

CDX.NA.IG.31		
Reference Obligations Being Replaced		5
Reference Entities Being Updated		1
New Reference Entity and Obligation Being Added		2
Unchanged Reference Entities and Obligations		117

Removed Entities	
Pinney Bowes Inc.	
Time Warner Inc.	

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Reference Obligations Being Replaced: 6

Reference obligations for the index constituents listed below are no longer suitable for inclusion. Replacement reference obligations have been sourced and are listed.

Market Ticker	Reference Entity	Currently in Index			Expected replacements		
		Instrument Name	ISIN	Tier	Instrument Name	ISIN	Tier
MO	Altria Group, Inc.	MO 9.7 10Nov18	US02095AD53	SNRFOR	MO 4.75 05May21	US022095AL79	SNRFOR
GENMC	General Motors Company	GENMC (3) 3.5 02Oct18	US37045VAD29	SNRFOR	GENMC (2) 4.875 02Oct23	US37045VAE02	SNRFOR
MAR	MARRIOTT INTERNATIONAL, INC.	MAR 3 01Mar19	US571903AJ23	SNRFOR	MAR 2.3 15Jan22	US571903AR49	SNRFOR
HIG	THE HARTFORD FINANCIAL SERVICES GROUP, INC.	HIG 6 15Jan19	US418515AV66	SNRFOR	HIG 5.125 15Apr22	US418515AB42	SNRFOR
PG	The Procter & Gamble Company	PG 1.6 15Nov18	US742718EE59	SNRFOR	PG 3.1 15Aug23	US742718EB11	SNRFOR
COF-BNKNA	Capital One Bank (USA), National Association	COF-BNKNA 2.25 13Feb19	US140420NH93	SNRFOR	COF-BNKNA 2.3 05Jun19	US140420NK23	SNRFOR

Reference Entities Being Updated: 1

The index constituents listed below have gone through a corporate action or credit event.

Market ticker	Name	Currently in Index			Expected replacements				
		Instrument Name	ISIN	Tier	New Market ticker	New Market Name	Instrument Name	ISIN	Tier
EXPD	Expedia, Inc.	EXPD 4.5 15Aug24	US30212PAJ49	SNRFOR	EXPEGRO	Expedia Group, Inc.	EXPEGRO 4.5 15Aug24	US30212PAJ49	SNRFOR

New Reference Entity and Obligation Being Added: 2

Below is the new entity being added to this index, along with the relevant reference obligation.

Currently in Index				
Market ticker	Name	Instrument Name	ISIN	Tier
DHI	D.R. Horton, Inc.	DHI 4.75 15Feb23	US23331ABG31	SNRFOR
WMB	THE WILLIAMS COMPANIES, INC.	WMB 4.55 24Jun24	US969457BW96	SNRFOR

Unchanged Reference Entities and Obligations: 116

The index constituents and their associated reference obligation listed below are expected to remain unchanged

