

**A REVIEW ON BEHALF OF
THE CHAIRMAN OF POST OFFICE LIMITED**

**CONCERNING THE STEPS TAKEN IN
RESPONSE TO VARIOUS COMPLAINTS
MADE BY SUB-POSTMASTERS**

11 January 2016

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I. Introduction

1. We have conducted this review on behalf of the Chairman of Post Office Limited, Tim Parker.
2. This review arises from complaints made by various sub-postmasters (“SPMRs”) about their treatment by Post Office Limited (“POL”). Since 2009 POL has faced complaints from SPMRs that cash shortfalls in their branches, for which they were held responsible by POL were caused by POL’s computer software, known as Horizon, and POL’s wider operational model. These matters have been the subject of consideration and investigation by and on behalf of POL on a number of occasions. The purpose of this review is to consider whether any further action could now reasonably be taken by POL to address the matters raised by the SPMRs.
3. We stress that we have been instructed on behalf of the Chairman to perform an independent assessment of the work which has been done already to address the question whether there is any further step/steps that might reasonably be taken now by POL. We have met with various individuals and parties who could explain the context and their concerns, but not all of those matters fell within the scope of this Review. The legal department of POL has been the source of most of the information provided to us, but we have determined what information should be provided. No information we have requested has been withheld from us and we are grateful for the assistance we have received from both POL and external parties we have spoken to.

II. The Scope of this Review

4. The purpose of this review was originally described in the following terms:

"To review the Post Office's handling of the complaints made by sub-postmasters regarding the alleged flaws in its Horizon electronic point of sale and branch accounting systems, and determine whether the processes designed and implemented by Post Office Limited to understand, investigate and resolve those complaints were reasonable and appropriate."

5. We have been guided by this. But we have concentrated on whether any further action is reasonable and necessary in respect of these issues. This has highlighted two principal questions

- (1) What has already been done in the 2010-2015 period?
- (2) If there are any gaps in the work done, is there further action can reasonably now be taken?

6. In respect of both these questions, with the agreement of the Chairman, we have concentrated on four areas: (a) criminal prosecutions; (b) the Horizon system (i.e. the software); (c) the support provided to SPMRs through training and helplines; and (d) the investigations into the circumstances of specific cases where a complaint has been raised. This Review will address both questions in respect of all four of these areas.

7. As a part of the second question, we will briefly address what steps POL should take now to improve the position of SPMRs, and therefore POL, in the future. However, the more critical focus is on whether anything further can reasonably be done now in respect of existing cases raised with POL. Where we have concluded that it can be, we have set out recommendations accordingly.

8. We recognise that a great deal of work has been undertaken by POL and various third parties concerning Horizon and wider related issues since 2010. It was neither possible nor desirable for us to seek to replicate or duplicate that work in the time available to us. Nor have we sought to establish the precise circumstances of any individual SPMR's case.
9. We have reviewed a considerable amount of documentation provided to us by POL at our request. We have also met with POL employees, and external parties who we considered might be able to assist us in our understanding of the issues involved and what had already been done. In addition, we received training ourselves on the operation of a Horizon terminal.
10. Our meetings were with:
 - (1) Lord Arbuthnot;
 - (2) Second Sight (Ian Henderson and Ron Warmington);
 - (3) Deloitte (Andrew Whitton and Mark Westbrook);
 - (4) Fujitsu (Mike Harvey, Pete Newsome and Gareth Jenkins);
 - (5) Angela Van Den Bogard, POL Director of Support Services;
 - (6) Kevin Seller, POL Director of Network Development and Transformation;
 - (7) Kendra Dickinson, POL Senior Contact Centre Manager; and
 - (8) Shirley Hailstones and Kathryn Alexander, POL Case Investigators.
11. The Chairman invited Alan Bates, Chairman of the "Justice for Sub-postmasters Alliance" ("JFSA") to a meeting with us, but he declined to attend. We are aware that his reason for the refusal was his loss of trust in POL and their ability to meet his concerns.
12. We have not sought to meet with Sir Anthony Hooper, who was Chairman of the Working Group. The running of the Working Group, and indeed the

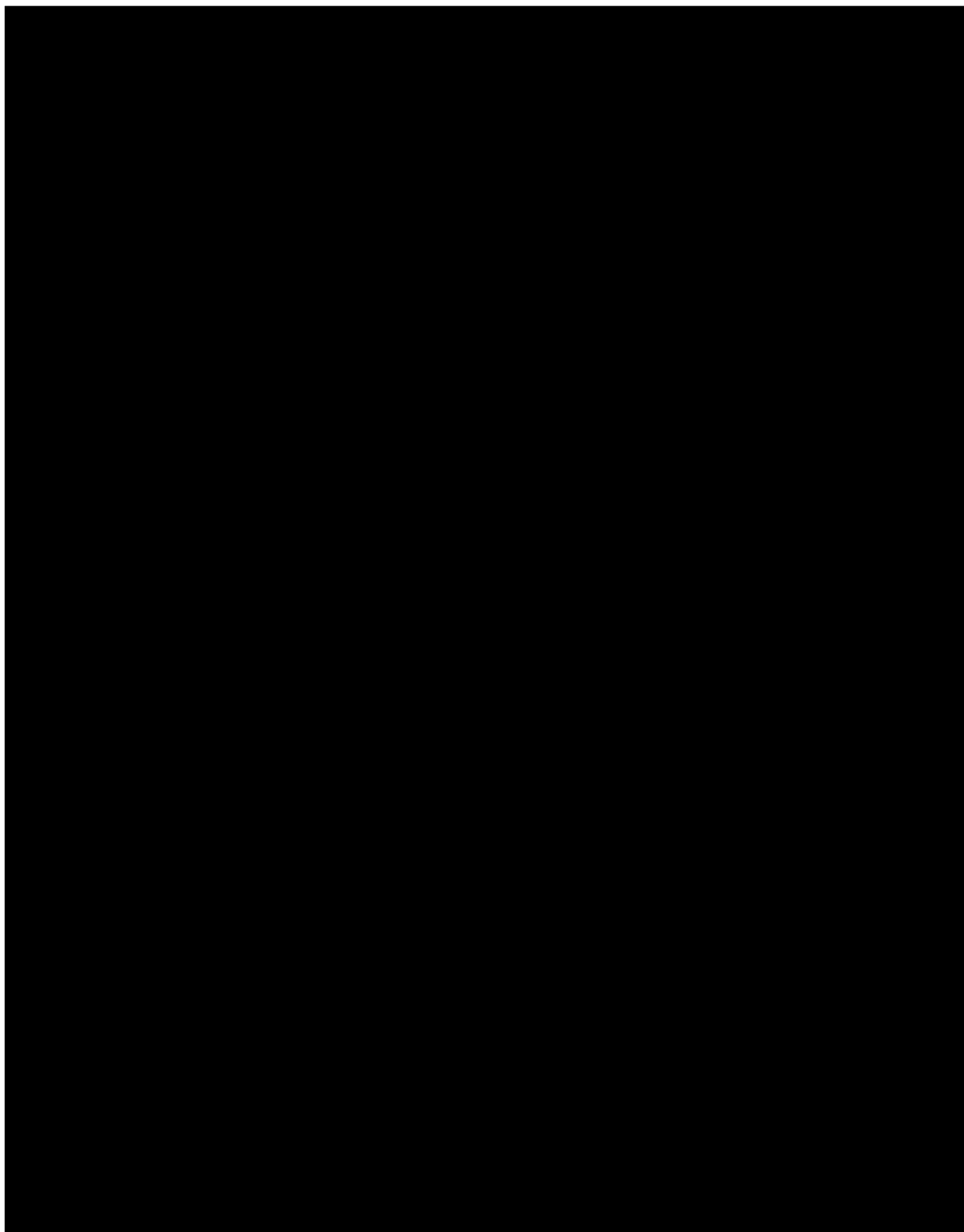
decision to bring it to an end, were not matters directly within the scope of our concern as they are second-order process matters.

