215) 597-0875	3009590582	
Industry Information: www.fda.gov/oc/ind	dustry	
TO: Jody Grooms, R.Ph., Regional Direc	tor, Pharmacy Operations	
FIRM NAME		
Central Admixture Pharmacy Services,	6580 Snowdrift Rd	
Inc.	Suite 100 Type establishment inspected	
	Outsourcing Facility	
Allentown, PA 18106	outsourcing raciity	
(b) (4) <u>TSA Settle Plate</u> (b) (4)		
<u>TSB 100mL Vials</u> (b) (4) TSB 500mL Bags		
(b) (4)	o date revealed these lots were tested for sterility and growth	
OBSERVATION 2		
Clothing of personnel engaged in the manufacturing, proce the duties they perform.	essing, packing, and holding of drug products is not appropriate for	
of the growing room prior to crossing over to the clean side 4000516, Gowning Requirements- LHV. Also, the operate observed with exposed skin around their eyes and on their	ing the operators placed the sterile hoods on while on the dirty side e of the gowning room. This was done per procedure, SOP-CAPs- or's gowning does not fully cover their face. Operators were cheeks between the hood and the face mask. SOP-CAPs-4000516, June 4 th , a gown without protective wrap from the supplier was	

OBSERVATION 3

observed hanging on the rack in the gowning room.

Buildings used in the manufacture, processing, packing or holding of drug products are not maintained in a clean and sanitary condition.

Specifically, rooms WS1 and WS2 is where the injectable drugs Sodium Phosphate, Tromethamine and MSA/MSG are produced and final packaged. WS1 is used for batch (b) (4) and WS2 is used for final filling of during the production of these products. WS1 is classified ISO7. WS2 is classified ISO7 and houses (b) (1) ISO5 hoods. During the production of the high risk products the following was observed in rooms WS1 and WS2:

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	Anita R. Michael, Investigator Q.L.	DATE ISSUED

	DEPARTMENT OF HEA	LTH AND HUMA		
DISTRICT ADDRESS AND PHO	NE NUMBER		DATE(S) OF INSPECTION 06/04/2014 - 06/11	(2014+
Philadelphia	se, Rm 900 2nd & Chestnut St PA 19106		06/04/2014 - 06/11 Feinumber	/2014
(215) 597-43	90 Fax: (215) 597-0875	istry	3009590582	
	ormation: www.fda.gov/oc/indu			
TO: Jody GI	cooms, R.Ph., Regional Directo	STREET ADDRESS	cy Operations	
Central Admi	xture Pharmacy Services,	6580 Snow		
INC . CITY, STATE, ZP CODE, COU	NTRY	Suite 100 TYPE ESTABLISHMEN		
Allentown, P	A 18106	Outsourci	ing Facility	
A used dirty mop In WS2 (ISO 7 ar Inside the ISO 5 f On a shelf, direct	th an adulterant. The graduated cylinder is a and pile of unwrapped sterile wipes stored d ISO5 during production) wood during production it was observed that possibly blocking the laminar air flow y under the ISO 5 hood certain items were Also, e d during the production of high risk sterile	uncovered and t there were app w path. being stored. E extra(b) (4)	open to the ISO 7 environment. proximately (b) (4) Extra (b) (4) were located on this	shelve.
1 - 20 - 20 1 - 20 Million - 20 - 20 - 20 - 20 - 20 - 20 - 20 - 2	ns necessary to prevent contamination or n	n de l'arrente - a de sola alta da la deserva en e		
671 8. 3 Amerika Marika Marika	g areas are deficient regarding the system f			
	ally, the fingertip monitoring was observed k" area on June 4, 2014. The finger tips wa			tion of the
througho pressure Magneho mistakes where pr authorize (housing	differentials for the ISO 7 clean room (hou out the facility utilizing magnehelic gauges differential readings are to be documented elic Gauge Monitoring Log. Review of this and was illegible. Specifically, cross outs a essure readings are required to be read and the comparent of the second second second ed. Additionally, the gauge numbers were n all of the ISO5 hoods) and ISO 8 areas. Ac us monitoring readings for review. Also, m	#'s on the CAPS d log from 03/03 and annotations were changed ot identified in iditionally, the	ocument -4000117, titled Comp /14 through 05/01/14 contained were made of the ISO room loo by personnel without proper cl the logs for pressures readings firm did not have any backup re	(b)(4). All ounding Room numerous cations. Locations hange control or between the ISO 7
continuo		anuar readings	are taken(0) (4)	cords such as
Aseptic processin aseptic conditions	areas are deficient regarding the system f			
	employee(s) Signature	or cleaning and	disinfecting the room and equip	
Aseptic processin aseptic conditions	employee(s) signature Anita R. Michael, Investiga Tamara L. Ely, Investigator	or cleaning and	disinfecting the room and equip	oment to produce