Currently in Index				
Market ticker	Market Name	Instrument Name	ISIN	Tier
STCENT	21st Century Fox America, Inc.	STCENT (2) 3.7 15Sep24	US90131HA553	SNRFOR
AET	Aetna Inc.	AET 6.625 15Jun36 BondCall	US00817YAF51	SNRFOR
AEP	AMERICAN ELECTRIC POWER COMPANY, INC.	AEP 2.95 15Dec22	US025537AG68	SNRFOR
AMP	American Express Company	AMP (1) 2.65 02Dec22	US025818B507	SNRFOR
AMGN	American International Group, Inc.	AMGN 6.25 01May36 Struct	US026874A207	SNRFOR
AMGN	Amgen Inc.	AMGN 2.2 22May19	US031162BU36	SNRFOR
APC	ANADARKO PETROLEUM CORPORATION	APC 6.95 15Jun19	US032511BF31	SNRFOR
ANDEAVAA	Anadava	ANDEAVAA (1) 4.75 15Dec23	US03049MA091	SNRFOR
APA	APACHE CORPORATION	APA 3.25 15Apr22	US037411A287	SNRFOR
ARW	ARROW ELECTRONICS, INC.	ARW 6 01Apr20	US042735BA76	SNRFOR
DEXB-AGM	ASSURED GUARANTY MUNICIPAL CORP.			
ATTINC	Attit Inc.	ATTINC 2.45 30Jun20	US00206RCL42	SNRFOR
AZO	AutoZone, Inc.	AZO 2.5 15Apr21	US053332AS14	SNRFOR
AVT	Avnet, Inc.	AVT 4.875 01Dec22	US053807AR45	SNRFOR
ABX	BARRICK GOLD CORPORATION	ABX 5.8 15Nov34	US067901AA64	SNRFOR
BAX	Baxter International Inc.	BAX 1.7 15Aug21	US071813BR07	SNRFOR
BRK	Berkshire Hathaway Inc.	BRK 2.75 15Mar23	US084670BR84	SNRFOR
BBY	Best Buy Co., Inc.	BBY 5.5 15Mar21	US086516AL50	SNRFOR
HRB-File	Block Financial LLC	HRB-File 5.5 01Nov22 Struct	US083662AE40	SNRFOR
BSX	Bristol-Myers Squibb Corporation	BSX 6 15Jan20	US011374K042	SNRFOR
BMJ	Bristol-Myers Squibb Company	BMJ 6.8 15Nov26	US110122AB49	SNRFOR
CPB	CAMPBELL SOUP COMPANY	CPB 4.25 15Apr21	US13428AW933	SNRFOR
CNATUR	CANADIAN NATURAL RESOURCES LIMITED	CNATUR 3.45 15Nov21	US136365AR22	SNRFOR
CAH	Cardinal Health, Inc.	CAH 4.625 15Jan28	US14148YAT55	SNRFOR
CCL	CARNIVAL CORPORATION	CCL 6.65 15Jan28	US143658AH53	SNRFOR
CAT	Caterpillar Inc.	CAT 3.9 27May21	US149123BV25	SNRFOR
CBSCOR	CBS Corporation	CBSCOR 4.3 15Feb21	US148574E230	SNRFOR
CHLBLM	Church & Dwight, Inc.	CHUBUNA 8.875 15Apr29	US04404EAC12	SNRFOR
CMCSA	Comcast Corporation	CMCSA 5.7 01Jul19 BondCall	US20030NA242	SNRFOR
CONABRA	Conagra Brands, Inc.	CONABRA 7 01Oct28	US206887AR36	SNRFOR
COP	Coca-Cola Bottling Co.	COP (1) 5.8 15Dec22	US206262CF14	SNRFOR
COX-Commnic	Cox Communications, Inc.	COX-Commnic 6.8 01Aug28	US24444AN72	SNRFOR
CSX	CSX Corporation	CSX 3.7 01Nov23	US126408G204	SNRFOR
CVSHEA	CVS Health Corporation	CVSHEA 2.125 01Jun21	US126650CT50	SNRFOR
DRI	Darden Restaurants, Inc.	DRI 3.95 01Apr22	US23719AA189	SNRFOR
DE	Deere & Company	DE 4.375 16Oct19	US244199BC83	SNRFOR
DVN	Devon Energy Corporation	DVN 7.95 15Apr32	US251799AA02	SNRFOR
DOMINEN	Dominion Energy, Inc.	DOMINEN 2.75 15Jan22	US257461JC86	SNRFOR
DOMC	Domini Corporation	DOMC 4.4 01Apr22	US257559AH77	SNRFOR