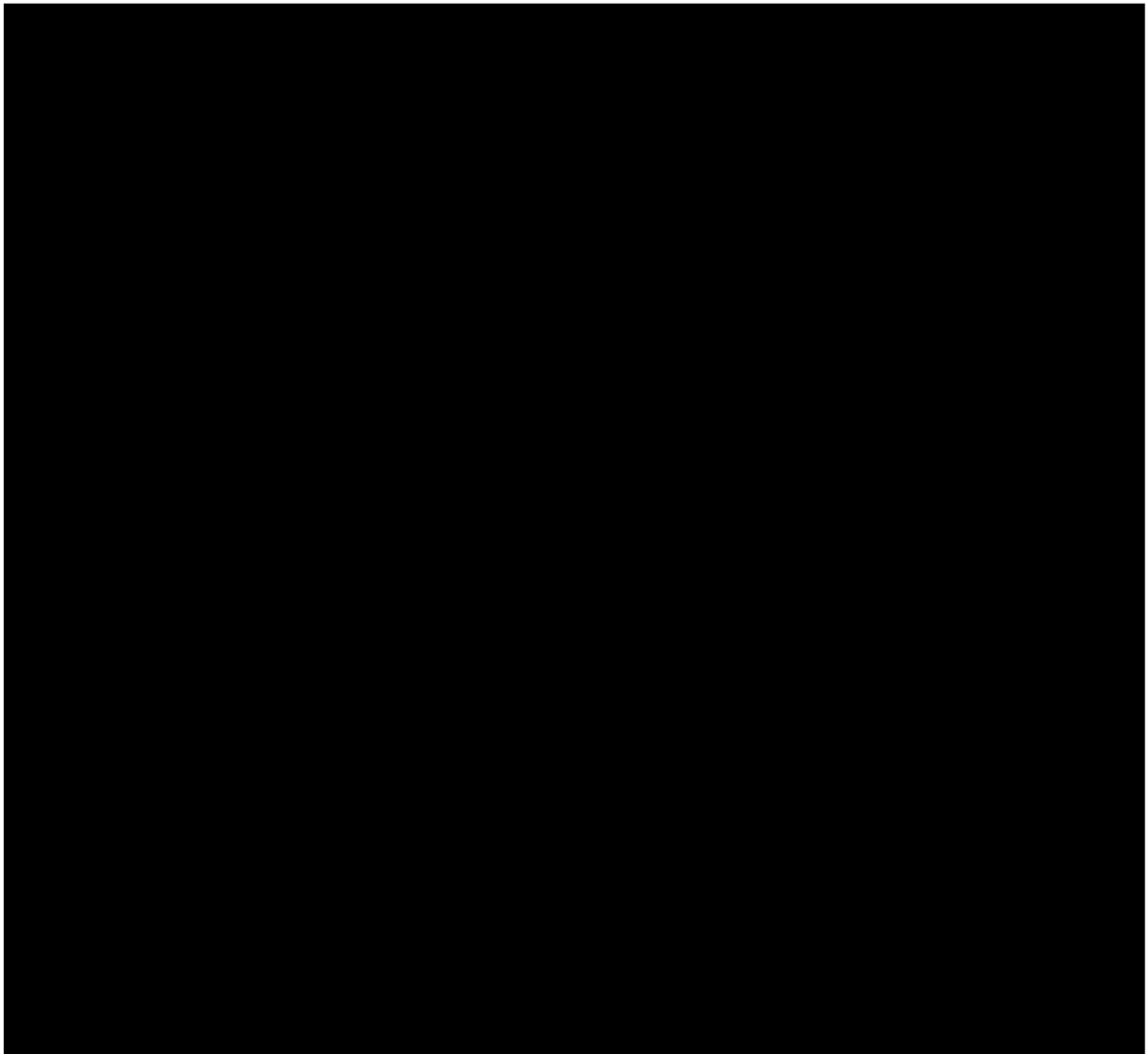
III. Post Office Limited, Sub-postmasters and the Horizon System

