

**ORDER**

**ORDER**  
ZDC ARTCC  
7110.65V

**WASHINGTON ARTCC (ZDC)**  
**STANDARD OPERATING PROCEDURES**



**May 13, 2019**



# RECORD OF CHANGES

<b>BULLETIN NUMBER</b>	<b>SUBJECT</b>	<b>AUTHORIZED BY</b>	<b>DATE ENTERED</b>	<b>DATE REMOVED</b>
7110.100	Initial	RR	12/21/16	05/13/19
7110.101	Updated LOA table	RS	05/13/19	--

May 13, 2019

ZDC ARTCC 7110.65V



**VIRTUAL AIR TRAFFIC SIMULATION NETWORK**  
VATUSA DIVISION – WASHINGTON ARTCC

**SUBJ:** ZDC 7110.65V

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This order provides direction and guidance for the day-to-day operations of the Washington ARTCC (En-Route Facility) and prescribes air traffic control procedures and phraseology. Controllers are required to be familiar with the provisions of these procedures.

This document is only to be used in a simulated environment. This document shall not be referenced or utilized in live operations in the National Airspace System (NAS). The Washington ARTCC, VATUSA, and VATSIM do not take any responsibility for uses of this order outside of the simulation environment.

/Rick Rump/

Air Traffic Manager  
Washington ARTCC

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## CHAPTER 1. POSITIONS

The following callsigns and frequencies shall be used when working positions at ZDC.

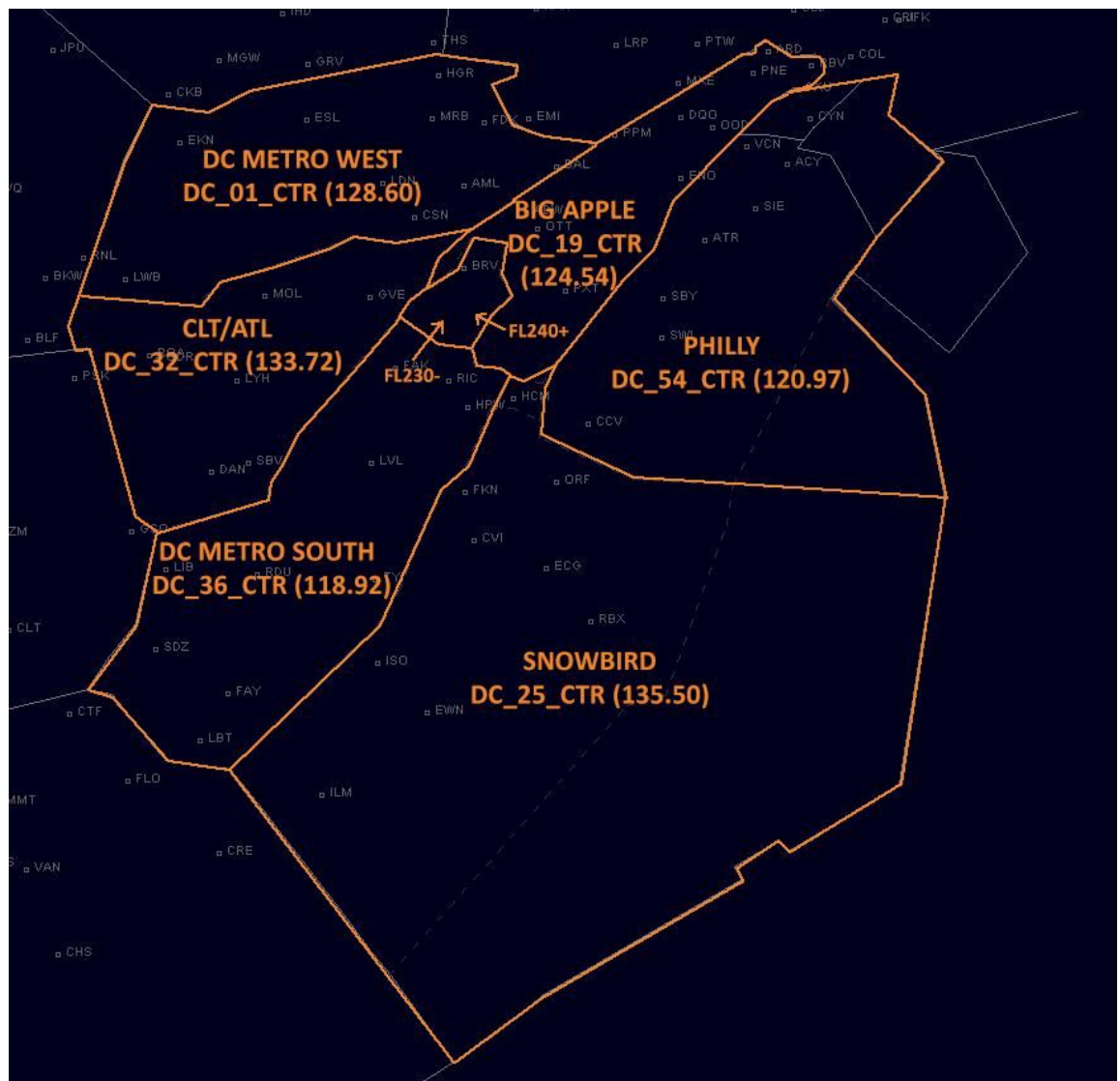
Identifier	Position/Notes	Frequency	VOX Channel
DC_CTR	Combined, no split	133.720	ZDC_32
DC_01_CTR	Metro West	128.600	ZDC_01
DC_19_CTR	Big Apple	125.450	ZDC_19
DC_25_CTR	Snowbird	135.500	ZDC_25
DC_32_CTR	CLT/ATL	133.720	ZDC_32
DC_36_CTR	Metro South	118.920	ZDC_36
DC_54_CTR	Philly	120.970	ZDC_54

Note: Any non-primary sector shall not be opened without prior approval by the ATM, DATM, TA or CIC.