DUKECO	Duke Energy Carolinas, LLC	DUKECO 6.1 01Jun37	US26442CA227	SNRFOR
DXTEC	DXC TECHNOLOGY COMPANY	DXTEC 4.45 18Sep22	US23355LA444	SNRFOR
DD	E. I. du Pont de Nemours and Company	DD 2.8 15Feb23	US263534CK37	SNRFOR
EMN	Eastman Chemical Company	EMN 7.8 01Feb27	US274320AD23	SNRFOR
ENB	Enbridge Inc.	ENB 3.5 10Jun24	US252050NAH89	SNRFOR
ECACN	ENCANA CORPORATION	ECACN 6.5 15May19	US292505AH79	SNRFOR
ENERTRAB	Energy Transfer Partners, L.P.	ENERTRAB 4.15 01Oct20	US29273RAX70	SNRFOR
ENR-ERPopLP	ENR Operating Limited Partnership	ENR-ERPopLP 4.825 15Dec21	US292884AC266	SNRFOR
EXC	Exxon Corporation	EXC 5.15 01Dec20	US210371AL13	SNRFOR
FE	FirstEnergy Corp.	FE 7.375 15Nov31	US337932AC13	SNRFOR
F	Ford Motor Company	F 4.346 08Dec26	US345370CR39	SNRFOR
GE	General Electric Company	GE 3.7 09Oct22	US369894BD95	SNRFOR
GIS	General Mills, Inc.	GIS 3.15 15Dec21	US370334BM56	SNRFOR
HAL	HALLIBURTON COMPANY	HAL-EnSvcs 8.75 15Feb21	US406216AH42	SNRFOR
HESS	Hess Corporation	HESS 3.5 15Jul24	US428099AF47	SNRFOR
HON	Honeywell International Inc.	HON 5.7 15Mar26 BondCall	US348516AR73	SNRFOR
HOSHOT-HSTRES	Host Hotels & Resorts, L.P.	HOSHOT-HSTRES 4.75 01Mar23	US44107TA134	SNRFOR
HPINCAA	HP Inc.	HPINCAA 4.65 09Dec21	US428236BV43	SNRFOR
IR-NJ	Ingersoll-Rand Company	IR-NJ 9 15Aug21	US456866GA74	SNRFOR
IBM	International Business Machines Corporation	IBM 1.625 15May20	US459209AB60	SNRFOR
AIG-IntLesseFin	INTERNATIONAL LEASE FINANCE CORPORATION	AIG-IntLesseFin 8.25 15Dec20	US459745GF92	SNRFOR
IP	INTERNATIONAL PAPER COMPANY	IP 7.5 15Aug21 Struct	US460146CE11	SNRFOR
JNJ	Johnson & Johnson	JNJ 1.65 01Mar21	US478160BS27	SNRFOR
JOHCON	JOHNSON CONTROLS INTERNATIONAL PUBLIC LIMITED COMPANY	JOHCON 5.3 30Mar20	US321735AD90	SNRFOR
KINDERM	Kinder Morgan, Inc.	KINDERM 3.05 01Dec19	US49456BAE11	SNRFOR
KSS	Kohl's Corporation	KSS 4 01Nov21	US500256AR59	SNRFOR
KRAFHEI	Kraft Heinz Foods Company	KRAFHEI 6.375 15Jul28	US423074AF08	SNRFOR
LNC	Lacleth National Corporation	LNC 6.25 15Feb20	US481491TA92	SNRFOR
LMT	Lockheed Martin Corporation	LMT 4.25 15Nov19	US539380AT67	SNRFOR
LTR	Lewes Corporation	LTR 6 01Feb35	US540424AP38	SNRFOR
LOW	Lowe's Companies, Inc.	LOW 6.25 15Apr20	US548661C089	SNRFOR
M	Macy's, Inc.	M-RHT 3.45 15Jan21	US565661AN75	SNRFOR
MMC	MARSH & MCLENNAN COMPANIES, INC.	MMC 5.875 01Aug33	US571748AK86	SNRFOR
MCD	MCDONALD'S CORPORATION	MCD 2.75 09Dec20	US588013ME83	SNRFOR
MCK	McKesson Corporation	MCK 7.65 01Mar27	US581557AM75	SNRFOR
NET	MetLife, Inc.	NET 4.75 08Feb21	US601668AX61	SNRFOR
MONDINT	Mondelēz International, Inc.	MONDINT 4 01Feb24	US609207AB14	SNRFOR
MOTSOL	Motorola Solutions, Inc.	MOTSOL 7.5 15May25	US620076AH21	SNRFOR
