



## TSB Recommendation A17-02

### In-flight breakup

The Transportation Safety Board of Canada recommends that the Department of Transport, in collaboration with the Canadian aviation industry and employee representatives, develop and implement requirements for a comprehensive substance abuse program, including drug and alcohol testing, to reduce the risk of impairment of persons while engaged in safety-sensitive functions. These requirements should consider and balance the need to incorporate human rights principles in the *Canadian Human Rights Act* with the responsibility to protect public safety.

Air transportation safety investigation report	<a href="#">A15P0081</a>
Date the recommendation was issued	02 November 2017
Date of the latest response	December 2023
Date of the latest assessment	February 2024
<a href="#">Rating</a> of the latest response	Satisfactory in Part
<a href="#">File status</a>	Active

### Summary of the occurrence

On 13 April 2015, Carson Air Ltd. flight 66 (CA66), a Swearingen SA226-TC Metro II (registration C-GSKC, serial number TC-235), departed Vancouver International Airport (CYVR), British Columbia, with 2 pilots on board for an instrument flight rules flight to Prince George, British Columbia. At 0709 Pacific Daylight Time (PDT), approximately 6 minutes after leaving Vancouver, the aircraft disappeared from air traffic control radar while climbing through an altitude of 8700 feet above sea level in instrument meteorological conditions, about 4 nautical miles north of the built-up area of North Vancouver. Deteriorating weather conditions with low cloud and heavy snowfall hampered an air search; however, aircraft wreckage was found on steep, mountainous, snow-covered terrain by ground searchers at approximately 1645 PDT. The aircraft had experienced a catastrophic in-flight breakup. Both pilots were fatally injured, and the aircraft was destroyed. Although the aircraft's 406-megahertz emergency locator transmitter activated, the antenna was damaged and no signal was received by the Cospas Sarsat (international satellite system for search and rescue). The accident occurred during daylight hours.

Although the investigation could not determine why the aircraft descended at high speed and broke up in flight, given the captain's high blood-alcohol content, alcohol intoxication almost certainly played a role in the events leading up to the accident.

The Board concluded its investigation and released report A15P0081 on 02 November 2017.

### **Rationale for the recommendation**

A number of countries, including the United States, Australia, and the United Kingdom, have identified the hazards to aviation posed by drug and alcohol use and have implemented programs to help ensure that individuals are not impaired while carrying out safety-sensitive functions. In the United States, random testing for both drugs and alcohol is mandatory for all transportation workers, as well as for others employed in safety-sensitive occupations. In Australia, random breath-testing is now carried out in all transportation modes, including aviation, marine, rail, and public transport. In the United Kingdom, all air operator certificate holders and air navigation service providers are required to include a drug and alcohol policy in their safety management systems.

In addition to the *Criminal Code of Canada* prohibition against operating an aircraft while impaired, Transport Canada (TC) regulations prohibit pilots from operating aircraft while unfit for duty. TC has issued a framework for medical standards for pilots along with guidelines for civil aviation medical examiners, pilots, and other licensed employees in safety-sensitive functions. The framework relies significantly on self-policing by such personnel and, to a large extent, an expectation that they will voluntarily report a health issue (including a mental health issue such as drug or alcohol dependence) to their medical examiner and will remove themselves from active duty if medically unfit or impaired.

The TSB has identified drug and alcohol use as a factor in previous investigations. As well, several incidents involving pilots who reported for work while impaired have been covered prominently in the media. In a number of cases, it was an airport employee or a co-worker of an impaired pilot who ultimately served as the last line of defence and prevented the impaired pilot or pilots from operating an aircraft. While effective in those cases, this defence is insufficient on the whole.

Existing laws, regulations, standards, and guidance may be effective at mitigating some of the risks associated with substance use among pilots and others in safety-sensitive functions; however, there continue to be occurrences in which impaired individuals are not identified or prevented from operating an aircraft.

If there is no regulated drug- and alcohol-testing requirement in place to reduce the risk of impairment of persons while engaged in safety-sensitive functions, employees may undertake these duties while impaired, posing a risk to public safety. Although random drug and alcohol testing can be an effective way to identify individuals who may be at risk of performing safety-sensitive duties while impaired, it is only one aspect of a comprehensive response to inappropriate drug and alcohol use in aviation. Testing programs are most effective when

complemented by other initiatives, including education, employee assistance programs, rehabilitation and return-to-duty programs, and peer support.

Therefore, the Board recommended that

the Department of Transport, in collaboration with the Canadian aviation industry and employee representatives, develop and implement requirements for a comprehensive substance abuse program, including drug and alcohol testing, to reduce the risk of impairment of persons while engaged in safety-sensitive functions. These requirements should consider and balance the need to incorporate human rights principles in the *Canadian Human Rights Act* with the responsibility to protect public safety.

**TSB Recommendation A17-02**

## Previous responses and assessments

### February 2018: response from Transport Canada

Transport Canada (TC) agrees in principle with the aviation safety recommendation (A17-02).

Aviation safety is of paramount importance to TC. To that end, the department is committed to continuing to strengthen aviation safety by working in consultation with its stakeholders from industry as well as its international partners to prevent and remedy impairment in the aviation sector.

TC is committed to building upon its established medical substance abuse program and work is currently underway to examine ways to enhance measures to detect, prevent and treat impairment in the transportation sector. In addition to this program, TC will further examine the development of additional mechanisms to protect the travelling public from impaired individuals performing safety-sensitive functions.

Pursuant to the *Aeronautics Act* and the *Canadian Aviation Regulations* (CARs), Canada has strict rules, regulations, and medical standards in place governing the consumption of drugs and alcohol.

TC will address this recommendation under the following separate action streams:

#### 1. TC's Civil Aviation Medical Substance Abuse Protocol

TC has a robust medical protocol in place for substance abuse disorders. This protocol is underpinned by a strict medical assessment and certification process.

To obtain a pilot license, all candidates must first obtain a Medical Certificate issued by the Minister of Transport. The process begins with an examination by a Civil Aviation Medical Examiner (CAME). The CAME conducts a medical examination and prepares a medical examination report, including a recommendation regarding medical fitness. This is submitted to the Minister's medical advisors in the Transport Canada Civil Aviation Medicine Branch (TC CAM). Once received, TC CAM assesses all required medical reports submitted regarding the

applicant. Should the candidate meet the medical standards for the category of medical certificate requested, a Medical Certificate will be issued.

*Identifying Substance Use and Abuse Issues:*

The *Aeronautics Act* requires all physicians to report medical conditions that may constitute a hazard to aviation safety to TC. This mandatory disclosure to the regulator is one of the most robust medical reporting systems among member states of the International Civil Aviation Organization (ICAO).