Note: Typically, when split, ZDC uses “directional” identifiers (N, S, NE, etc.) instead of the sector numbers. See preferred splits for more information.

Note: High/Low splits are also valid, and the first letter in the middle identifier should be H or L accordingly. High splits are FL240+, low are FL230-.

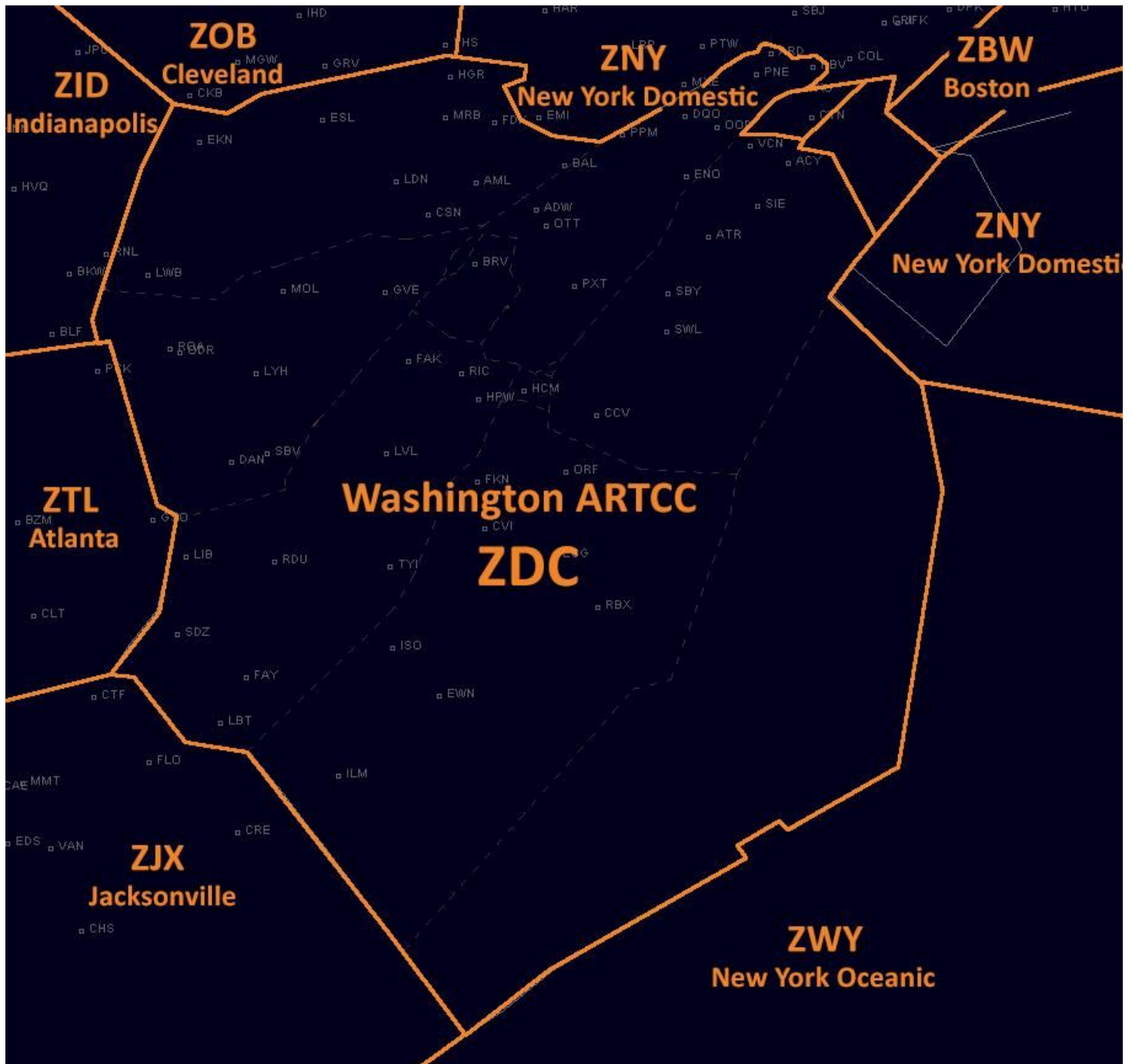
### ZDC AREAS



## CHAPTER 2. AIRSPACE/GENERAL

### 2-1. AIRSPACE.

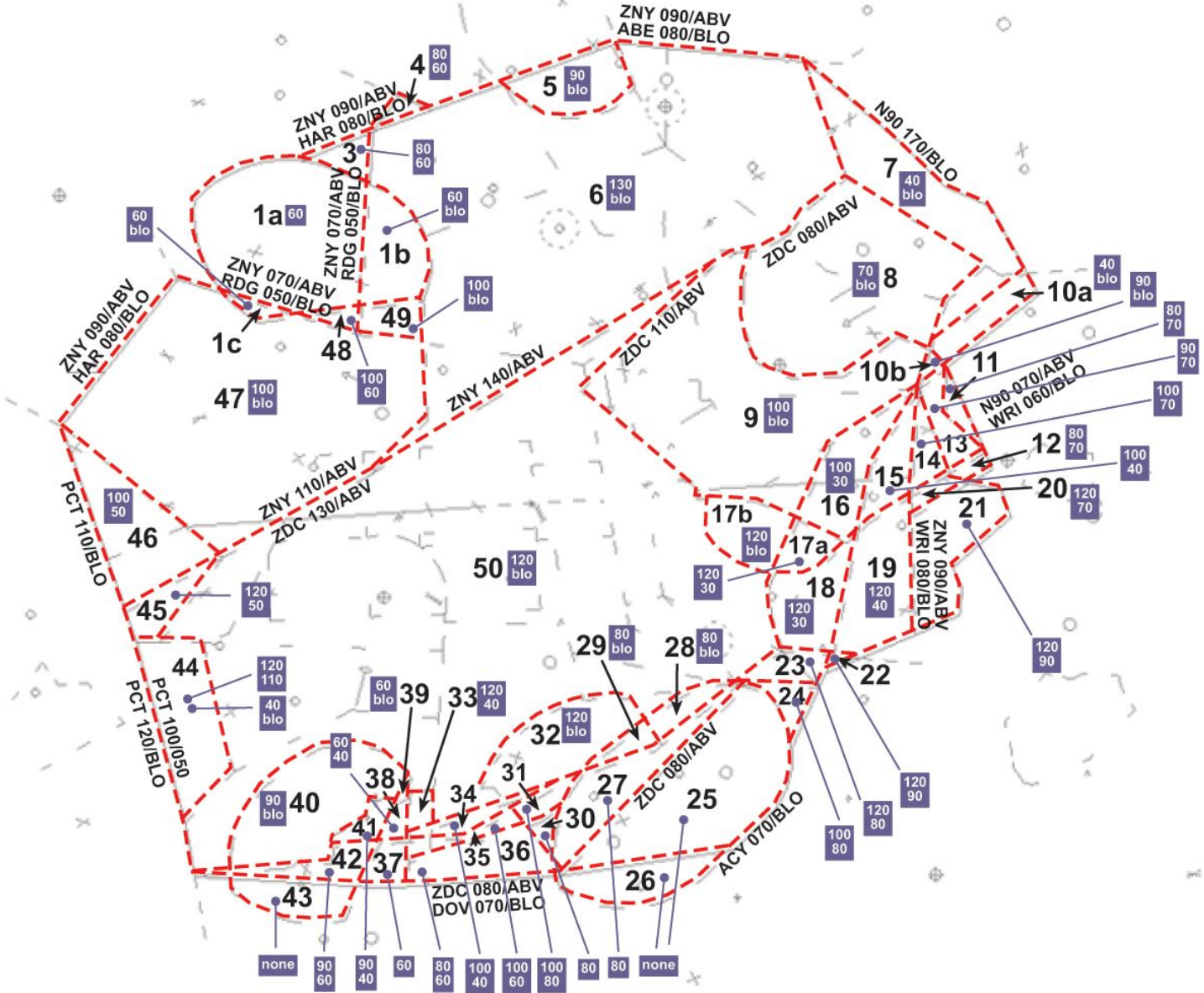
- a. Washington Center (ZDC) is responsible for all controller airspace (up for FL600) within the ARTCC that is not being provided services by another controller.
- b. All en-route controllers should be familiar with all procedures relating to adjacent ARTCC's (ZNY, ZBW, ZJX, ZTL, ZID, ZOB), including Letters of Agreement (LOA's) with said center facilities and their respective TRACONS.
- c. ZDC airspace includes several shelves to the North. Airspace delegation is included in the appendices



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PHL TRACON is delegated the following airspace.

<p><b>Areas 1a, 1b, 1c and 3:</b> When ZNY uses the BUNTS HPA, airspace is entirely released to ZNY.</p>	<p><b>Areas 10a and 10b:</b> 3000' to SFC released to McGuire RAPCON for Trenton - Robbinsville (N87) IFR operations. Typically blanket release.</p>	<p><b>Areas 17a and 17b:</b> 12,000' to 10,000' is released to ZDC when ZDC uses HOLEY HPA.</p>
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**Areas 37 to 43:**  
PAATS holding pattern from the highest altitude released by ZDC to 10,000'. Aircraft shall depart HPA at or below 12,000'.

**Areas 29 and 32:**  
3,000' to SFC is released to Atlantic City TRACON when Rainbow Area is released.

**Areas 23-25, 27, 30-31:**  
8,000' to 6,000' is released to PHL when Newfield Area is released by Atlantic City TRACON.

**Areas 26 to 29:**  
VCN/JIIMS HPA from the highest altitude released by ZDC to 9,000'. Aircraft shall depart HPA at or below 12,000'.