		T OF HEALTH AND HUMAN SERV	VICES
DISTRICT ADDRESS AND PHON	ENUMBER	DA	TE(S) OF INSPECTION
	IS Customhouse, Rm 900 2nd & Chestnut St		6/04/2014 - 06/11/2014*
Philadelphia, (215) 597-439 Industry Info	0 Fax:(215) 597-0875	30	009590582
	ormation: www.fda.gov/ LTO WHOW REPORT ISSUED	Director, Pharmacy Op	erations
FIRM NAME		STREET ADDRESS	- VC254200
Central Admix Inc.	ture Pharmacy Service	es, 6580 Snowdrift Suite 100	
CITY, STATE, ZIP CODE, COUNT	RY	TYPE ESTABLISHMENT INSPECT	60
Allentown, PA	18106	Outsourcing Fa	acility
and prior brackets. confirmed 2) Bulk steri (b) (4) 3) Transfer of have visib 4) Specifical Fridays. (TPN are a requires th for effecti does not r 4000515 v	to the (b) (4) cleaning, upon rec Residue was noted in (b) (4) I that the label was from a brack le (b) (4) is applied to product and and operators noted degradation arts staged to enter the ISO 7 m le residue. ly, The beta-lactam Cefazolin a b) (4) is not dedicated to beta-lac lso produced in (b) (4) The Ant he use (b) (4) ve cleaning and the deactivating effect the current validated clean version-6) and compounding rec ic cleaning SOP-CAPS 40005 I b) (4)	and a label with signs of weat and a label with signs of weat et that holds up the IV poles. the facility surfaces from (b) (4 . Also, there are no construction of the second method with use. aterial transfer area for transfer the ntibiotic syringe is produced in the ctam Cefazolin. Other low risk politic Cleaning Method Validates beta-lactam products. Cleaning ning study report # V0376. Reviewed cords for Cefazolin only docume 5 version-6 titled Cleaning Processor	to the ISO 7 cleanroom were observed to the non-dedicated (b) (4) (ISO-5) hood of roducts such as Oxytocin, Heparin and tion final report # V0376 dated 05/01/11 records for (b) (4) (b) (4) ew of the current cleaning SOP (CAPS in the use (b) (4) . Additionally, the edure does not include instructions for tionally, there is no record in the daily,
conformance to the Specifically, 100 % the labels and then visual inspection w	of drug product for distribution prior to release. visual inspection is performed viewed each unit produced und as observed to take around se se performed (b) (4)	by the pharmacist that supervise er the lighting conditions of the conds for each unit against a bla units were (b) (4) causing bubb	eratory determination of satisfactory es the operators. The pharmacist review room with no additional illumination. T ck and white background. The quality oles and operators viewed each unit for
OF THIS PAGE	Akilah K. Green, Inv	estigator AK 6	06/11/20
		INSPECTIONAL OBSERVAT	NAMES OF THE OWNER OWNE

	ALTH AND HUMAN SERV RUG ADMINISTRATION	lices
DISTRICT ADDRESS AND PHONE NUMBER	DAT	E(S) OF INSPECTION
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Philadelphia, PA 19106	FEI	NUKBER
(215) 597-4390 Fax: (215) 597-0875		09590582
Industry Information: www.fda.gov/oc/ind	lustry	
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED		
TO: Jody Grooms, R.Ph., Regional Direc	or, Pharmacy Ope	erations
FIRM NAME	STREET ADDRESS	
Central Admixture Pharmacy Services,	6580 Snowdrift	Rd
Inc.	Suite 100	
CITY, STATE, 21P CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTE	0
Allentown, PA 18106	Outsourcing Fa	acility

OBSERVATION 6

The flow of components, drug product containers, closures, and drug products though the building is not designed to prevent contamination.

Specifically, in the warehouse where sterile components and non-sterile components are received bags of solutions were observed being removed from the tertiary and secondary packaging and placed on warehouse carts. For (b) (4) Normal Saline lot #(b)(4) expiration of 04/2016 the primary packaging was exposed to the unclassified warehouse and touching the warehouse carts. These bags of Saline solutions were then sprayed down with (b) (4) within the warehouse and left uncovered exposed to the environment. Multiple large dumpsters were observed adjacent or near to the wetted Saline bags and carts. These components then enter into the manufacturing areas (ISO8, ISO7 and ISO5 environments).

Additionally, warehouse carts are not labeled as dedicated to the warehouse. Similar carts were observed in the ISO8, ISO7 and ISO5 areas.

Also, the multiple lights in the warehouse are not covered to prevent broken glass from coming in contact with components stored in the warehouse. Multiple component boxes were not closed or sealed throughout the warehouse. Also debris and broken pallets were observed in the warehouse.