These disclosure requirements allow all medical professionals to alert TC CAM of identified medical concerns or conditions. Once TC CAM has been made aware, either through a CAME examination, a treating medical professional, or the applicant, the following process is initiated:

1. The individual is advised and TC CAM requests the medical assessment to determine whether the individual has a diagnosable condition of a substance use disorder or that a pattern of substance use presents as a high enough concern to warrant medical attention.
2. When a diagnosis is made or the concern is high enough, TC CAM requires appropriate treatment from an addictionologist, and follow-up which often involves a thirty-day, in patient session.
3. TC CAM will then assess the success of the treatment according to the expert addictionologists associated with the in-patient facility.
4. If treatment is judged to be successful, TC CAM arranges for follow-up within the local medical community which involves ongoing medical assessment and monitoring (initially monthly) and attendance (initially daily, then weekly) at a program similar to Alcoholics Anonymous (AA).
5. Following successful compliance with these steps, a favourable assessment by the medical treatment team, and acceptance by the treated pilot that he or she will continue with long-term treatment as well as a monitoring plan, an application for a re-instatement of the medical certificate can then be made.
6. Once TC CAM is satisfied that treatment has been successful, the monitoring program is sufficiently rigorous, and that the pilot is complying with this monitoring program, CAM may recommend a “with or as” medical certificate (i.e., the treated individual must always fly with another pilot fully qualified on the aircraft type) with additional conditions which include compliance with treatment, attendance at AA or a similar program, no-notice drug and alcohol testing (initially quarterly), and total abstinence for a minimum of two years. If the clinical situation warrants, the testing may go on for a longer duration of time.

Pilots employed by the larger air carriers, may have access to a Tri-partite program which is an oversight management committee consisting of a medical treatment physician, union representation, and an employer representative. These programs treat pilots with substance

abuse issues to reduce the risk of impairment within the aviation sector. TC has participated and supported Tri-partite programs since 1980, since which time the model has evolved into a comprehensive substance abuse management protocol which addresses the needs and concerns of all interested parties.

The Tri-partite approach is oriented to the three-fold process to:

- Identify those with a substance abuse disorder;
- Refer those with a disorder for treatment and rehabilitation through an Employee Assistance Program (EAP); and
- Provide continuous monitoring and follow-up.

Following the identification of a substance abuse disorder case, the requirements listed above must be met; however, whenever available, this is accomplished through the Tri-partite program.

Approximately 90 percent of pilots found with a substance use disorder have returned to flight deck duties after successful treatment and management of their disorder. TC's comprehensive substance abuse protocol is effectively finding, treating, and returning pilots with substance use disorders to flying duty.

TC CAM also continues to participate in, and support, international efforts to promote and raise awareness to reduce the risk of impairment in aviation. More specifically, this work takes place through ICAO and other international working groups, as well as follow up on any noted activities with a view to harmonizing standards and practices.

## **2. TC's continuing engagement and collaboration with the Canadian aviation industry and employee representatives**

To ensure that safeguards and safety standards continue to be effective, in early January 2017, the Minister of Transport wrote to all airlines operating in Canada requesting that they confirm that their safety protocols are up-to-date, including measures intended to confirm pilots are fit to fly. The top eight major Canadian airlines confirmed that they have the safety protocols in place to deal with alcohol and drug abuse. Some of the tools and practices adopted by the airlines include: internal workplace drug and alcohol policies, education materials and operating manuals.

In addition, as part of TC's ongoing approach to engage stakeholders on safety issues, the department held a Fit to Fly workshop in early June 2017, which brought together over 200 stakeholders from across the aviation industry, including pilot unions, NAV CANADA, aviation associations, aviation personnel, other federal departments, and health professionals. The aim of the workshop was to promote aviation safety culture within the aviation community, raise awareness about mental health and substance abuse, provide information about best practices and programs, as well as share practical methods of promoting a healthy workforce.

At the Fit to Fly Workshop, TC also heard about the proactive role that industry and pilot unions are taking to address substance abuse, including Employee Assistance Programs (EAP) and peer-to-peer support programs in the workplace. For example, larger Canadian airlines have implemented EAP to help their employees treat alcohol, drugs, and mental health issues. These programs provide referrals to health professionals for counselling, treatment, and rehabilitation. In addition, establishing peer-to-peer support networks (i.e., a collection of smaller operators) and/or programs administered by industry associations could assist smaller air carriers in aiding their pilots and employees in addressing substance abuse. Since EAPs are not mandatory and are industry-led initiatives, there are no government regulatory standards or guidelines.

In fall 2018, TC will launch an awareness campaign on substance abuse in aviation. The campaign will promote the concept that the well-being of employees and peers is a shared responsibility. The TSB's report indicates that some co-workers suspected that the Captain had an alcohol problem, but no one reported their concerns. The campaign will educate the aviation community in recognizing substance abuse related symptoms and provide guidance in addressing possible problems.

### **3. Current Testing Practices in Aviation**

Currently, operators may administer alcohol and drug testing on flight crew members based on reasonable grounds of suspicion of impairment ("for cause" testing), as well as following an accident or incident.

At this time, Canadian medical certificate holders (i.e. pilots) with a known diagnosis of substance abuse may be subject to no-notice drug and alcohol testing to ensure compliance with the abstinence provisions of their certificate. However, TC does not have the legislative authority to mandate random testing of flight crews as a screening measure. Mandating random drug and alcohol testing will require further study, evaluation and justification to determine the most effective means to address the recommendation while at the same time taking into account privacy and human rights issues, as well as legislation and principles, including the *Canadian Human Rights Act* and the *Canadian Charter of Rights and Freedoms*.

### **4. TC's Further Policy Analysis Work**

Recognizing that substance abuse is an issue that can affect all modes of transportation, Transport Canada is proactively engaging in policy work on impairment across all modes — air, marine and rail, as well as motor vehicle safety. Prompted in part by Bill C-45 and Bill C-46, this policy analysis will consider the prevalence and impact of impairment while on duty, approaches employed by other nations, privacy issues, human right issues under the Canadian Charter of Human Rights (and associated legislation), employer-employee occupational health and safety standards for impairment under the purview of Employment and Social Development Canada, and the capacity of sectors of the transportation system to bear the costs of new obligations. Any potential new requirements for a comprehensive substance abuse program would be based on a balance of considerations, as well as the overarching safety of the Canadian transportation system, in the policy analysis.