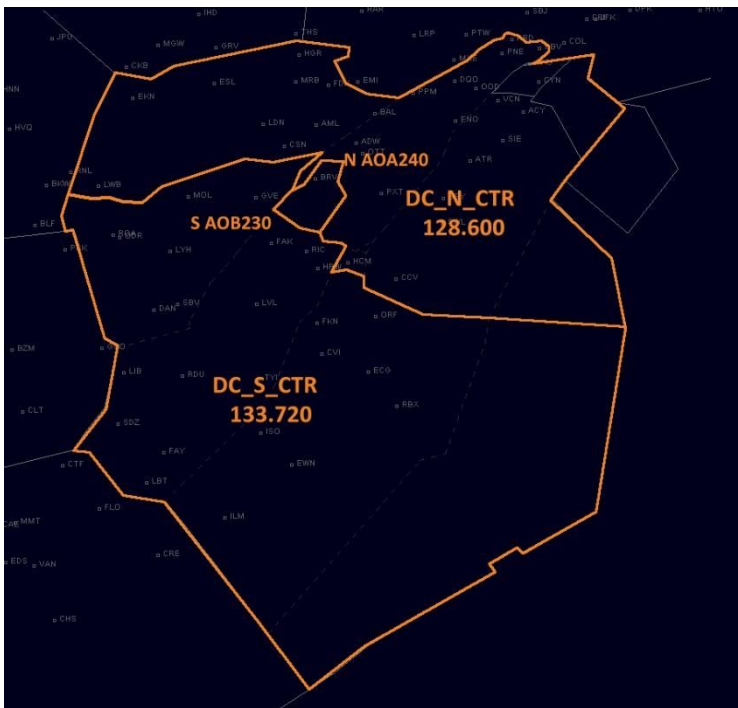


### 2-2. SECTORS, AREAS AND SPLITS

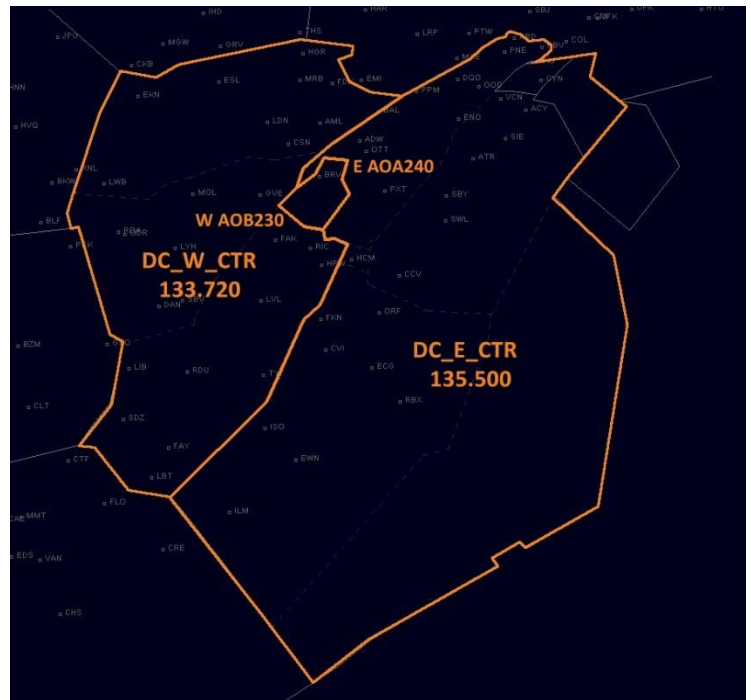
- a. When Washington Center is combined, it will use the CLT/ATL area GVE32 sector frequency of 133.720, logon callsign of DC\_CTR, and a voice channel of ZDC\_32.
- b. Sectors are typically only split for major events, although they may be split for training purposes or other reasons. The most common splits are shown below.
- c. Until further notice, reference old ZDC SOP for individual sectorization use only (i.e. OOD18 sector, etc)

