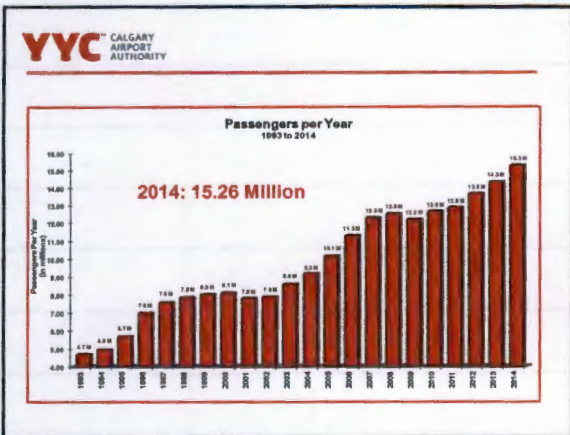
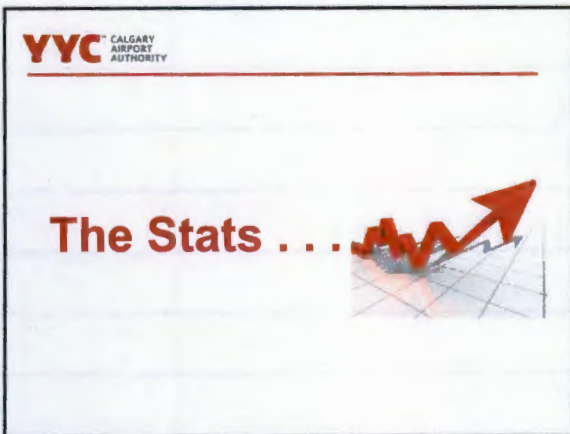
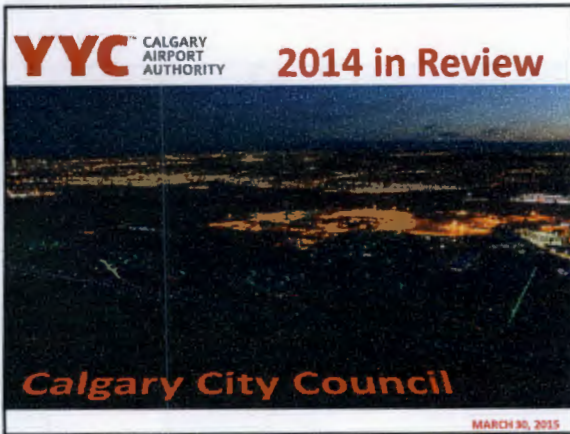


CITY OF CALGARY  
**RECEIVED**  
IN COUNCIL CHAMBER

3/26/2015

MAR 30 2015

ITEM: *DISTRIBUTION*  
*Calgary Airport Authority Annual*  
CITY CLERK'S DEPARTMENT *Report*



CITY OF CALGARY  
RECEIVED  
IN COUNCIL CHAMBER  
MAR 3 8 2015

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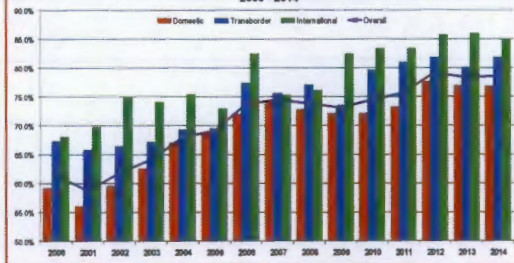
### Top 2 Destinations in 2014

Domestic	U.S.A.	International
1. Vancouver	1. Houston	1. London
2. Toronto	2. Las Vegas	2. Frankfurt



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AIRCRAFT LOAD FACTOR @ YYC  
2000 - 2014



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Major Canadian Airports  
2014 Passenger Traffic  
(Millions)