Specifically for the aviation sector, TC is currently reviewing policy, regulatory, and enforcement approaches to enhance the deterrence and prevention measures for flight crew reporting to duty impaired. The approaches being considered include: reviewing alcohol limits; performing pre-employment testing for substance use; performing mandatory random substance use testing accompanied by a comprehensive EAP; and increasing the minimum time between consuming alcohol and beginning duty for safety-sensitive positions. Furthermore, as a result of the Fit to Fly workshop and TC's initial policy work, the department envisions employers taking on a greater role in establishing testing regimes and developing EAP programs for employees conducting safety-sensitive functions. TC understands that these are complex issues and will therefore engage with stakeholders to better understand the challenges for the aviation safety sector and to develop effective programs.

TC is also examining whether the current regulations are adequate to prevent flight crew from reporting to duty while under the influence. Furthermore, TC is working to enhance deterrent measures by:

- Amending the current 8 hour “bottle to throttle” regulation to 12 hours, prohibiting flight crew from working within this extended timeframe after consuming an alcoholic beverage (this initiative is currently proceeding as part of the actions being undertaken to address the issue of fatigue);
- Prescribing an actual blood-alcohol limit to align with international counterparts; and
- Implementing stricter approaches to punitive and enforcement actions for those individuals who try to purposely deceive the system.

This in-depth analysis, expected to be completed by fall 2018, will help inform development of an impairment policy to reduce the risk of flight crew in safety sensitive positions reporting to duty impaired.

#### **March 2018: TSB assessment of the response (Satisfactory Intent)**

TC has made the following undertakings to address the safety deficiency identified in Recommendation A17-02, regarding the development and implementation of a comprehensive substance abuse program in the aviation industry:

- By fall 2018, TC intends to complete an in-depth policy analysis on impairment in the aviation industry in order to examine whether it can establish a comprehensive substance abuse program that effectively balances safety with other policy considerations. TC also intends to implement more stringent regulatory and enforcement measures for detecting, preventing and treating impairment in the aviation industry, namely by:
  - prohibiting pilots from consuming alcohol within 12 hours of any flight, rather than the current limit of 8 hours;
  - setting a blood-alcohol content limit consistent with regulations in other countries; and

- implementing stricter approaches to punitive and enforcement actions for those individuals who try to purposely deceive the system.
- In fall 2018, TC intends to hold an awareness campaign on substance abuse in aviation. The campaign will promote the concept that the well-being of employees and peers is a shared responsibility; and
- TC intends to continue working with the International Civil Aviation Organization and participate in international working groups in order to harmonize standards and practices with respect to impairment in aviation, and raise awareness on the risks associated with substance abuse.

The Board is encouraged that TC acknowledges the safety benefits of a comprehensive substance abuse program that includes drug and alcohol testing. However, until TC reaches conclusions as to the most effective means of addressing the risks underpinning this recommendation and provides the TSB with its plan of action moving forward following those conclusions, it is unclear when or how the safety deficiency identified in Recommendation A17-02 will be addressed.

Therefore, the Board considers Transport Canada's response to Recommendation A17-02 to show **Satisfactory Intent**.

#### **March 2019: response from Transport Canada**

TC agrees in principle with this recommendation.

TC has reviewed policies and regulations regarding impairment and is in the process of developing policy and regulatory options to promote the continued safety of the aviation system. TC is taking a multi-modal approach to address impairment issues and aims to develop a common platform across all transportation modes.

#### **Cannabis:**

In 2018, TC consulted with a number of its aviation stakeholders and other government departments on cannabis legalization prior to it coming into force. TC sent letters on October 10, 2018, to all aviation stakeholders and pilot's unions emphasizing its existing prohibitions under the *Canadian Aviation Regulations* (CARs) regarding drug use. A copy of the letters sent to aviation stakeholders and pilot's unions are attached in Annex 2 and 3.

In the interest of aviation and passenger safety, TC does not intend to ease restrictions on the use of cannabis or other substances that cause impairment. TC remains committed to ensuring a robust evidence and risk based approach to preventing aviation document holders from undertaking aviation activities while impaired by any illegal or legal drug, including cannabis.

#### **Alcohol:**

In 2017, TC proposed amendments to paragraph 602.03(a) of the *Canadian Aviation Regulations* (CARs) prohibiting crew members from working within 12 hours after consuming an alcoholic beverage (an increase from the current limit of 8 hours). The regulations came into force on December 12, 2018 (SOR/2018-269).

Ongoing work:

Work is ongoing in 2018-2019 to review policy and regulatory approaches to enhance current regulatory authorities, such as defining safety sensitive positions, prescribing a blood alcohol limit, and continuous work with industry to expand the use of Employee Assistance programs to treat employees with substance abuse and mental health issues.

#### **May 2019: TSB assessment of the response (Satisfactory in Part)**

In its response, Transport Canada (TC) indicates that it has taken the following actions to address the safety deficiency identified in Recommendation A17-02, regarding the development and implementation of requirements for a comprehensive substance abuse program, including drug and alcohol testing, to reduce the risk of impairment of persons while engaged in safety sensitive functions:

- In 2017, the *Canadian Aviation Regulations* (CARs) were amended to prohibit crew members from working within 12 hours after consuming an alcoholic beverage (an increase from the previous limit of 8 hours). This regulation came into effect on 12 December 2018;
- In 2018, consultation with stakeholders and other government departments took place concerning cannabis legalization. TC reminded all aviation stakeholders and pilot unions of its existing drug use prohibitions under the CARs; and
- Work is ongoing to define safety sensitive positions, prescribe a blood alcohol limit, and encourage industry to expand the use of employee assistance programs to treat employees with substance abuse and mental health issues.

The Board is encouraged by the actions taken to date. However, in its latest response, TC has not provided any information regarding the development and implementation of requirements for a comprehensive substance abuse program, including drug and alcohol testing, which is the intent of Recommendation A17-02. As such, it is unclear if the safety deficiency identified in Recommendation A17-02 will be fully addressed.

Therefore, the Board considers Transport Canada's response to Recommendation A17-02 to be **Satisfactory in Part**.

#### **December 2019: response from Transport Canada**

TC agrees in principle with the recommendation.

TC currently has a comprehensive substance abuse program in place which includes regulations and medical standards that govern the consumption of drugs and alcohol pursuant to the

*Aeronautics Act* and the CARs. This program is in continuous development in coordination with stakeholders to keep pace with changes in the regulatory environment.