#### TWO WAY SPLITS

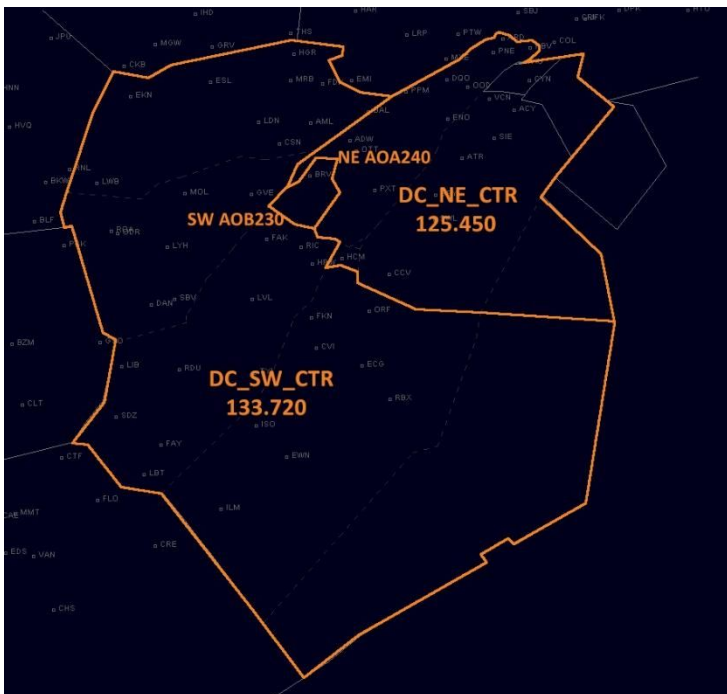
##### North/South



##### East/West



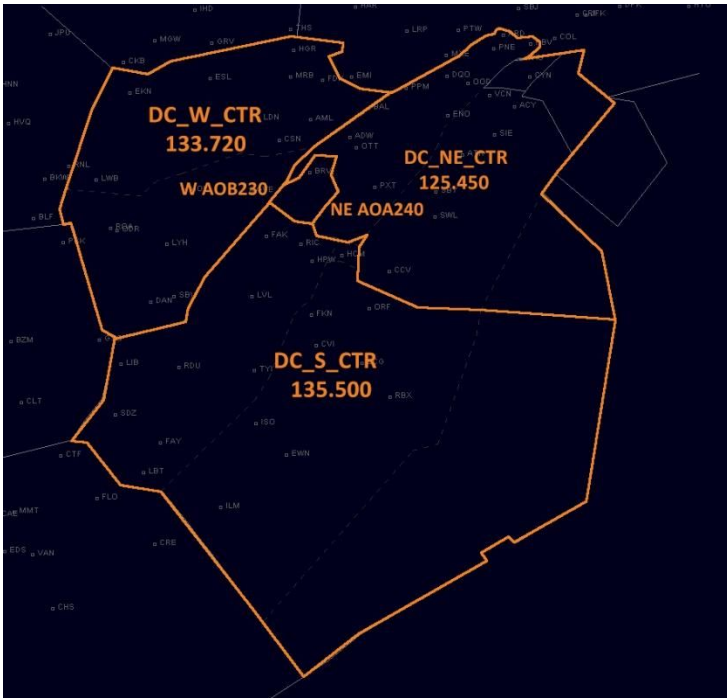
##### New York Heavy



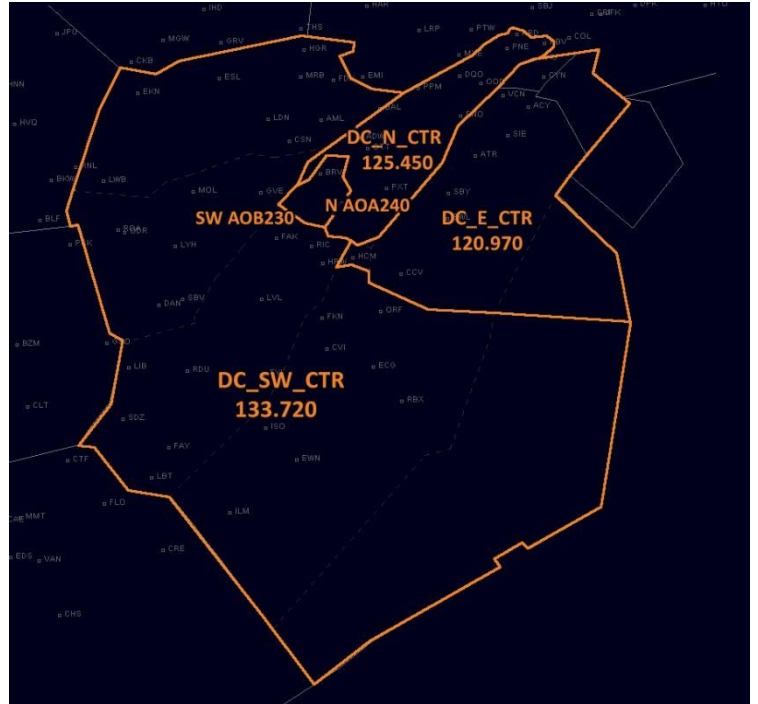
NOTE – Other splits may be coordinated for events on a case by case basis. These are simply recommended splits that are used for most events. Splits of 4+ people will also need to be coordinated individually. It is recommended to decide the splits

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**3-Way Splits – Normal**



**New York Heavy**



**2-3. SHELVES**

- a. ZDC shares multiple shelves to the north with ZNY. The following diagram does NOT include PHL TRACON airspace owned by ZNY if PHL is offline. See below for PHL airspace delegation.



**4-4. DATABLOCK FORMATTING**

- a) Aircraft climbing to an altitude other than their filed cruise altitude;
  - I. If the restriction is in accordance with an LOA, no entry
  - II. If the restriction is non-standard, a temporary altitude (F8)
- b) All descents should be entered using the hard altitude function (F5)
- c) Scratchpad entries shall only be used except if specific control instructions differing from SOP/LOA have been issued. These instructions shall be verbally coordinated unless standing verbal coordination has been effected.
  - I. Indicated speeds (e.g., "210", "270+")
  - II. "M" for Mach speed restrictions (e.g., "M81", "M78+")
  - III. "H" for heading assignments (e.g., "H230", "H15L" (fifteen degrees left of track)) e.
- d) When an aircraft is leaving our ARTCC and the adjacent facility is offline, remove any scratchpad entries and temporary altitudes.