**YYC was #3 in 2014**





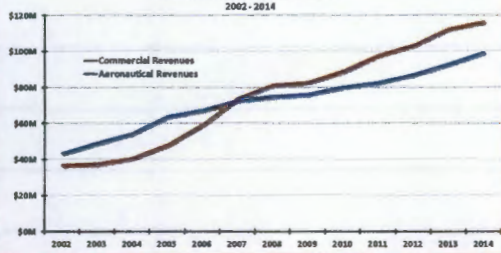
**YYC**™ CALGARY  
AIRPORT  
AUTHORITY

**2014 TOTAL REVENUES  
\$366.1M**



**YYC**™ CALGARY  
AIRPORT  
AUTHORITY

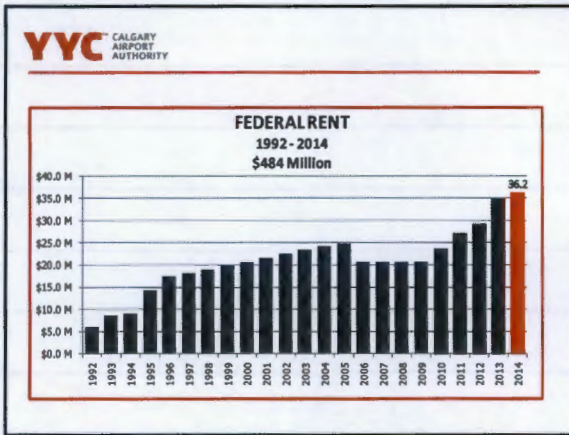
**CALGARY AIRPORT AUTHORITY  
AERONAUTICAL & COMMERCIAL REVENUES  
2002 - 2014**



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AUTHORITY

**2014 DIRECT OPERATING EXPENSES  
\$100.5M**






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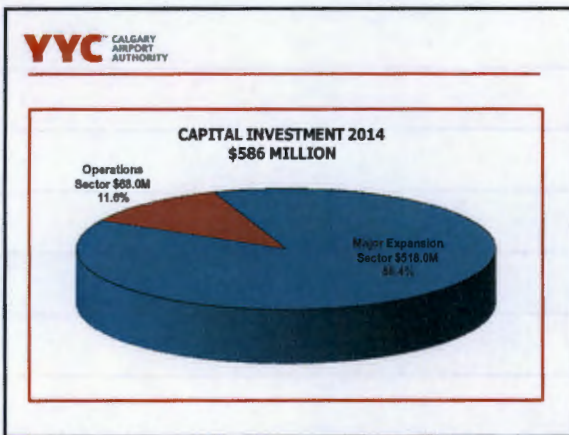
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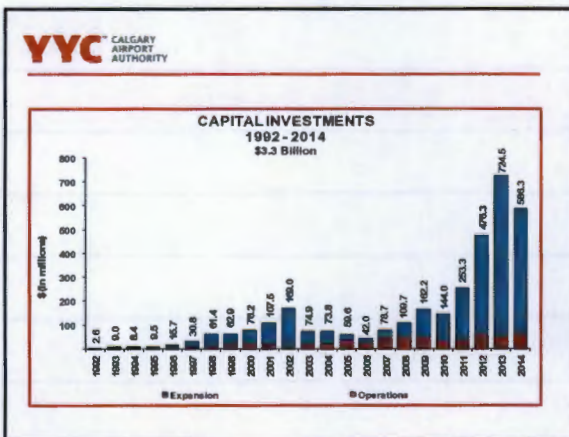
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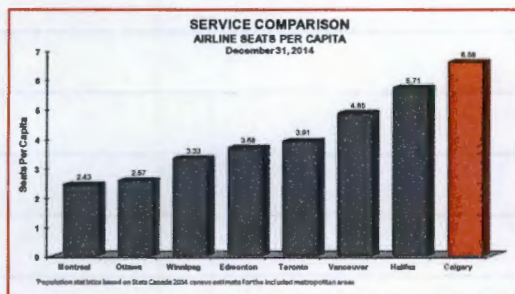
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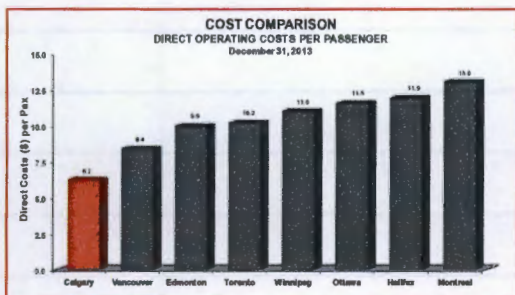
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## 2014 Highlights