In addition to the changes in alcohol policy described in TC's previous update, in the past year TC has responded to the legalization of cannabis by introducing a new cannabis policy<sup>1</sup> to strengthen its medical certification and assessment process. The cannabis policy sets a 28-day prohibition on cannabis consumption for the purposes of issuing, renewing, and maintaining the validity of medical certificates. The policy applies to aviation license holders (i.e., pilots, flight engineers and air traffic controllers). The cannabis policy is evidence-informed, supports self-disclosure of cannabis use, and provides the basis for educating aviators and controllers to enable accurate self-assessment for fitness for duty requirements.

In considering the potential safety benefits of drug and alcohol testing, TC has reviewed the testing practices that are currently permitted under *Canadian Human Rights Commission's Policy on Alcohol and Drug Testing*.<sup>2</sup> Commercial aviation in Canada has an excellent safety record and there is no evidence of a widespread impairment issue in the industry. Mandating a random testing regime for any organization in Canada would need to be justifiable and clearly demonstrate that there is an impairment issue such that a random testing regime was necessary to maintain aviation safety. Without evidence of a widespread issue and a clear link to aviation safety, TC and any other organization would have difficulty defending challenges to a random testing regime brought under human rights legislation.

While TC is not ruling out the random testing option, the effective use of permitted testing practices will be reinforced in an updated substance use policy for aviation medical certification which is in development. The policy will clarify TC's position on random testing and it will be shared with the TSB once completed in early 2020.

Currently, drug and alcohol testing of flight crew members may be administered in specific circumstances including: for aviation medical certification, for reasonable suspicion of impairment ("*for cause*" testing), as well as following an accident or incident. Canadian medical certificate holders (i.e. pilots, flight engineers and air traffic controllers) in treatment for substance use disorders may be subject to additional long-term no-notice (random) drug and alcohol testing to ensure compliance with the abstinence provisions of their certificate.

TC is also continuing its education and outreach efforts in this area including:

- TC is planning a second "*Fit to Work*" workshop in spring 2020. The title was changed to now encompass not only pilots, but all of the aviation industry. This workshop will build off of 2017 "*Fit to Fly*" workshop topics and look at incorporating further education about drugs (i.e. cannabis).

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<sup>1</sup> Transport Canada (2019), Staff Instruction 404-002, Civil Aviation Medicine Cannabis Policy. Available at [https://www.tc.gc.ca/eng/civilaviation/opssvs/managementservices-referencecentre-documents-400\\_series-404-002-13919.html](https://www.tc.gc.ca/eng/civilaviation/opssvs/managementservices-referencecentre-documents-400_series-404-002-13919.html)

<sup>2</sup> Canadian Human Rights Commission (2009), Canadian Human Rights Commission's Policy on Alcohol and Drug Testing. Available at: [http://publications.gc.ca/collections/collection\\_2009/ccdp-chrc/HR4-6-2009E.pdf](http://publications.gc.ca/collections/collection_2009/ccdp-chrc/HR4-6-2009E.pdf)

- TC will continue the “*Fit to Work*” campaigning at industry events, updating the tool kit and using social media to reach the aviation community. The specific focus will be on employers and employees sharing responsibility for cultivating a culture that embraces colleagues speaking up for each other in times of need, and feeling confident reporting incidents of impairment (“*see something; say something*”).

TC also presented a working paper<sup>3</sup> at the 40<sup>th</sup> ICAO Assembly in September 2019 on promoting a healthy aviation culture through education and awareness surrounding substance use disorders and mental health. The objective of the working paper was to draw greater attention to these issues and implement adequate responses to the global challenge of mental health and substance use disorders to enable effective prevention, early identification, and proper management of these issues to minimize the threat to global aviation safety. The working paper was well-supported and States agreed to place greater emphasis on promotion of education and awareness around mental health and substance use disorders of aviation personnel.

The aviation industry has education and training programs for employees and supervisors on impairment and its impacts on aviation safety; and the large air carriers offer support for employees with alcohol and drug substance use disorders including employee assistance programs, return-to-work programs, and peer support programs. In addition to the provisions in the CARs on drug use and impairment, the Canadian aviation industry is responsible for developing its own internal policies and guidelines. The aviation industry has workplace drug and alcohol policies (not required under statute/regulation) in place that its employees are in a fit state to perform safety sensitive functions as part of its obligations to ensure a safe work environment.

### **February 2020: TSB assessment of the response (Satisfactory in Part)**

In its response, Transport Canada (TC) indicates that it has taken additional steps to address the safety deficiency identified in Recommendation A17-02. These steps include the following:

- the introduction of a new cannabis policy designed to strengthen the medical certification and assessment process for aviation licence holders;
- the presentation of a working paper on the promotion of a healthy aviation culture at the 40<sup>th</sup> ICAO Assembly in September 2019; and
- the review of the testing practices currently permitted, as described in the Canadian Human Rights legislation and Policy on Alcohol and Drug Testing.

In addition, TC indicates that it is in the process of

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<sup>3</sup> ICAO (2019) « Fit to work » - Promoting a Healthy Aviation Culture through Education and Awareness Surrounding Substance Use Disorders and Mental Health ». Available at: [https://www.icao.int/Meetings/a40/Documents/WP/wp\\_256\\_en.pdf](https://www.icao.int/Meetings/a40/Documents/WP/wp_256_en.pdf)

- updating a substance use policy for aviation medical certification, which should be completed in early 2020; and
- planning a “Fit to Work” workshop encompassing all of the aviation industry, to be presented in the spring of 2020.

The Board is encouraged by the actions taken to date and what is proposed for 2020. The Board also recognizes the continuing challenges of implementing random drug and alcohol testing in the context of Canadian Human Rights legislation. However, until the proposed actions are fully realized, the risks identified in Recommendation A17-02 will persist.

Therefore, the Board considers the response to the recommendation to be **Satisfactory in Part**.

### **December 2020: response from Transport Canada**

TC agrees in principle with the recommendation.

In TC’s December 2019 response, the Department committed to:

- Publishing an updated substance use policy for aviation medical certification in early 2020; and,
- Planning a second “*Fit to Work*” workshop encompassing all of the aviation industry, to be presented in the spring of 2020.

Since the last update, TC published a substance use policy for aviation medical certification<sup>4</sup> which outlines conditions for monitoring, testing and maintenance. This directive adds to the existing comprehensive substance abuse program described in previous TC correspondence related to this recommendation, which includes rules, regulations, and medical standards that govern the consumption of drugs and alcohol pursuant to the *Aeronautics Act* and the CARs.

The “*Fit to Work*” workshop that was scheduled in Spring 2020 did not take place as planned. Due to the COVID-19 pandemic, limitations on gatherings, travel restrictions, competing priorities and increased workload for both TC and the industry, the workshop was cancelled.