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#### **4-5. ROUTES**

- a)** Clear jet aircraft that have RNAV capability and an updated navigation database via an RNAV STAR (ANTHM#, CAPSS#, CAVLR#, MALNR#, etc.) as filed or appropriate to the route of flight.
- b)** Clear non-jet aircraft, non-RNAV aircraft, and aircraft without a current navigation database via a conventional STAR (EMI#, IRONS#, COATT#, etc.) as filed or appropriate to the route of flight.
- c)** For aircraft that are not able to fly any of the arrival procedures, attempt to assign a route that closely matches the lateral path of the appropriate STAR. Do not allow these aircraft to fly an outdated arrival procedure.

## CHAPTER 3. ARRIVAL PROCEDURES

- a) On “descend via” STARs into PCT and RDU, ZDC shall assign “descend via” and a landing direction. The runway transition will be assigned by the TRACON.
- b) On all other STARs or routes, ZDC shall issue or descend to the crossing restrictions outlined in the next section of this document.

### 3-1. POTOMAC TRACON

ROUTE	TYPE	LOCATION	INSTRUCTION	HANDOFF
<b>LANDING ADW + APPROPRIATE SATELLITES</b>				
THHMP VUDOO#	Jet	THHMP	FL210	
		GOLOE	13000	
CIBAC VUDOO#		CIBAC	17000	
THHMP VUDOO#	Prop	HANKC	13000	
J174 ATR V308...	Jet	ZIZZI	Lowest usable FL	
		ATR	16000	
ATR V308 BILIT...	Prop		12000	
	Jet	BILIT	11000, 250 IAS	
	Prop	HOTTZ	8000	
RIC V16 COLIN	All	RIC	13000	
<b>LANDING BWI + APPROPRIATE SATELLITES</b>				
THHMP/HBUDA RAVNN#	Jet	75nm S THHMP/HBUDA	FL310	
RAVNN#	Jet		Descend via	
RIC RIPKN#	Jet	65nm S RIC	FL310	
RIPKN#	Jet		Descend via	
J174 ATR	Jet	ZIZZI	Lowest usable FL	
ATR V308...	Jet	ATR	16000	
	Prop	ATR	12000	
V308 BILIT	Jet	CHOPS	11000, 250 IAS	
LAFLN MIIDY#	Jet	CHOPS	11000, 250 IAS	
ANTHM#	Jet		Descend via	
EMI#	Jet	MUMSY/BUBBI	15000	
	Prop		9000	
PXT V93 GRACO	All	PXT	13000	
ENO V268 ENO	Prop	10 E ENO	8000	
V44/V166/V214	Prop	25 W MRB	AOB 15000	
<b>LANDING DCA + APPROPRIATE SATELLITES</b>				
CAPSS#	Jet		Descend via	LURAY
NUMMY#/FRDMM#	Jet		Descend via	LURAY
TRUPS#	Jet		Descend via	LURAY
IRONS#	Jet	RIC	FL220	
		PEGBY	13000	OJAAY

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	Prop	10 S EPICS	13000	OJAAY
	Prop (Sats only)	RIC	13000	
J174	Jet	ZIZI	Lowest usable FL	
ATR	Jet	ATR	16000	
	Prop		12000	
V308 BILIT	Jet	BILIT	11000	
	Prop	HOTTZ	8000	
CSN or TIKEE#	All	PCT Boundary	7000-9000	
<b>LANDING IAD + APPROPRIATE SATELLITES</b>				
CAVLR#	Jet		Descend via	
RIC COATT#	Jet	RIC	FL220	
FAK COATT#	Jet	FAK	FL230	
COATT#	Jet	OGATE	13000	
	Prop	10nm S NABBS	13000	
MOL WIGOL#*	All	MOL	AOB FL200	
GIBBZ#	Jet		Descend via	
DOCCS#	Jet	SEALZ	FL240	
		DOCCS	11000, 250 IAS	
DOCCS# or LDN	Prop	DOCCS/LDN	7000	
	Jet	TRSTN#		
LORAA TRSTN#	Jet	LORAA	FL190	
	Prop	LORAA	15000	
TRSTN#	Jet	JOHOF	13000	
	Prop	PERKN	13000	
FAK V155 ROOKY CSN	All	ROOKY	13000	
V268 BAL V214MRB	Prop	10 E ENO	8000	
<b>LANDING RIC + APPROPRIATE SATELLITES</b>				
RDU	Jet	RDU	FL240	
KELCE/NEAVL DUCSX#	Jet	KELCE/NEAVL	11000	
SPIDR#/POWTN#	Jet		Descend via	
SWL ARICE JAMIE	Jet	60nm NE SWL	AOB FL260	
SWL ARICE JAMIE or SBY V1 JAMIE	Jet	JAMIE	12000	
J14/Q60	Jet	JAXSN	AOB FL190	
J14 or LVL RIC	Jet	40nm S RIC	11000	
V16 RIC	Jet	COLIN or 40nm NE RIC	13000	
V20	Jet	85nm SW RIC	AOB FL190	
MOL FAK or LYH FAK	Jet	10nm W FAK	11000	