(A) The POL Business Model

13. POL is a limited company under the Companies Act 2006. As of 1 April 2012, POL has been separately owned and managed from Royal Mail. The sole shareholder of POL is the Secretary of State for Business, Innovation and Skills but POL acts under the direction of its Chairman and Board of Directors, rather than Ministerial control. However, because the sole owner of POL is the Government, it is commonplace and appropriate to describe POL as expending public funds.
14. There are approximately 11,500 Post Office branches around the United Kingdom. They provide a range of mail, telephony, government and financial products and services to the public. A Post Office branch is often a vital part of a local community.
15. Some 350 of those branches are operated directly by POL, known as Crown branches, in which the staff are employees of POL. These branches have never fallen with the scope of the complaints or this Review.
16. The remainder of the branches are run by SPMRs on an agency basis, under contracts with POL. SPMRs are, accordingly, independent business people. Many operate additional businesses, and it is common that the Post Office branch is found within a wider retail business, such as a newsagent or general store. Every branch has a quantity – varying according to local demand and

branch size - of POL cash and stock (such as stamps) for which the SPMR must account to POL.





(C) *The Horizon System*

22. Horizon is the name given to the computer system provided to POL under contract by Fujitsu Services Limited ("**Fujitsu**"), formerly ICL. It is the system used in all POL Crown branches, sub-Post Offices and outreach branches. We do not understand the basic history and scope of the Horizon system to be controversial, and take this summary from various documents including Second Sight's Part One Report, legal advice provided by Brian Altman QC, witness statements provided by Gareth Jenkins of Fujitsu in POL legal

proceedings against SPMRs and other Fujitsu documentation, such as a presentation on its 'Core Audit Process'. We stress that in this Review we use the term Horizon to refer to the computer system used by POL and the SPMRs only. We do not incorporate within that term a wider definition of all training, assistance and processes the POL have in place to allow Horizon to be used; we find that wider definition which has been used by others to be confusing for our purposes.

23. Fujitsu was awarded a contract with POL in 1996 to provide the Horizon system. Horizon was rolled out to all branches between 1999 and 2002. Branches migrated to an updated system known as Horizon Online (or HNG-X) over the course of 2010. So far as we understand it, there is no significant difference between the practical operation of the original Horizon system and Horizon Online. As the complaints raised have spanned both systems, we refer to both by the term Horizon.
24. Under the original Horizon system the data relating to each transaction was processed and stored by a designated master terminal in each branch before being transmitted in batches to a central POL data centre. Under Horizon Online, each branch terminal now communicates directly with the data centre on a transaction by transaction basis. In order to function, Horizon must be online and each terminal connected to the POL data centre via a secure communication line with a back-up system, provided by POL, usually comprising a mobile telephone network.
25. We note that Horizon is used by over 68,000 users in the 11,500 branches processing more than six million transactions every working day.
26. Transactions in Horizon can only be entered by someone with a user ID and an associated password. Formal approval of a new user can only be carried out by POL, but new users can be added to the system and allocated a user ID

by an SPMR when POL has given them 'manager access'. The password is set by POL or the SPMR and is subsequently managed and changed by the user.

27. Every record that is written to the transaction log has a unique incrementing sequence number. This means it is possible to detect if any transaction records have been lost. While a customer session is in progress, details of the transactions for that session are normally held in the computer's memory until the customer session (often known as the 'stack') is settled (i.e. payment is taken). At that point, all details of the transactions, including methods of payment, are written to the hard disk and replicated. When the stack data is successfully written the screen is updated, printing the relevant receipt when means the session is completed, to indicate a new customer session can be started.
28. Each stack, or basket, of a customer session consists of accounting lines. When a session is settled, the payment process is also added as accounting lines. When the value of the basket is zero it is sent to the data centre where the accounting lines are recorded and committed. The effect of this is that either all of the data, in the form of the accounting lines, is written to the local hard disk and the data centre or none of it is written. The same approach applies to back office transactions, such as inputting stock levels or reversing mistaken transactions.
29. All data that is written includes a 'checksum' value which is checked whenever the data is read to ensure that it has not been corrupted. Any such corruptions detected on reading will result in failures being recorded in the event logs which are held on the local hard disk for a short period, and at the data centre where they are held for seven years.
30. Where the data is not written or replicated, further attempts are made at regular intervals. Once the data reaches the data centre, a further copy is

taken and written to the audit file which is placed into the audit trail where it is available for retrieval for seven years. Data in the audit trail is digitally sealed with a secure checksum that is held separately (in the form of a digital index) to ensure it has not been tampered with or corrupted. Each audit record includes the branch identifier, the counter identifier, the sequence number (i.e. the sequential transaction identifier), and a counter timestamp.

31. Any failures to write to a hard disk, after the set number of retries, will result in the counter failing and needing to be restarted. Such a failure will accordingly be visible, even if it were not already evident because of, for example, a loss of power. There is a specific recovery process which must be followed by the user when the counter is restarted which, we are told, involves various screen prompts.
32. Horizon adopts the principle of double-entry bookkeeping. As set out above, this means that separate accounting lines are also generated for the tender items (i.e. the methods of payment), resulting in a total value of all of the accounting lines in a basket adding up to zero. If, when being written, the net value is not zero then an alert is raised and the basket is discarded.
33. The way in which the Horizon system is operated was described in accessible terms in the *Castleton* judgment at [5]-[7]:

“Each computer terminal included a processor, a touch-sensitive screen, a keyboard, a barcode scanner and a printer. The laid down practice, in outline, was and is as follows. The clerk records on the computer all transactions that he makes. Transactions other than on-line banking are recorded not only on the computer but also by a document, such as a television licence counterfoil, savings bank deposit or withdrawal slip or a cheque. Some transactions are known as APS (automated payment system) transactions. Those are transactions where a customer either uses a card containing a magnetic strip to pay a bill or pays a bill that is barcoded. There are corresponding APS slips recording APS transactions. The subpostmaster is responsible for checking daily the computer records of the transactions of the day against the documentation. He prints out the computer records of the transactions, and when satisfied that they tally with the documentation he sends the documentation

in sealed bags or envelopes by the last collection of the day to the relevant centres. He receives cash, stamps and other cash-type items from time to time in sealed bags and has to record daily the amount of cash held by reference to the denominations of notes and coins. The subpostmaster is also responsible for producing a weekly balance...