When business resumes as usual for both Government and industry and face-to-face gatherings are once again permitted, TC will continue the “*Fit to Work*” campaign at industry events. Alternative plans for delivery, such as virtual events, will also be considered at that time.

### **March 2022: TSB assessment of the response (Satisfactory in Part)**

In its response, Transport Canada (TC) indicated that it agrees in principle with the recommendation.

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<sup>4</sup> Transport Canada (2020). Staff Instruction 424-002 –Issue 01. *Civil Aviation Medicine Directive – Substance Use*.

To address the safety deficiency identified in Recommendation A17-02, in March 2020, TC published an updated substance use policy for aviation medical certification, which outlines conditions for monitoring, testing, and maintenance. The directive adds to the rules, regulations, and medical standards that form TC's existing substance abuse program.

TC had planned to present a second "Fit to Work" workshop aimed at the whole aviation industry in the spring of 2020; however, the workshop was cancelled due to the COVID-19 pandemic. TC will continue with the "Fit to Work" campaign once business resumes for both government and the industry.

The Board is encouraged by the actions taken by TC to date and acknowledges the challenges that COVID-19 has presented. However, until the proposed actions are fully realized, the risks identified in Recommendation A17-02 remain.

Therefore, the response to Recommendation A17-02 is assessed as **Satisfactory in Part**.

#### **October 2022: response from Transport Canada**

Transport Canada (TC) agrees in principle with the recommendation.

TC has robust medical protocol in place for substance abuse disorders; a protocol that is underpinned by a strict medical assessment and certification process. TC's comprehensive substance abuse program includes regulations and medical standards that govern the consumption of drugs and alcohol pursuant to the *Aeronautics Act* and the *Canadian Aviation Regulations* (CARs). As this program is in continuous development in coordination with stakeholders to keep pace with changes in the regulatory environment, below are the improvements to the program and other initiatives since the recommendation was issued in 2017:

- In January 2017, TC communicated with all airlines operating in Canada requesting that they confirm that their safety protocols (internal workplace drug and alcohol policies, education materials and operating manuals) are up to date, including measures intended to confirm pilots are fit to fly.
- In June 2017, TC held a "Fit to Fly" workshop which brought together over 200 stakeholders (pilot unions, NAV CANADA, aviation associations, aviation personnel, other federal departments, and health professionals) to promote aviation safety culture within the aviation community, raise awareness about mental health and substance abuse, provide information about best practices and programs, as well as share practical methods of promoting a healthy workforce.
- In December 2018, TC proposed amendments to paragraph 602.03(a)5 of the CARs prohibiting crew members from working within 12 hours after consuming an alcoholic beverage (an increase from the limit of 8 hours) came into force.

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<sup>5</sup> Transport Canada (2022). Canadian Aviation Regulations (CARs) §602.02 - Alcohol or Drugs — Crew Members. Available at: <https://lois-laws.justice.gc.ca/eng/regulations/SOR-96-433/FullText.html#s-602.03>

- In June 2019, TC published a new cannabis policy<sup>6</sup> to strengthen its medical certification and assessment process to respond to the legalization of cannabis.
- In September 2019, TC presented a working paper<sup>7</sup> at the 40th ICAO Assembly on promoting a healthy aviation culture through education and awareness surrounding substance use disorders and mental health.
- In 2020, TC published a substance use policy for aviation medical certification<sup>8</sup> which outlines conditions for monitoring, testing and maintenance. This directive adds to the existing comprehensive substance abuse program described herein.

In considering the potential safety benefits of drug and alcohol testing, TC has reviewed the testing practices that are currently permitted under *Canadian Human Rights Commission's Policy on Alcohol and Drug Testing* and concluded Canada would need to be justifiable and clearly demonstrate that there is an impairment issue such that a random testing regime was necessary to maintain aviation safety. Without evidence of a widespread issue and a clear link to aviation safety, TC and any other organization would have difficulty defending challenges to a random testing regime brought under human rights legislation.

In TC's December 2020 update, the Department committed to:

- Planning a second "Fit to Work" workshop encompassing all of the aviation industry, to be presented in the spring of 2020.

As there was not an opportunity to host a "Fit to Work" workshop in the last two years due to the pandemic, the plan moving forward remains to incorporate "Fit to Work" into the Air Taxi Safety Campaign (Recommendation A19-02). Next steps continue to be to explore this initiative during the next few years as the campaign unfolds to update tools and regenerate an awareness on this important topic.

TC remains in the meantime committed to continuing to promote mental health awareness and the treatment of substance use disorders by working in collaboration with industry stakeholders as well as with international partners.

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<sup>6</sup> Transport Canada (2019), Staff Instruction (SI) 404-002 – Civil Aviation Medicine Cannabis Policy. Available at [https://www.tc.gc.ca/eng/civilaviation/opssvs/managementservices-referencecentre-documents-400\\_series-404-002-13919.html](https://www.tc.gc.ca/eng/civilaviation/opssvs/managementservices-referencecentre-documents-400_series-404-002-13919.html)

<sup>7</sup> ICAO (2019), Assembly 40th Session - Working Paper A40-WP/256 - « Fit to work » - Promoting a Healthy Aviation Culture through Education and Awareness Surrounding Substance Use Disorders and Mental Health. Available at: [https://www.icao.int/Meetings/a40/Documents/WP/wp\\_256\\_en.pdf](https://www.icao.int/Meetings/a40/Documents/WP/wp_256_en.pdf)

<sup>8</sup> Transport Canada (2020). Staff Instruction 424-002 – Issue 02. Civil Aviation Medicine Directive – Substance Use.

For example, in October 2021, TC presented a working paper<sup>9</sup> to the High-Level Conference on COVID-19. Key elements of this paper included recommending that International Civil Aviation Organization (ICAO):

- and all States together develop a detailed roadmap to understand and investigate the potential impact of the Covid-19 pandemic on the mental health and wellbeing of all aviation safety personnel.
- support the promotion of a “culture of open disclosure” and raise awareness for substance use disorders and mental health by implementing any suitable methods to achieve these objectives, including but not restricted to training, guidance, sharing experiences and best practices; and
- encourage all States to make wellness programmes, EAP and peer support programmes accessible to all categories of aviation employees and smaller operators.

Widespread support for this paper was received from ICAO and its Member States; ICAO also noted the ongoing work within relevant ICAO expert groups to address this important issue.

TC has also expanded its web resources and guidance<sup>10</sup> on mental health issues for the aviation sector, particularly in response to the COVID-19 pandemic and they are revised and updated as required. TC also raises this topic regularly at the weekly TC-industry calls, which were started in response to the COVID-19 pandemic and continue to serve as a key communication tool with industry.