OBSERVATION 7

Written records of investigations into unexplained discrepancies do not always include the conclusions and follow-up.

Specifically, alert levels limits were exceeded in the following critical ISO5 areas or during personnel monitoring: Right Glove date of the exceeded alert 01/16/14 (result 2 cfu) and re-tested 01/29/14 Bench Wi Viable Air date of the exceeded alert 01/17/14 (result 1 cfu) and re-tested 01/24/14 Bench Wi Viable Air date of the exceeded alert 03/06/14 (result 1 cfu) and re-tested 03/07/14 Bench Wi Viable Air date of the exceeded alert 03/14/2014 (result 1 cfu) and re-tested 03/21/2014

Bench Viable Air date of the exceeded alert 04/05/14 (result 1 cfu) and re-tested 04/11/2014

All alerts results were classified as invalid (non-confirmed). The firm re-tested the same areas and upon second re-testing received passing results. Re-testing was conducted (b) (4) the later for 4 of the 5 alerts listed above. There were no investigation reports completed for the alerts. The SOPs are incomplete and do not describe how and when re-testing is to be performed and documented. Additionally, corrective actions or preventive actions were not implemented.

	Anita R. Michael, Investigator QLM	DATE ISSUED
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Philadelphia, PA 19106	FEI NUMBER	
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TO: Jody Grooms, R.Ph., Regional Directo	or, Pharmacy Operations	
FIRM NAME	STREET ADDRESS	
Central Admixture Pharmacy Services,	6580 Snowdrift Rd	
Inc.	Suite 100	
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED	
Allentown, PA 18106	Outsourcing Facility	

OBSERVATION 8

Batch production and control records do not include complete information relating to the production and control of each batch.

Specifically, while observing the "high risk" production of the sterile drug product, Sodium Phosphate, lot (b)(4), on June 6, 2014 components were staged on the table in the compounding room near the (b) (4) in unmarked plastic bags. The bags did not have the component name or item code, receiving or control number, weight or measure, or identify the batch for which the component was dispensed. While being observed the operator charged the unmarked components to the batch. A second operator did not verify the components or the addition. The operator who charged the component did not document the addition of the component in the batch record. The operator began the (b) (4) of the batch and did not document the time the (b) (4) commenced. A review of the executed record showed the operator documented the time in a non-contemporaneous manner. Also, the master batch records for two other "high risk" products, MSA/MSG and Tromethamine, do not require dispensed components to be identified.

OBSERVATION 9

There is no written testing program designed to assess the stability characteristics of drug products.

Specifically, stability testing is not conducted on Vancomycin or Cefazolin (expiry of 45 and 30 days refrigerated, respectively) which are transferred to less protective plastic container closures from glass commercial containers. There are no ongoing stability studies for any products. The active ingredient for Potassium Sulfate was not measured in the January 2009 stability study.

OBSERVATION 10

Each lot of is not withheld from use until the lot has been sampled, tested, examined, and released by the quality control unit.

Specifically, CoA's for components, containers and closures, or disposable equipment used in "low/medium risk" area are not reviewed by QA. QA does review CoA's for components, containers and closures, or disposable equipment used in the "high risk" area. There was no rational provided for the difference in practice.

OBSERVATION	11
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The labels for the drug products you produce do not contain information required by section 503B(a)(10).

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DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION		
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US Customhouse, Rm 900 2nd & Chestnut St	06/04/2014 - 06/11/2014*	
Philadelphia, PA 19106 (215) 597-4390 Fax:(215) 597-0875	3009590582	
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TO: Jody Grooms, R.Ph., Regional Direct	or, Pharmacy Operations	
Central Admixture Pharmacy Services,	6580 Snowdrift Rd	
Inc.	Suite 100	
CITY STATE ZIP CODE. COUNTRY Allentown, PA 18106	Outsourcing Facility	
Specifically, the statement, "This is a compounded drug" is Labels for the following drug products do not contain this s	not present on your drug product labels as required in the statute. tatement:	
 Magnesium Sulfate 1 g in dextrose 5% 50mL 		
 Oxytocin 15 units in 0.9% sodium chloride 250 ml 		
 Bupivacaine PF 0.25% 		
Epinephrine 2 mg in dextrose 5% 250 ml		
* DATES OF INSPECTION: 06/04/2014(Wed), 06/05/2014(Thu), 06/06/2014(Fri), 06/09/2014	(Mon) 06/11/2014/Wed)	
0004/2014(Wea), 00/05/2014(11/2), 00/00/2014(11/), 00/05/2014	(initial), 0011/2014(wea)	
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EMPLOYEE(S) SIGNATURE		
Anita R. Michael, Investig		
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