Every week, after close of business at 5.30 p.m. on Wednesday and before opening at 9 a.m. on Thursday [the stock is checked] as required by Post Office procedures.

It is obvious that the week's accounts of a post office balance if the difference represented by the receipts minus the payments equals the difference represented by the value of the stock at the end of the week minus the value of the stock at the end of the previous week. If those two differences are not equal, there is a discrepancy. If the former difference is greater than the latter, there is a loss, which is treated as a positive discrepancy. If the former is less than the latter, there is a gain. That is treated as a negative discrepancy..."

34. As the judgment explains, the operation of Horizon as an accounting system is effectively dependent upon the SPMR inputting the correct information into the system.
35. One issue which has occurred with some frequency is that an SPMR has falsely declared onto the Horizon system the cash and/or stock position in order to conceal a discrepancy. This is likely to constitute the criminal offence of false accounting. When this has occurred it has rendered it more difficult, if not impossible, for POL (and possibly the SPMR) after the event, to establish the last point at which the accounts were correctly declared and locate the circumstances in which the discrepancy occurred.
36. The Horizon system is the subject of three different industry standard evaluations: ISA3402 audits (carried out by Fujitsu and Ernst & Young); Payment Card Industry Data Security Standards (carried out by Information Risk Management plc, focussing on cardholder data); and Bureau Veritas ISO27001 reports (over the Fujitsu networks). We have been provided with, and looked at, copies of these reports for 2010 as a sample of those available.

(D) Training

37. Although there is good deal of dispute about the level and quality of training SPMRs received in particular cases, Second Sight's Part One Report sets out the levels of training which POL sought to provide at different times, and we adopt that description here.
38. In brief, when Horizon was first introduced in 2000-2002, SPMRs were given classroom training and then 10-11 days of on-site training and support, followed by one day of support on balancing at the end of a trading period. In 2003-2006 new SPMRs received between five and ten days of classroom training if they chose it, or five to ten days of on-site training and support, followed by one day of support on balancing at the end of a trading period. In 2007-2011 new SPMRs received between five to ten days of classroom training on sales and products and then six days of on-site training and support, followed by one day of support on balancing at the end of a trading period. Telephone calls were made at the interval of one and six months, with a one day site visit after three months.
39. Training was voluntary and SPMRs who had experience of working in Post Offices may have chosen not to receive additional training. Further training could be requested from POL. SPMRs are responsible for the training of their own staff.

(E) Support

40. POL provides various methods of support to SPMRs, in relation to Horizon and the more general operation of the branch. There two different telephone helplines which can be called.

41. The Network Business Support Centre (“NBSC”) is operated by POL (although prior to 2012 it was effectively operated by Royal Mail) to provide support for all operational issues arising in branch, including queries on the operation of Horizon and on balancing issues. It has been in place since 1999. Queries which cannot be resolved by the call-handler, or are not resolved to the satisfaction of the caller, can be transferred to a second tier of more experienced call-handlers or to managers. Branch visits may result where a problem does not appear to be fixed over the telephone.
42. NBSC call-handlers receive a four week classroom training course which includes a Horizon test terminal, and then two weeks of supervised call-handling. Call-handlers will principally answer a query by reference to a detailed computerised encyclopaedia of explanations known as the Knowledge Base. The Knowledge Base is periodically updated to reflect changes in products and processes.
43. The NBSC produces a log of all calls. This records the date, the branch, the caller, a brief description of the problem, the call-handler and the resolution. Those logs are available back to 2000, but they are reliant on the notes made by the call-handlers at the time. In many cases, the resolution notes only that the caller was given an answer from the Knowledge Base. Calls to the NBSC were not routinely recorded.
44. The Horizon Service Desk (“HSD”) was, until 2014, operated by Fujitsu and deals with technical issues arising out of Horizon which an SPMR has not resolved through the online information available to them. An engineer will be sent out where a problem is not resolved. The HSD and NBSC transfer calls between each other when the SPMR has called the incorrect helpline. HSD call logs are retained for seven years.
45. Support is also provided through in-branch field visits by advisors. They visit branches to provide training, additional training or support when requested

and to carry out audits or other checks. Branches also have managerial relationships, which may involve on-site visits from time to time.

(F) Third Party Business Involvement

46. POL is a point of sale and contact for a variety of products and services provided by third parties. For example, Government documents such as DVLA forms can be purchased from Post Offices, and utility bills can be paid through the Horizon system. Similarly, many customers will pay for products, or make cash withdrawals, from their bank account at the Post Office counter.
47. Important examples of third party involvement are: ATMs, which are (now) provided through Bank of Ireland and require the SPMR to account for the cash held in and transacted through the ATM; lottery products, which involve accounting for the stock of scratchcards and the cash purchases of all lottery products (and which can require reconciliation where the sales are made through the SPMR's separate retail business); and Paystation, which is a payment device used for certain utility payments and top-ups. All of these separate products and equipment require manual inputting into the Horizon system to ensure that the SPMR accounts for the cash and stock passing through his branch. The third party (such as Bank of Ireland) will receive their own records directly from the equipment, and discrepancies between those electronic records and the Horizon records manually inputted by the SPMR may require adjustment.
48. It is unnecessary to go into further detail about the range of third party involvement, but we recognise that the reconciliation exercises can throw up practical problems for SPMRs, and that the involvement of third parties with their own separate processes will have a tendency to delay POL's ability to

resolve any apparent discrepancies between the Horizon accounts and third party records.