TC also continues to participate in international committees and working groups addressing mental health issues, such as the ICAO Aviation Medicine Group and the Collaborative Arrangement for the Prevention and Management of Public Health Events in Civil Aviation (CAPSCA). These two groups have been meeting 2-3 times each month, throughout the COVID-19 pandemic.

- The Aviation Medicine Group consists of the ICAO Aviation Medicine section, aviation medical regulators of Member States, and some representatives from industry. They meet to discuss all matters related to health and safety of both crew and passengers.
- The CAPSCA was established in 2006 and is a voluntary, cross-sectorial, multi-organizational collaboration programme managed by ICAO with support from the World Health Organization (WHO). It brings together international, regional, national and local organizations to combine efforts to improve preparedness planning and response to public health events that affect the aviation sector.

<sup>9</sup> ICAO (2021). High-Level Conference on Covid-19 – HLCC 2021-WP/94 - Canada’s Approach to Treating Substance Use Disorders and Continued Education and Awareness Surrounding Mental Health. Available at: [https://www.icao.int/Meetings/HLCC2021/Documents/WP/EN/SAF/wp\\_094\\_en.pdf](https://www.icao.int/Meetings/HLCC2021/Documents/WP/EN/SAF/wp_094_en.pdf)

<sup>10</sup> Transport Canada (2021). COVID-19 Guidance for the Canadian Aviation Industry – Mental health. Available at : <https://tc.canada.ca/en/initiatives/covid-19-measures-updates-guidance-issued-transport-canada/covid-19-guidance-canadian-aviation-industry#toc5>

Ultimately, TC continues to encourage aviation stakeholders to enable self-declaration, referral, advice, counselling and/or treatment, where necessary when mental or wellbeing issues are identified.

TC strongly recommends that all operators continue to raise awareness of mental health with all personnel, not just crew members, as all staff contribute and are vital to the safe functioning of the aviation industry. An environment where mental wellbeing is valued should be promoted.

Together, these measures will allow Canada to continue to strengthen aviation safety domestically and internationally.

### **February 2023: TSB assessment of the response (Satisfactory in Part)**

In its response, Transport Canada (TC) indicated that it agrees in principle with this recommendation and stated that it has a robust medical protocol in place for substance use disorders; a protocol that is underpinned by a strict medical assessment and certification process. Additionally, TC indicated in its response that a number of improvements have been made to its substance abuse program since the recommendation was issued in 2017. In regards to including drug and alcohol testing to reduce the risk of impairment of persons while engaged in safety-sensitive functions, TC stated that it would have difficulty defending challenges to a random testing regime brought under human rights legislation. To justify the need for random drug and alcohol testing, evidence of the issue of impairment would need to be widespread and clearly linked to aviation safety.

In its December 2020 response, TC had committed to continue the “Fit to Work” Campaign at industry events when face-to-face gatherings are once again permitted. TC’s latest response indicated that over the next few years, it will incorporate “Fit to Work” into its Air Taxi Safety Campaign (initiated in response to TSB Recommendation A19-02) and regenerate an awareness on this important topic.

In October 2021, TC presented a working paper to the High-Level Conference on COVID-19, which received widespread support from International Civil Aviation Organization (ICAO) and its member states. The paper made recommendations to:

- investigate the potential impact of the COVID-19 pandemic on mental health;
- support the promotion of a “culture of open disclosure;”
- raise awareness of substance-use disorders; and
- make wellness programs, employee assistance programs, and peer-support programs accessible to all categories of aviation employees and smaller operators.

The Board is encouraged by the amount of work completed by TC to date on this safety issue and looks forward to the results of the work done in response to the recommendations made in the working paper presented to ICAO. However, in future updates, the Board would like to hear more from TC regarding forms of drug and alcohol screening other than random testing that may help reduce the risk of impairment of persons while engaged in safety-sensitive functions.

Therefore, the Board considers the response to the recommendation to be **Satisfactory in Part**.

## Latest response and assessment

### December 2023: response from Transport Canada

Transport Canada (TC) agrees in principle with the recommendation.<sup>11</sup>

TC has robust medical protocol in place for substance abuse disorders; a protocol that is underpinned by a strict medical assessment and certification process. TC's comprehensive substance abuse program includes regulations and medical standards that govern the consumption of drugs and alcohol pursuant to the *Aeronautics Act* and the *Canadian Aviation Regulations* (CARs). As this program is in continuous development in coordination with stakeholders to keep pace with changes in the regulatory environment, below are the improvements to the program and other initiatives since the recommendation was issued in 2017:

- In January 2017, TC communicated with all airlines operating in Canada requesting that they confirm that their safety protocols (internal workplace drug and alcohol policies, education materials and operating manuals) are up to date, including measures intended to confirm pilots are fit to fly.
- In June 2017, TC held a “Fit to Fly” workshop<sup>12</sup> which brought together over 200 stakeholders (pilot unions, NAV CANADA, aviation associations, aviation personnel, other federal departments, and health professionals) to promote aviation safety culture within the aviation community, raise awareness about mental health and substance abuse, provide information about best practices and programs, as well as share practical methods of promoting a healthy workforce.
- In December 2018, TC proposed amendments to paragraph 602.03(a)<sup>13</sup> of the CARs prohibiting crew members from working within 12 hours after consuming an alcoholic beverage (an increase from the limit of 8 hours) came into force.
- In June 2019, TC published a new cannabis policy<sup>14</sup> to strengthen its medical certification and assessment process to respond to the legalization of cannabis.

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<sup>11</sup> All responses are those of the stakeholders to the TSB in written communications and are reproduced in full. The TSB corrects typographical errors and accessibility issues in the material it reproduces without indication but uses brackets [ ] to show other changes or to show that part of the response was omitted because it was not pertinent.