## 3-2. ZDC (OTHER THAN PCT)

LANDING	TYPE	ROUTE	LOCATION	RESTRICTION	
ACY	All	J51/J42/J150 OTT SIE	OTT	FL240	
		OTT SIE	60nm W SIE	15000	
		GARED SIE ACY	5nm S GARED	13000	
		SWL V139 SWL	RADDS or 30 S SIE	AOB 11000	
		SIE	SIE	8000	
DOV	All	RIC V16 PXT	RIC	FL230	
		V16 PXT	PXT	13000	
		SBY ENO#	20nm N SBY	11000	
		SBY V29 ENO	20nm N SBY	11000	
		SIE	ACY Boundary	8000	
		J147 CSN OTT V379 ENO	CSN	FL190	
		CSN ENO#	CSN	FL190	
		MRB ENO#	15nm W MRB	15000	
	Prop	V143 MRB V213 DQO	PCT Boundary	7000-9000	
		V44/V166/V214	25nm W MRB	11000	
RDU	Jet	HPW	10nm N HPW	AOB FL220	
		MALNR#		Descend via	
		J174 SWL KAROO#	60nm NE SWL	AOB FL320	
		KAROO#		Descend via	
		TYI BLOGS#	10nm NE TYI	14000	
		BLOGS#		Descend via	
		ALDAN#		Descend via	
		BUZZY#	BUZZY	RWY 5 – 10000, 250 IAS RWY 23 – 12000	
		ARGAL#	ARGAL	RWY 5 – 12000 RWY 23 – 10000, 250 IAS	
	TProp	ARGAL#	ARGAL	8000	
	Jet	BRADE#	BRADE	11000, 250 IAS	
		SBV#	ALDAN	RWY 5 – 12000 RWY 23 – 10000, 250 IAS	
	TProp	SBV#	ALDAN	8000	
	Prop	Direct	RDU Boundary	AOB 7000	
	ORF + Sats	Jet	STEIN	STEIN	13000
			TERKS#	20nm W FAK	FL240
			RUSSL	16000	
			TERKS	14000	
DRONE#			BROZE	FL190	
			DRONE	11000	
Prop		DRONE#	DRONE	AOB 9000	
Jet		SWL	60nm NE SWL	AOB FL260	

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		SBY V1 CCV or SWL CCV	JAMIE or 10nm N CCV	10000
ORF Sats	Jet	COLIN	COLIN	13000
		J24 HCM or FAK RIC HCM	RUSSL	13000
GSB	All	EEGEL/TBOLT/PHNTM	EEGEL/TBOLT/PHNTM	11000
		ISO	ISO	11000
ROA + Sats	All	All	ROA 30 DME	11000
LYH + Sats	All	All	LYH 30 DME	11000

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## 3-3. ZNY

LANDING	TYPE	ROUTE	LOCATION	RESTRICTION
EWR	Jet	DYLIN#/PHLBO#		Descend via
	Prop	ENO V29 DQO (V479 RUUTH V123 RBV or RUUTH#)	20nm N SBY	15000
		RUUTH#	LOUIE	13000
	Turboprop	ENO V29 DQO V3 SBJ	BLARE	11000
	Prop	ENO V29 DQO V3 SBJ	DOV Boundary, HO to DOV	9000
TEB, MMU, CDW	Prop	SWANN MAZIE#	SWANN	13000
		PXT MAZIE#	LOUIE	13000
	Jet	PXT JAIKE#	PEEDS	FL240
			JAIKE	13000
	Jet	OTT J51 DQO V3 SBJ	SWANN	FL240
	Jet	BRV AML J227J49 J70 LVZ LVZ#	ZNY Boundary	AOB FL370
	Jet	ENO V29 DQO V3 SBJ	20 N SBY	AOB 15000
LGA	Jet	KORRY#		Descend via
	Prop	ENO V29 DQO GATBY# Or ENO V29 DQO V479 RUUTH V123 PROUD	20nm N SBY	15000
	Prop	GATBY#	LOUIE	13000
JFK, FRG, Sats	Jet	J121 SIE CAMRN#	RADDS or 30nm S SIE	AOB FL370
	Jet	CAMRN#	HOGGS	Lowest useable FL
	Jet	V16 GARED V229 ACY	5nm S GARED	AOB 17000
	Prop	SIE V44 PANZE	ZNY Boundary	AOB 15000
ISP, HWV	Jet	J121 SIE V139 SARDI CCC	RADDS or 30nm S SIE	AOB FL370
	All	V139 SARDI CCC	ZNY Boundary	AOB FL210
GON, HTO	All	SIE J121/V139 HTO (MONDI)	RADDS or 30nm S SIE	AOB FL370
		V139 HTO (MONDI)	ZNY Boundary	AOB FL210
HPN	All	SIE BOUNO#	ZNY Boundary	AOB FL240
	All	J150 CYN BOUNO#	ZNY Boundary	AOB FL230
HPN, DXR	All	RICED#	ZNY Boundary	AOB FL210
North N90 Sats	Jet	SIE V139 RICED or MAD193 KEYED	RADDS	AOB FL370
		RICED#	RADDS AOB FL370	
		RICED#	ZNY Boundary	AOB FL210
SWF	All	J220-J227	ZNY Boundary	AOB FL290, 20 MIT