(G) Accounting Discrepancies

49. SPMRs are required to balance their accounts at the end of every monthly trading period. In order to roll over into the next trading period, the account must balance, i.e. it must not show a positive or a negative discrepancy. Good SPMR practice will involve the SPMR carrying out a weekly balance to ensure any discrepancy is promptly identified, and a daily cash declaration on Horizon to show how much cash is being held in the branch.
50. Where there is a discrepancy which cannot be corrected by reversing figures to reflect the true picture (such as to correct an overstatement of stock), the SPMR may make good that discrepancy. Where the discrepancy is small, and is likely to be because of minor errors at the counter, this is often the approach adopted.
51. Where the sum is larger and the SPMR cannot or does not wish to simply pay it off, or the SPMR does not understand how it arose, there are two choices. During the monthly trading periods, the discrepancy can be moved to a local suspense account while it is investigated by the SPMR with the assistance of POL. Where there is, or remains, a discrepancy at the end of a trading period the discrepancy must be settled centrally, i.e. placed into a central POL suspense account, for resolution. We were informed by POL that in order to settle centrally, an SPMR will be reminded that he is liable for any negative discrepancy which is not resolved. This reflects the position under the contract and at common law, as set out above.

52. A discrepancy may be resolved through the issue of a Transaction Correction by POL. These may occur in a variety of situations, but will reflect POL having information that shows that information inputted onto Horizon by a branch was incorrect. This may be to the benefit or disbenefit of the branch. For example, Horizon may have been told that more cash was sent back (or 'remmed out') to POL in a pouch than the pouch actually contained. Alternatively, a cheque thought to have been lost may have been discovered. Sometimes a Transaction Correction will be issued because of information from a third party, such as a bank, that a transaction was cancelled. A Transaction Correction issued to a branch must be acknowledged and accepted by the SPMR before it affects the branch accounting position.
53. Discrepancies through third party equipment – such as ATMs and Paystations – are resolved through Transaction Acknowledgements issued via the third party where there is a difference between the records of the equipment sent directly to the third party and the figures manually inputted onto Horizon. Again, a Transaction Acknowledgement issued to a branch must be acknowledged and accepted by the SPMR before it affects the branch accounting position.

(H) Investigation of Discrepancies

54. Where a significant shortfall is discovered at an audit, or is reported to POL, POL will conduct an investigation into that shortfall and the responsibility of the SPMR for it. That investigation could lead to a decision as to whether the contract with the SPMR should be terminated and/or whether criminal charges should be laid in respect of the SPMR's conduct. Investigations are carried out by POL's own investigations and security department. POL has shown us figures that indicate that between around 3,000-4,000 audits took place a year in 2011-2014. Only a small proportion of these were random; most were either risk-based or on the occasion of a change of SPMR.

55. In England and Wales, POL conducts private prosecutions of criminal offences arising out of the misconduct of SPMRs. This is not in exercise of any special statutory power; it is simply the choice of POL to adopt this course of action. Thus decisions as to whether charges should be brought and what charges should be brought are made by POL employees (taking account of appropriate legal advice). Cases in Scotland are prosecuted by the Procurator Fiscal and in Northern Ireland by the Public Prosecution Service (with the assistance of POL investigators). We understand the difference between the approach across the UK reflects the different legal traditions.

IV. The Horizon Complaints

(A) Initial Complaints

56. The complaints and allegations made publicly and to POL about the Horizon system and associated issues commenced in earnest in 2009 with the establishment of the JFSA. The core of those complaints has always been that various SPMRs have been the subject of criminal prosecution, civil recovery and/or contract termination in respect of accounting discrepancies for which the SPMRs say they were not responsible. Instead, it is said that Horizon is responsible. A wider element of the allegations is that SPMRs received insufficient training and support in operating the Horizon system.
57. During the course of 2010 the JFSA entered into correspondence with Ministers and Members of Parliament about their concerns. The story obtained press coverage from the BBC's 'Inside Out' programme and articles in *Private Eye*.
58. From late 2011 to May 2012 James Arbuthnot MP pursued the allegations made by the JFSA and individual SPMRs with Minister and POL. In May 2012, at a meeting with James Arbuthnot MP and Oliver Letwin MP, POL agreed to engage a firm of forensic accountants to review Horizon. During the course of June and July 2012, following meetings with James Arbuthnot MP, other MPs and the JFSA, Second Sight Support Services Limited ("**Second Sight**") were instructed by POL to conduct the inquiry. The remit of their inquiry was to "*consider and to advise on whether there are any systematic issues and/or concerns with the 'Horizon' system, including training and support processes, giving evidence and reasons for the conclusions reached*".²

² 'The Second Sight Inquiry - the Detail', Appendix to the Second Sight Interim Report.

59. The deadline for the submission of cases and issues for the consideration of Second Sight was 28 February 2013. Some 29 cases were submitted through James Arbuthnot MP and 18 cases through the JFSA. Second Sight issued an Interim Report on 8 July 2013.

(B) The Second Sight Interim Report

60. We do not propose to summarise the entirety of the Second Sight Interim Report. It is sufficient to note some of the core statements that it made. Second Sight defined the “Horizon system” to include not simply the software, but also all aspects of using the system, the training and support provided to use the system and the audit and investigation process into discrepancies shown by the system (paragraphs 1.4-1.8). Second Sight noted that the limited number of complaints it received “*suggests that the vast majority of SPMRs and branches are at least reasonably happy with the Horizon system*” (paragraph 1.11).
61. The Interim Report stated that Second Sight had carried so-called “Spot Reviews”. These were considerations of particular issues in certain of the cases referred to them. We have seen a number of those Spot Reviews. Four of them were appended to the Interim Report. Second Sight stated that differences between POL and the JFSA had not been resolved, and POL had accepted only minor errors (paragraphs 5.6-5.7).
62. Second Sight noted that POL had disclosed to it two defects in the Horizon software which had impacted branches in 2010 and in 2011-2012, as well as a further (unspecified) incident (paragraphs 6.4-6.10).
63. Second Sight criticised POL for a lack of thoroughness in their investigations of shortfalls, and a focus on asset recovery rather than establishing the underlying root cause (paragraphs 7.3, 7.6). A list of issues of concern was set out (paragraph 7.2).

64. The Interim Report reached various preliminary conclusions (paragraph 8.2). Importantly, those included that *"We have so far found no evidence of system wide (systemic) problems with the Horizon software"*. They also included conclusions that unusual combinations of events could give rise to a situation where timely information is not available to an SPMR; that POL's attitude to problems could appear unsympathetic or unhelpful; and that investigations did not identify root causes.