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### RUNWAY 17L-35R

- ✓ A major milestone for YYC and Western Canada




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### 17L-35R

#### Development History:

- Planned over 40 years ago
- Noise contours established in 1979
- Design started in 2001
- Construction commenced in 2011
- In-Service June 28, 2014

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### 17L-35R

#### Specifications:

- 14,000 ft x 200 ft
- 100% concrete (runway & taxiways)
- 100% LED lighting (runway & taxiways)
- Category III Instrument Landing System
- 300m Runway End Safety Areas

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### 17L-35R

#### Complementary Initiatives:

- New high-speed Oshkosh emergency response vehicles



- New fleet of 'Snow Mauler' airfield maintenance equipment




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### 17L-35R

#### Complementary Initiatives:

- Existing West Airfield was re-numbered



- New Multi-Lateration Ground Surveillance System which allows controllers to identify specific aircraft & vehicles on the airfield




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**17L-35R**

**Complementary Initiatives:**

- New mid-field Control Tower to provide good line-of-sight



- City of Calgary completed Airport Trail Tunnel




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**17L-35R**

**June 14/15:**

- Ribbon cutting and public events


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**17L-35R**

**Saturday, June 28<sup>th</sup>**

WestJet Flt 169 arriving from St. John's



Air Canada Flt 009 departing to Tokyo



**In-Service . . .**

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## Parallel Runway Aircraft Operations

### ➤ Community Impacts

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## Parallel Runway Aircraft Operations

### Community Impact – In General

- ➔ East – West      < Less Impact >
- ➔ North – South    + More Impact
- ➔ New operations on Runway 17L-35R alignment
- ➔ Calgary Area Airspace Changes

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## Parallel Runway Aircraft Operations

### Aircraft Arrival Patterns

Pre-Parallel



Post-Parallel




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**Parallel Runway Aircraft Operations**

### Aircraft Departure Patterns

**Pre-Parallel**



**Post-Parallel**



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**Parallel Runway Aircraft Operations**

### Noise Management Tools

- Published Noise Abatement Procedures
- Flight Tracking System
- Sound Monitoring Systems
- Concerns Hotline
- Communication and Consultation
  - Airport Community Consultative Committee

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**Parallel Runway Aircraft Operations**

### Airport Community Consultative Committee




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**Operational Mitigation Measures****Near-Term:**

1. Favouring 35's
  - Landings from south; Departures to north
2. No turns before 1,000 ft.
3. 10° (vs. 15°) divergence

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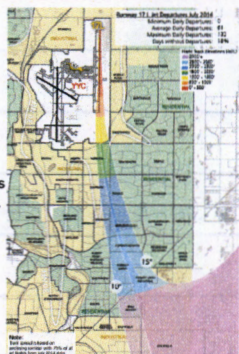
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**10 Degree Divergence****Assessment of Net Benefit****Objectives:**

- Maximize flights over commercial areas
- Maximize altitude of aircraft flying over residential areas




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**Operational Mitigation Measures****Mid-Term:**

1. RNAV SID
  - RNAV – IFR navigation method that allows more precise flight paths
  - SID – Standard Instrument Departures defines a more precise departure flight path

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## Parallel Runway Aircraft Operations

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### RNAV SID

**Advantages:**

- Reduced splay
- Defined turn location
- Defined climb gradient

**Steps Required:**

- Discussion at technical committee
- Impact analysis
- Consultation
- Create design



[illegible]

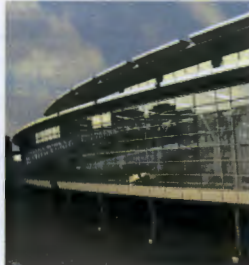
## YYC™ CALGARY AIRPORT AUTHORITY

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### Other Major Construction

#### Connectivity Program

- to provide YYC with excellent passenger & baggage connections

[illegible]