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PHL	Jet	GVE/FAK PAATS#	SHONA	FL310
			BUKKY	FL240
			JAYBO	15000
		PXT PAATS#	5nm S GARED	13000
		PAATS#	ESSSO	10000, 250 IAS
		SWL JIIMS#/VCN#	RADDS	15000
	Prop	SWL JIIMS#/VCN#	RADDS	11000
		SWL/DASHA JIIMS#	WNSTN	8000, HO to ACY
		SWL VCN#	SIE	8000, HO to ACY
	Jet	SWL/DASHA JIIMS#	HEKMN	9000
		SWL VCN#	10nm S VCN	9000
		BRIGS JIIMS#/VCN#	BRIGS	14000
		BRIGS JIIMS#	IROKT	9000
		BRIGS VCN#	10nm E VCN	9000
Prop	GARED V229 LEEAH VCN	ATWEL	8000, HO to DOV	
TProp	ENO V29 DQO	BLARE	11000	
PHL N SATs	All	V16 ENO	5nm S GARED	13000
	Jet	JIIMS#	JIIMS	10000, 250 IAS
	Jet	VCN#	VCN	10000, 250 IAS
	Jet	DPNT#	HOGY	10000, 250 IAS
	Jet	PAATS#	ESSSO	12000, 250 IAS
PHL S SATs	Jet	V16 ENO	5 S GARED	13000
	Prop	V16 ENO	GOFER	13000
	Prop	ENO	CANNY	8000, HO to DOV
ILG + Sats	All	RIC V16 PXT	RIC	FL230
	All	J174 CSN OTT V379 ENO	CSN	FL190
	All	CSN OTT V379 JETTA DQO	CSN	FL190
	All	SBY V29 ENO	20nm N SBY	11000
	All	MRB ENO#	15nm W MRB	15000
	Prop	V44/V166/V214	25nm W MRB	11000
WRI	All	J51/J42/J150 OTT SIE#	OTT	FL240
	Jet	OTT SIE#	JAYBO	15000
	Jet	SWL SIE#	RADDS	11000
	Jet	GARED SIE SIE#	5nm S GARED	13000
	Jet	SIE#	SIE	8000
	Prop	V139 SIE V1 CYN	RADDS	AOB 11000
	All	SIE V1 CYN	SIE	8000
ALB + Sats	All	J42 RBV	ZNY Boundary	AOB FL350
BDL + Sats	All	J42 RBV	ZNY Boundary	AOB FL270
	All	J79 JFK DPK DPK#	40nm SW JFK	FL250
	Prop	SIE V139 MAD BRISS	ZNY Boundary	AOB FL210
BED, BVY	All	J49 JFK DPK MAD HFD GRAYM	40nm SW JFK	FL250
BOS	All	J42 RBV J222 JFK	ZNY Boundary	AOB FL370
HFD	All	J79 JFK DPK MAD	40nm SW JFK	FL250

PVD	All	J42 RBV	ZNY Boundary	AOB FL330
SYR	All	J220-J227	ZNY Boundary	AOB FL310

**3-4. ZTL**

LANDING	TYPE	ROUTE	LOCATION	RESTRICTION
CLT + Sats	Jet	MAJIC#	ZTL Boundary	AOB FL260
		CHSLY#	ZTL Boundary	Descend Via
	Prop Prop	FAY V56 FLO RASLN#	FAY 20 DME	11000, HO to FAY
		ARGAL GSO V143 GIZMO	GSO 30 DME	13000
CLT Sats	Jet	NASCR#	HENBY	13000
	Prop	NASCR#	HENBY	11000
CAE	All	GSO J75 CAE	ZTL Boundary	AOB FL300
GSO + Sats	Jet	J79 FKN V66 ARGAL	FKN	AOB FL240
		ARGAL	GSO 30 DME	13000
		SDZ BLOCC#	BLOCC	12000
	Prop	SDZ BLOCC#	BLOCC	11000
	Jet	HENBY#	HENBY	12000
	Prop	HENBY#	HENBY	11000
TRI	All	All	ZTL Boundary	AOB FL260
SPA,GSP GMY,GYH	All	All	ZTL Boundary	AOB FL280
HKY,UKF,SV H	All	All	ZTL Boundary	AOB FL200, descending 16000

**3-5. ZJX**

LANDING	TYPE	ROUTE	LOCATION	RESTRICTION
CAE	All	All	ZJX Boundary	AOB FL220
CHS + Sats	All	All	ZJX Boundary	AOB FL280
FLO + MYR + Sats	All	All	ZJX Boundary H/O TO APP	AOB 11000
SAV	All	All	ZJX Boundary	AOB FL340
FLO	ALL	ALL	ZJX Boundary H/O TO APP	AOB 5000

**3-6. ZID**

LANDING	TYPE	ROUTE	LOCATION	RESTRICTION
CRW+PKB	All	All	ZID Boundary	AOB FL230, descending 11000

**3-7. ZOB**

<b>LANDING</b>	<b>TYPE</b>	<b>ROUTE</b>	<b>LOCATION</b>	<b>RESTRICTION</b>
PIT	All	EKN/RICCS IHD DEMME#	ZOB Boundary	AOB FL230, descending FL210
JST	ALL	JST	ZOB Boundary	14000
CKB	ALL	CKB	ZOB Boundary	10000
MGW	ALL	MGW	ZOB boundary	10000