(C) The Criminal Cases Review Commission

65. The CCRC is a statutory body with the power to refer criminal cases to the Court of Appeal where it considers that there is a real possibility a conviction may be overturned. POL was first contacted by the Criminal Cases Review Commission (**"the CCRC"**) in July 2013. Some SPMRs have referred their own convictions to the CCRC. This has included some cases in which conviction followed a guilty plea. None of the convictions was itself the subject of an appeal. POL is co-operating with any and every request for assistance from the CCRC.
66. POL has informed us that at the present time the CCRC is considering 23 cases. 19 of those involve individuals who have made a complaint under the scheme discussed below. At present it is unknown when the CCRC is likely to reach decisions on whether any case should be referred back to the Court of Appeal. POL have informed us that they understand that is unlikely to be before the summer of 2016.

(D) The Mediation Scheme

67. In an announcement of 26 August 2013, POL established an independent mediation scheme for SPMRs, overseen by a Working Group ("**the Scheme**"). The membership of the Working Group comprised POL, the JFSA and Second Sight. Sir Anthony Hooper was appointed the Chairman of the Working Group on 29 October 2013. The Working Group sought applications from SPMRs who had a complaint about the Horizon system or an associated issue. Applicants would have their cases investigated by Second Sight, with a view to mediation of the dispute between the SPMR and POL.
68. By the time the Scheme closed on 18 November 2013, it had received 150 applications, of which 136 entered the full Scheme (ten were resolved before entry and four were ineligible). 43 applications were from SPMRs who had been convicted of a criminal offence.
69. POL contributed £1,500 (ex-VAT) to each Scheme applicant for the purposes of obtaining professional advice to articulate the complaint. Each applicant submitted a case questionnaire review ("**CQR**") to POL and Second Sight. In some cases evidence was supplied. Each case was then the subject of detailed investigation by the Post Office Investigations Department which produced a Post Office Investigation Report ("**POIR**") for each case on the basis of the evidence which could be examined, given the passage of time. This evidence – depending on the application of the seven year data retention period – included Horizon transaction records, NBSC call logs, HSD call logs, training records, audit records and other related correspondence. The POIR and supporting evidence were provided to Second Sight, who would examine the material and issue a case review report ("**CRR**") setting out the areas of agreement and disagreement, the conclusions Second Sight could draw and whether mediation was appropriate.
70. The Scheme applicant was provided with the POIR and the CRR. The Working Group considered the suitability of each case for mediation. Cases which were accepted as suitable, and which POL agreed to mediate, were

referred to the Centre for Effective Dispute Resolution (“CEDR”) for mediation to take place. POL met the costs of the mediation, and provided up to £1,250 (ex-VAT) to applicants for professional advice in relation to the mediation.

71. During the course of 2014, real concern grew on the part of POL and the JFSA about the slow progress which was being made concerning Scheme investigations. (We have seen POL Board minutes which indicate that this concern actually started in mid-2013, along with real concerns over the performance and capabilities of Second Sight.) The JFSA objected to POL’s approach to mediation. Public criticism of POL, including of its approach to the Scheme, on the part of MPs (particularly James Arbuthnot MP) grew during the year. On 9 December 2014, James Arbuthnot MP appeared on the Today programme and contended that POL was sabotaging the Scheme and refusing to mediate 90% of cases. (This figure does not appear to us to have been accurate, but POL has considered itself bound by confidentiality and so has not published any different figure.)
72. By early June 2014 POL was having internal discussions through the Board’s Project Sparrow Sub-Committee about the possibility of closing down the Working Group and resolving the cases in another way. POL was also considering the replacement of Second Sight.
73. On 10 March 2015 POL announced it would mediate all Scheme cases, save for those which had been the subject of a court ruling (whether or not to mediate those cases was to be considered case-by-case). This decision effectively removed the core purpose of the Working Group. POL announced the closure of the Working Group the same day.
74. Second Sight were instructed to complete the outstanding CRRs, and did so in July 2015. This brought to an end their engagement by POL.

75. The Scheme cases continue to go through the mediation process, although we note that the JFSA encouraged applicants to withdraw from any mediation process and a number have done so.

(E) The Substantive Second Sight Reports

76. During the course of the Scheme, Second Sight issued their substantive report in two parts. The Part One Report was issued on 25 July 2014. It was in essence a narrative describing how a Post Office branch worked, the systems used, and the types of products and issues dealt with by SPMRs on a regular basis. Part III of this Review covers similar ground, but in considerably less detail.
77. A first version of the Part Two Report was issued by Second Sight on 21 August 2014. POL produced a reply document in September. Following the closure of the Working Group, POL also instructed Second Sight on 10 March 2015 to issue a completed version of their Part Two Report.
78. The final Part Two Report was issued on 9 April 2015. Where we refer to the Part Two Report in this Review, we mean the final version of it. POL also produced a reply to the Part Two Report.
79. We do not intend to summarise POL's reply, and it would be disproportionate to summarise the entirety of the Part Two Report. However, it is appropriate to highlight some key elements and conclusions of that Report which are particularly relevant to our work.
80. Second Sight report that their work was limited by POL's refusal, with which they did not agree, to provide three categories of information. Those were: (a) the complete legal files; (b) the complete email records of POL employees

working at Fujitsu's Bracknell office for 2008; and (c) detailed transactional records relating to POL's suspense account (paragraphs 2.1-2.19). As a result of this failure, Second Sight concluded that POL *"did have, and may still have, the ability to directly alter branch records without the knowledge of the relevant"* SPMR (paragraph 2.12).