<sup>12</sup> SmartPilot (2017). “Fit to Fly – Fit to Fly Workshop”. Available at: <https://smartpilot.ca/fit-to-fly>

<sup>13</sup> Transport Canada (2022). *Canadian Aviation Regulations* (CARs) §602.03 - Alcohol or Drugs — Crew Members. Available at: <https://lois-laws.justice.gc.ca/eng/regulations/SOR-96-433/FullText.html#s-602.03>

<sup>14</sup> Transport Canada (2019). Staff Instruction (SI) 404-002 – *Civil Aviation Medicine Cannabis Policy*. Available at [https://www.tc.gc.ca/eng/civilaviation/opssvs/managementservices-referencecentre-documents-400\\_series-404-002-13919.html](https://www.tc.gc.ca/eng/civilaviation/opssvs/managementservices-referencecentre-documents-400_series-404-002-13919.html)

- In September 2019, TC presented a working paper<sup>15</sup> at the 40th ICAO Assembly on promoting a healthy aviation culture through education and awareness surrounding substance use disorders and mental health.
- In 2020, TC published a substance use policy for aviation medical certification<sup>16</sup> which outlines conditions for monitoring, testing and maintenance. This directive adds to the existing comprehensive substance abuse program described herein.
- In October 2021, TC presented a working paper<sup>17</sup> at the High-Level Conference on COVID-19, recommending the development of a detailed roadmap to assess the pandemic's impact on the mental health of aviation safety personnel. The paper advocated for a “culture of open disclosure,” raising awareness of substance use disorders, and encouraging accessibility to wellness programs for all aviation employees. The International Civil Aviation Organization (ICAO) and its Member States widely supported these proposals, acknowledging ongoing efforts within ICAO expert groups to address the issue.
- TC expanded its web resources and guidance<sup>18</sup> in 2021 on mental health issues for the aviation sector, particularly in response to the COVID-19 pandemic. TC also raises this topic regularly at the weekly TC-industry calls, which were started in response to the COVID-19 pandemic and continue to serve as a key communication tool with industry.

In TC's October 2022 update, the Department committed to:

- Plan a “Fit to work” Campaign to be incorporated as part of the Air Taxi Safety Campaign as the campaign will be promoted to industry and at industry events.

While not referred to as “Fit to Work” specifically within the Air Taxi Safety Campaign, promotional materials are currently being developed with a direct focus on human factors, including Fit to Work. The intent of these materials is to have them published in both official languages and posted to the Air Taxi Safety Campaign website for accessibility to any industry partner who would like to use them in their organizations. This topic of discussion will also be included in any campaign meetings with industry. In addition, this topic will be a focus of discussion at the next Canadian Aviation Safety Collaboration Virtual Forum that will be held in the Spring of 2024.

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<sup>15</sup> ICAO (2019). Assembly 40<sup>th</sup> Session - Working Paper A40-WP/256 - « Fit to work » - *Promoting a Healthy Aviation Culture through Education and Awareness Surrounding Substance Use Disorders and Mental Health*. Available at: [https://www.icao.int/Meetings/a40/Documents/WP/wp\\_256\\_en.pdf](https://www.icao.int/Meetings/a40/Documents/WP/wp_256_en.pdf)

<sup>16</sup> Transport Canada (2020). Staff Instruction 424-002 – Issue 02. *Civil Aviation Medicine Directive – Substance Use*.

<sup>17</sup> ICAO (2021). High-Level Conference on Covid-19 – HLCC 2021-WP/94 - *Canada's Approach to Treating Substance Use Disorders and Continued Education and Awareness Surrounding Mental Health*. Available at: [https://www.icao.int/Meetings/HLCC2021/Documents/WP/EN/SAF/wp\\_094\\_en.pdf](https://www.icao.int/Meetings/HLCC2021/Documents/WP/EN/SAF/wp_094_en.pdf)

<sup>18</sup> Transport Canada (2021). COVID-19 measures, updates, and guidance for aviation issued by Transport Canada. Available at : <https://tc.canada.ca/en/initiatives/covid-19-measures-updates-guidance-issued-transport-canada/covid-19-guidance-canadian-aviation-industry#toc5>

In recent years, TC has taken decisive measures to address critical issues related to substance abuse, mental health, and other pertinent topics in aviation safety. These efforts are documented in a series of publications within the Aviation Safety Letter and are readily available online.

The commitment of TC to enhancing the well-being of the aviation sector is exemplified through various materials, including Cannabis Awareness Posters<sup>19</sup> and Aviation Safety Letter (ASL) Articles covering topics such as fatigue<sup>20</sup>, mental health in aviation<sup>21</sup>, cannabis legalization and policy<sup>22,23,24</sup> and alcohol consumption<sup>25</sup>.

In considering the potential safety benefits of drug and alcohol testing, TC reviewed the testing practices that are currently permitted under *Canadian Human Rights Commission's Policy on Alcohol and Drug Testing* and concluded Canada would need to justify and clearly demonstrate that there is an impairment issue such that a random testing regime was necessary to maintain aviation safety. Without evidence of a widespread issue, TC and any other organization would have difficulty defending challenges to a random testing regime brought under human rights legislation.

Despite the current lack of grounds to justify random testing, other forms of drug and alcohol testing are available to the Canadian aviation industry and are in use, including:

- **Medical testing:** TC Civil Aviation Medicine (CAM) and Civil Aviation Medical Examiners (CAMEs) have the authority to order drug and alcohol testing for medical purposes in support of safe aviation medical certification. As part of the pilot medical examination, CAMEs assess for possible drug and alcohol use and undertake additional medical screening (which may include drug or alcohol testing) when deemed necessary. CAM may direct additional medical screening of pilots if concerns are raised about possible drug or alcohol use. Under the *Aeronautics Act*, all physicians in Canada are required to report any medical condition that is likely to be a hazard to aviation safety,

<sup>19</sup> Transport Canada 2019. Cannabis Awareness Posters: "Your life can change in an instant. Don't fly high." Available at:

[https://tc.canada.ca/sites/default/files/migrated/19\\_aa\\_33\\_civav\\_cannabis\\_poster\\_e01\\_yellow.PDF](https://tc.canada.ca/sites/default/files/migrated/19_aa_33_civav_cannabis_poster_e01_yellow.PDF) and [https://tc.canada.ca/sites/default/files/migrated/19\\_aa\\_33\\_civav\\_cannabis\\_poster\\_e01\\_red.PDF](https://tc.canada.ca/sites/default/files/migrated/19_aa_33_civav_cannabis_poster_e01_red.PDF).