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## Connectivity Program

**Widening of the existing terminal to facilitate post-security movement of passengers**

**LEGEND**

- CTS Stations
- CTS Route
- Pedestrian Walkway
- Pedestrian Crossing

**A** **B** **C** **DE**

[illegible]



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**Connectivity Program**

- ✓ Moving sidewalks
- ✓ Compact Transit System
- ✓ Replacement of existing ATB Baggage System




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**Connectivity Program**

- ✓ A new Connections Centre and related processes to facilitate the connection of passengers between different sectors




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**Connectivity Program**

- ✓ Recently opened
  - New Concourse C Pre-Board Screening Point




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### New International Terminal




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### New International Terminal

<input type="checkbox"/> 5 Levels	<input type="checkbox"/> New Hotel
<input type="checkbox"/> 2 Million f <sup>2</sup>	<input type="checkbox"/> 2 Common-Use Lounges
<input type="checkbox"/> 22 Aircraft Gates	<input type="checkbox"/> 2 Central Retail Plazas

✓ Substantial progress in 2014

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### New International Terminal Departure Hall




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### New International Terminal Baggage System




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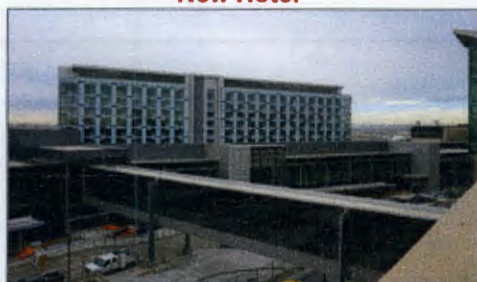
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### New International Terminal New Hotel




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### New International Terminal

#### Related Development Processes:

- Tenant Development
- Terminal Integration
- Asset Commissioning
- Agency & Airline Coordination
- Activation
- Operational Readiness

Planned opening.... Fall 2016

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**Airfield Safety**





**New 24/7/365 dedicated Airfield Safety Team**




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**Concourse/Gate Re-Designation**

2 years of planning + 1 very busy night

**CHANGES AT YYC ARE AS EASY AS ABC.**

Major structural repairs and improvements to the Concourse, including the addition of new gates, have been completed. The new gates are now open and ready for use. The changes are as easy as ABC.



**YYC**

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**Passenger Air Services**

→ **New Non-Stop Services:**

- New York JFK
- Freeport
- Prince George
- Penticton

→ **Seats increased over 50% to:**

• Red Deer	• Fort St. John
• Brandon	• St. John's
• Nanaimo	• Montego Bay

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### Air Cargo Services

- ✓ Cargolux increased Luxembourg service to 3/wk



- ✓ New scheduled service to Hong Kong by Cathay Pacific




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### Air Cargo Services

- ✓ New 30,000 f2 specialized Cargo Facility opened December 2014




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### New Terminal Retail Services



**135  
Shops  
&  
Services**




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**Passenger Terminal Services**

**New Travel Alberta  
Visitor Information Centre**



**400+  
White Hat  
Volunteers**



**New Luggage  
Carts**



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**Land Development**

**935,000 f<sup>2</sup> of new industrial developments completed and underway**



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**+ YYC Economic Impact +**

**\$8.28  
Billion**



**48,000  
Jobs**

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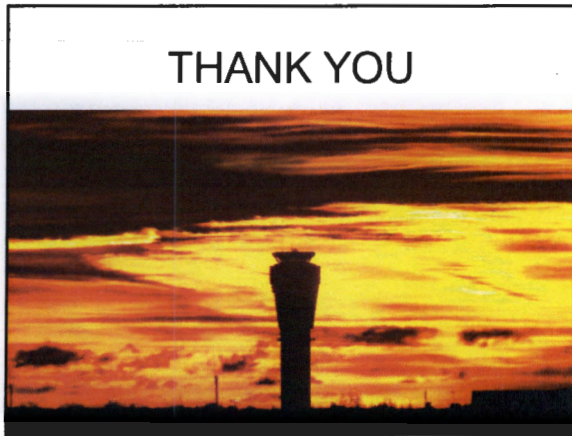
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