NRUC	National Rural Utilities Cooperative Finance Corporation	NRUC 8 01Mar32	US637432CT02	SNRFOR
NEVEBRA	Newell Brands Inc.	NEVEBRA 3.85 01Apr23	US651229AR11	SNRFOR
NEM	Newmont Mining Corporation	NEM 5.875 01Apr35	US651639AE60	SNRFOR
JWN	Nordstrom, Inc.	JWN 6.95 15Mar28	US655664AH33	SNRFOR
NSC	NORFOLK SOUTHERN CORPORATION	NSC 3.25 01Dec21	US655844BC28	SNRFOR
NCRGRM	Norfolk Granum Corporation	NOC SysCorp (1) 7.75 15Feb31	US668407AV21	SNRFOR
OMC	Omnicom Group Inc.	OMC 4.45 15Aug20	US682134AC59	SNRFOR
PACKAM	Packaging Corporation of America	PACKAM 3.9 15Jun22	US695156AP42	SNRFOR
PFE	Pfizer Inc.	PFE 2.2 15Dec21	US717081DZ31	SNRFOR
PRU	Prudential Financial, Inc.	PRU 7.375 15Jun19	US744320BQ31	SNRFOR
DGX	Quest Diagnostics Incorporated	DGX 2.5 30Mar20	US74834LAW00	SNRFOR
RTN	Raytheon Company	RTN 7.2 15Aug27	US755111AF81	SNRFOR
RAI	Raytheon American Inc.	RAI 4.85 15Sep23	US761713AY21	SNRFOR
RCL	ROYAL CARIBBEAN CRUISES LTD.	RCL 5.25 15Nov22	US780163AL83	SNRFOR
R	Ryder System, Inc.	R 2.55 01Jun19	US783555JW07	SNRFOR
SRE	Sempra Energy	SRE 4.05 01Dec23	US816851AU37	SNRFOR
SPG-LP	Simon Property Group, L.P.	SPG-LP 4.375 01Mar21	US823807CF26	SNRFOR
LUV	Southwest Airlines Co.	LUV 2.65 09Nov20	US824168B536	SNRFOR
TGT	Target Corporation	TGT 3.875 15Jul20	US87612EAV83	SNRFOR
ALL	The Allstate Corporation	ALL 3.15 15Jun23	US020002AZ47	SNRFOR
BA	THE BOEING COMPANY	BA 8.75 15Aug21	US097023AD79	SNRFOR
PCW	The Dow Chemical Corporation	PCW 7.375 01Mar20	US2605438110	SNRFOR
HD	The Home Depot, Inc.	HD 5.875 16Dec36 BondCall	US437076AS19	SNRFOR
KR	THE KROGER CO.	KR 6.15 15Jan20	US01044CH20	SNRFOR
SHW	The Shaw-Williams Company	SHW 7.375 01Feb27	US824384BL09	SNRFOR
WIS	The West Diner's Company	WIS 2.55 15Feb22	US824689CT12	SNRFOR
TSN	Tyson Foods, Inc.	TSN 4.5 15Jun22	US902494AT07	SNRFOR
UNP	Union Pacific Corporation	UNP 6.625 01Feb29	US907818CF33	SNRFOR
UPS	United Parcel Service, Inc.	UPS-American 8.375 01Apr30	US911308AB04	SNRFOR
UNH	UnitedHealth Group Incorporated	UNH 5.35 15Jul22	US923429CN06	SNRFOR
VLOC	Valero Energy Corporation	VLOC 8.75 15Jun30	US91913YAB65	SNRFOR
VRZN	Verizon Communications Inc.	VRZN 2.55 17Jun19	US92343VCB80	SNRFOR
VIAINC	Viacom Inc.	VIAINC 6.875 30Apr36 Struct	US923524AX89	SNRFOR
WALMINTC	WALMART INC.	WALMINTC 5.875 05Apr27	US931142C648	SNRFOR
WESTMNV	WestRock MWV, LLC	WESTMNV 7.95 15Feb31	US961548AY02	SNRFOR
WY	Weyerhaeuser Company	WY 7.125 15Jul23	US962166AS33	SNRFOR
WHR	Whitpool Corporation	WHR 4.85 15Jun21	US96332CD998	SNRFOR
KRYX	KRYX CORPORATION	KRYX 2.75 01Sep20	US984121CK78	SNRFOR
XLTLTD	XLIT Ltd.	XLTLTD 6.25 15May27	US983272PAK49	SNRFOR