<sup>20</sup> Transport Canada (2017). Aviation Safety Letter (ASL) Issue 03/2017. *Fatigue*. Page 5. Available at: [https://tc.canada.ca/sites/default/files/migrated/asl\\_3\\_2017e.pdf](https://tc.canada.ca/sites/default/files/migrated/asl_3_2017e.pdf)

<sup>21</sup> Transport Canada (2017). Aviation Safety Letter (ASL) Issue 04/2017. *Mental Health in Aviation*. Page 7. Available at: [https://tc.canada.ca/sites/default/files/migrated/asl\\_4\\_2017e.pdf](https://tc.canada.ca/sites/default/files/migrated/asl_4_2017e.pdf)

<sup>22</sup> Transport Canada (2018). Aviation Safety Letter (ASL) Issue 04/2018. *Cannabis Legalization*. Page 7. Available at: [https://tc.canada.ca/sites/default/files/migrated/asl\\_4\\_2018.pdf](https://tc.canada.ca/sites/default/files/migrated/asl_4_2018.pdf)

<sup>23</sup> Transport Canada (2018). Aviation Safety Letter (ASL) Issue 03/2018. *Cannabis legalization and regulations in Canada*. Page 22. Available at: [https://tc.canada.ca/sites/default/files/migrated/asl\\_3\\_2018.pdf](https://tc.canada.ca/sites/default/files/migrated/asl_3_2018.pdf)

<sup>24</sup> Transport Canada (2019). Aviation Safety Letter (ASL) Issue 03/2019. *New Cannabis Policy*. Page 20. Available at: [https://tc.canada.ca/sites/default/files/migrated/asl3\\_2019.pdf](https://tc.canada.ca/sites/default/files/migrated/asl3_2019.pdf)

<sup>25</sup> Transport Canada (2019). Aviation Safety Letter (ASL) Issue 01/2019. *New Regulations on Alcohol Consumption*. Page 14. Available at: [https://tc.canada.ca/sites/default/files/migrated/asl\\_01\\_2019\\_en\\_new.pdf](https://tc.canada.ca/sites/default/files/migrated/asl_01_2019_en_new.pdf)

including drug or alcohol use. CAM will respond to any indication of possible pilot drug or alcohol use, including pilot self-reports, third-party reports, legal incidents or convictions related to drug or alcohol use, or verified positive drug or alcohol tests conducted for legal, medical, occupational, investigative, or administrative reasons. Medical testing can also be ordered by CAM as a surveillance measure to ensure compliance with abstinence requirements in pilots with a past history of substance abuse, dependence, or otherwise problematic substance use. Positive alcohol or drug tests generally result in loss of aviation medical certification, either temporarily or long-term.

- **Reasonable cause testing:** Employers in the aviation industry may order alcohol and drug testing for pilots in instances where there are reasonable grounds to suspect substance use, such as a pilot reporting for work in an unfit condition.
- **Post-incident testing:** Employers and investigators – such as the TSB – may order post-incident testing for pilots following a significant incident, near miss, or other dangerous behaviour where the worker’s act or omission could have been contributory and possible impairment must be assessed.
- **Law enforcement/investigative testing:** Peace officers may demand that pilots comply with alcohol and drug testing for the purposes of enforcing laws pertaining to impaired operation of conveyances, such as those described in the Criminal Code of Canada.

TC also continues to actively participate in international committees and working groups addressing mental health issues, such as the ICAO Aviation Medicine Group and the Collaborative Arrangement for the Prevention and Management of Public Health Events in Civil Aviation (CAPSCA). These two groups continue to meet once to twice a month.

- The Aviation Medicine Group consists of the ICAO Aviation Medicine section, aviation medical regulators of Member States, and some representatives from industry. They meet to discuss all matters related to health and safety of both crew and passengers.
- The CAPSCA was established in 2006 and is a voluntary, cross-sectorial, multi-organizational collaboration programme managed by ICAO with support from the World Health Organization (WHO). It brings together international, regional, national and local organizations to combine efforts to improve preparedness planning and response to public health events that affect the aviation sector.

TC remains dedicated to promoting mental health awareness and treating substance use disorders through collaboration with industry stakeholders and international partners. Ultimately, TC encourages aviation stakeholders to facilitate self-declaration, referral, advice, counseling, or treatment as needed for identified mental or wellbeing issues. The Department strongly advises all operators to raise mental health awareness among all staff, recognizing their vital contributions to aviation safety. The promotion of an environment that values mental wellbeing is crucial. Collectively, these actions will enhance aviation safety in both domestic and international contexts in Canada.

## February 2024: TSB assessment of the response (Satisfactory in Part)

In its latest response, Transport Canada (TC) reiterated that it agrees in principle with the recommendation.

Since the recommendation was issued, TC has taken various steps to improve its program:

- In 2017, TC requested that all airlines operating in Canada confirm that their safety protocols, including workplace drug and alcohol policies, are up to date, and held a “Fit to Fly” workshop to raise awareness about mental health and substance abuse, and to share practical ways of promoting a healthy workplace.
- In 2018, the *Canadian Aviation Regulations* were amended to increase the amount of time crew members had to wait after consuming an alcoholic beverage before working.
- In 2019, TC published a new cannabis policy to respond to the legalization of cannabis in Canada, and it presented a working paper to the International Civil Aviation Organization (ICAO) promoting a healthy aviation culture through education and awareness on substance use disorders and mental health.
- In 2020, TC published a substance use policy for aviation medical certification, adding to the existing substance abuse program.
- In 2021, TC presented a working paper at an ICAO conference on COVID-19, recommending that a roadmap be developed to assess the impact of the pandemic on aviation safety personnel and raise awareness of substance use disorders. TC also expanded its web-based resources and guidance for the aviation sector on mental health issues and raises the topic regularly in meetings with industry.

In addition to these actions, TC has published various posters and articles in the *Aviation Safety Letter* on the topics of fatigue, mental health, cannabis legalization, and alcohol consumption. TC is also developing promotional material with a direct focus on human factors as part of its Air Taxi Safety Campaign and will discuss the topic with industry and at the next Canadian Aviation Safety Collaboration Virtual Forum, to be held in the spring of 2024.

TC has reviewed the testing practices that are currently permitted under Canadian Human Rights Commission’s Policy on Alcohol and Drug Testing and concluded that, without evidence of a widespread issue, it would be difficult to defend any challenges to a random testing regime. However, other forms of drug and alcohol testing are available and being used by the Canadian aviation industry, including the following:

- Medical testing by Civil Aviation Medical Examiners as part of the pilot medical examination.
- Reasonable cause testing by employers in the aviation industry where there are reasonable grounds to suspect substance use.
- Post-incident testing by employers or investigators where there is suspicion of possible impairment.

TC continues to actively participate in international committees and working groups that address mental health issues.

The Board is encouraged that TC remains dedicated to the promotion of mental health awareness and treating substance use issues. The Board remains concerned that TC's latest response does not address the request for options other than random testing; however, the Board acknowledges the work completed to date and looks forward to the discussion on human factors, including Fit to Work, at the next Canadian Aviation Safety Collaboration Virtual Forum.

Therefore, the Board considers the response to Recommendation A17-02 to be **Satisfactory in Part**.

### **File status**

The TSB will monitor the progress of TC's planned actions to mitigate the risk associated with the safety deficiency identified in Recommendation A17-02, and it will reassess the response to the recommendation on an annual basis or when otherwise warranted.

This deficiency file is **Active**.