81. The contract between POL and SPMRs was not always provided to SPMRs and the contractual terms, placing responsibility for losses on SPMRs, is *"unfair"* (paragraphs 3.6-3.8, 6.1-6.16).
82. Horizon was insufficiently error repellent, in that *"the majority of branch losses were caused by 'errors made at the counter'"*, which could have been avoided if the systems had been improved. Second Sight took the view that POL had little incentive to do so (paragraphs 3.11-3.14).
83. The Report addressed 19 thematic issues drawn from the Scheme cases (paragraph 1.10). (Only the more significant ones are addressed here.)
 - (1) The ATMs introduced a vulnerability to error and fraud, had on two occasions printed corrupted data and were likely at some point to have been the subject of malware and/or criminal theft/fraud (paragraphs 7.1-7.38).
 - (2) Accounting for foreign currency transactions was fundamentally flawed because Horizon is a single currency system and individual transactions could not be seen by POL (paragraphs 9.1-9.12).
 - (3) The sale of lottery scratch cards prior to 2012 had too easily allowed for errors in stock scanning, coupled with inconsistent NBSC advice and delays in the issue of Transaction Corrections (paragraphs 10.1-10.15).

- (4) Training was “*probably adequate for people who had reasonable levels of IT skills, numeracy and accuracy*”, but it was not sufficiently clearly monitored that the training was properly delivered and the ability to request training did not help those who did not realise what they were doing wrong (paragraphs 11.1-11.9).
- (5) Errors were less attributable to inadequate training than adequate support from the NBSC, which would have benefitted from sending written instructions. Second Sight recorded the complaint that SPMRs would be told that “*it will sort itself out*” but did not uphold or reject that complaint. They accepted that the NBSC could not be expected to determine how discrepancies arose and expectations of that facility were unreasonable (paragraphs 12.1-12.9).
- (6) The periods of delay in issuing Transaction Corrections, often of high value, posed real difficulties for SPMRs and might cause a temptation to falsify the accounts in the hope that a subsequent Correction would resolve the problem (paragraphs 13.9-13.14.)
- (7) Second Sight addresses the POL denial that it is possible to amend branch data remotely, referring to a number of documents disclosed to it from 2008 and 2010 which refer to correcting live data without the knowledge of the SPMR, altering balances at the branch, although there was no detail as to whether such amendments had been made (paragraphs 14.1-14.19). They also recommended that where Horizon has reversed a transaction (because a terminal is timed out before transaction is settled and completed), the records should clearly show that it was the system which carried out the reversal rather than the user. There was no dispute that this would not have caused a loss (paragraphs 15.1-15.7).

- (8) Cash errors at the counter would be hard to detect, particularly following the removal by POL of paying-in paper slips in 2008 (paragraphs 20.1-20.20).
- (9) It was possible for losses to occur in a branch as a result of power and telecommunications failures, where it has not been possible for the SPMR to follow the correct recovery procedures, particularly where the power to a screen does not return and so messages are not displayed to the user (paragraphs 21.5-21.15).³ It was possible, but unclear, that hardware equipment failures could have caused losses (paragraphs 23.1-23.4).
- (10) Some of the people appointed to an SPMR role *“may have been unsuited”* to that role (paragraph 21.25). POL’s selection processes failed to reject candidates who showed signs of inadequacy at interview and *“proved themselves to be wholly unsuitable”* (paragraph 21.26).
- (11) In the *“specific and limited circumstances”* of a person who was *“unsuitable, inexperienced or inadequately trained”* who encountered problems (particularly relating to the recovery process) Horizon was not *“fit for purpose”* (paragraph 21.27).
- (12) POL is responsible for detecting and acknowledging system or procedural flaws that have allowed errors to repeatedly occur and not providing the improvements to reduce or remove those errors (paragraphs 21.30-21.31).

³ We confess that we find this difficult to follow. As the recovery process cannot be commenced without a user being logged onto Horizon, and logging on would require the screen to be working, it is not easy to understand how Horizon could be functioning in order to go through the recovery process whilst the screen does not work for the user to see any messages. However, we accept that the recovery process may well be complicated (as indeed Fujitsu has told us) and the SPMR faced with a customer at the counter and power failures may well make mistakes under pressure.

- (13) POL investigators were focussed on seeking evidence of false accounting to aid asset recovery rather than identifying the root cause of losses. In some cases, a charge of theft did not seem to have been supported by the evidence and was dropped as part of a plea bargain. Some of those decisions may have been contrary to the prosecutor's code (paragraphs 25.1-25.24).
- (14) In some circumstances Horizon "*can be systematically flawed from a user's perspective and Post Office has not necessarily provided an appropriate level of support*" (paragraph 26.8).

(F) Parliamentary Debates

- 84. We are aware of a number of Parliamentary discussions of the impact of the Horizon system of SPMRs. We have seen and considered the records of the following occasions:
 - (1) House of Commons debate of 9 July 2013;
 - (2) Westminster Hall debate of 17 December 2014;
 - (3) The hearing before and evidence given to the Business, Innovation and Skills Select Committee on 'The Post Office Mediation Scheme and the Horizon IT System' on 3 February 2015;
 - (4) House of Commons debate of 29 June 2015; and
 - (5) Prime Minister's Questions on 1 July 2015.
- 85. We do not propose to further summarise or discuss these publicly available records. It is evident that there has been an on-going and high level of Parliamentary interest in the issue.

(G) BBC Panorama Programme

86. On 17 August 2015 the BBC broadcast a Panorama programme '*Trouble at the Post Office*'. It featured a number of SPMRs (who have been the subject of criminal convictions, including some who had pleaded guilty to criminal changes), James Arbuthnot MP, Professor Charles McLachlan (who had appeared as an expert witness in defence of Seema Misra when she was convicted of theft and false accounting) and a former Fujitsu employee named Richard Roll.
87. Mr Roll's participation was the only genuinely new information we have seen in the broadcast, but it was of potential significance. He said that he and his fellow Fujitsu employees saw a "*lot of errors, a lot of glitches*" on the Horizon system and that they "*went in the backdoor and made changes. Sometimes you would be putting in several lines of code in at a time. If we hadn't done that then the counters would have stopped working*".
88. We have been provided with various correspondence between POL and the BBC in which POL complains about the reporting of the BBC. We do not propose to address any of that material.

(H) Cost to POL

89. POL has informed us that as at the beginning of December 2015, it has spent some £10 million on this matter. It has incurred over £1.5 million on Second Sight and some £3.3 million on other professional fees, including legal advice. The investigations by POL of each of the 150 Scheme cases cost £3.7 million. More than £500,000 has been spent in POL's contributions to Scheme applicants receiving professional advice on their complaints.

V. Criminal Prosecutions

90. It is not surprising that it is the prosecution of SPMRs by POL which has been the most emotive issue we have seen in the course of this Review. 43 of the Scheme applicants involved criminal convictions, 37 of them of the SPMR directly. The vast majority of these were for the offence of false accounting (contrary to section 17 of the Theft Act 1968). In at least some cases, SPMRs were also the subject of a charge of theft (contrary to section 7 of the Theft Act 1968). Both offences require the prosecution to prove dishonesty, but the offences are directed at different conduct and an SPMR may be guilty of false accounting without being guilty of theft, in large part because the false accounting offence is committed even where the SPMR false declares he has more cash than he actually does, even the gain this suggests is only intended to be a temporary accounting gain in the hope that the money will turn up (*R v Eden* (1971) 55 Cr App R 193).
91. Those subject to criminal convictions, or those on their behalf, have raised broad areas of concern:
- (a) whether their convictions were consequent on flaws in the Horizon system and/or because of a failure properly to disclose such flaws during the criminal proceedings, and for such reasons are not safe;
 - (b) whether POL acted appropriately in cases where it pursued charges both of false accounting and of theft (or whether POL pursued theft charges in cases where there was no proper basis in evidence to do so simply to encourage a guilty plea to the false accounting charge); and
 - (c) whether it is appropriate for POL to conduct private investigations and prosecutions (rather than leaving matters to the police and the CPS).

(A) Safety of Convictions and Disclosure of Information

92. We have not sought to review the safety of any particular individual's conviction. As indicated above, the CCRC is considering 23 cases (including 19 Scheme applicants). Consideration of these cases by the CCRC is the appropriate course. POL is co-operating with the CCRC. That is the appropriate course of action for POL to take.
93. It has been suggested to us that POL should write to the CCRC accepting that the prosecutions should never have been brought and requesting that they be referred to the Court of Appeal. We do not agree. This is not how we understand the CCRC to operate; it will form its own view on the merits of the cases, what happens to them (and each of them involves a conviction by a criminal court) is not now within the gift of POL. POL cannot simply withdraw a conviction, whether following a trial or a guilty plea. Moreover, based on what we have seen, we do not consider there to be any substantive basis upon which it would be appropriate for POL to act in this way.
94. It has also been suggested to us that POL seek to support applications for Royal Pardons. We do not agree that this would be appropriate either. Pardons are ordinarily granted (in exercise of prerogative powers) only where the Queen is satisfied that that no criminal offence took place. Thus the standard for action goes beyond that presently being considered by the CCRC.
95. We emphasise that none of the Second Sight reports identify systematic flaws in the Horizon system likely to have caused the losses incurred at the Scheme branches. Rather, operator errors at the counter is the usual cause identified by Second Sight (with the likelihood of those errors being exacerbated by a

problems in training and support). We address Horizon in more detail in the next section, but POL is entitled to note at this point in time that there is no evidence that the Horizon system – i.e. the computer system – is responsible for the losses which have resulted in convictions.

96. So far as concerns disclosure, POL has undertaken a considerable exercise reviewing its compliance with its disclosure obligations (past and present). In 2013 it instructed Cartwright King Solicitors to review all criminal prosecutions POL commenced since 1 January 2010 with a particular focus on identifying those cases in which disclosure should now be made of the Second Sight Interim Report and/or the Helen Rose Report (which we address in the next part of this Review). Cartwright King is the firm which conducts criminal law work on behalf of POL. The scope and scale of that review was the subject of oversight and advice from Brian Altman QC, who delivered interim advice on 2 August 2013 and a general review on 15 October 2013. We have read those opinions and it is clear to us that Mr Altman QC considered both the process adopted by Cartwright King, and their actual decisions in a sample of cases, to be reasonable and appropriate.
97. We have also reviewed a small sample of the reviews conducted by Cartwright King in Scheme cases M060, M103 and M149. Without being criminal law experts, it also seemed to us that Cartwright King were approaching their review logically and in detail, being unafraid to require disclosure be made where they felt it appropriate, and to recognise where it was irrelevant in the light of the particular facts of the case.
98. We are accordingly content that POL has acted reasonably in its handling of disclosure issues arising in relation to past criminal prosecutions.
99. We are also content that it would be inappropriate for POL to conduct a wider review of the safety of any particular conviction when that work is being

independently carried out by the CCRC. POL should continue to co-operate with and support the CCRC process and address any matters which arise as a result in due course.

(B) Sufficiency of Evidence

100. As we understand it, the allegation is that POL has too readily brought a charge of theft, which is said to be more serious than false accounting, with aim or effect that the SPMR is pressurised into pleading guilty to false accounting in the hope that the theft charge is dropped, and because a theft charge would more readily enable POL to recover its losses. We understand that there are approximately 18 Scheme cases in which this, or something similar, occurred. We have also read the full trial transcript in *R v Seema Misra* in which a jury convicted the defendant of both theft and false accounting.
101. Whether POL had sufficient evidence to bring a charge of theft alongside charges of false accounting is an accusation raised by a number of Scheme applicants, as well as by Lord Arbuthnot with us. It has also been a matter raised by Second Sight in their Part Two Report.
102. We are aware that the suggestion has gained particular traction in Scheme case M035 (a case in which there was guilty plea to false accounting, in return for which the theft charge was not pursued). In this case certain documents in the prosecution file indicated that initial POL investigators could not find evidence of theft (although there was clear evidence of false accounting), but theft was nonetheless charged. We have seen those documents and have noted the absence of clear documented rationale for charging theft.⁴

⁴ We do not assume, as we suspect some have done, that the absence of a documented rationale means that no rationale existed or could have existed. Counsel clearly felt properly able to settle the theft charge. However, the lack of clear reasons for this decision does inevitably give rise to cause for doubt.

103. We note Brian Altman QC's advice of 8 March 2015 that it is not a helpful question to ask whether theft and false accounting are offences of equal seriousness, both being dishonesty offences with a maximum sentence of seven years' imprisonment, because the seriousness is dependent on the nature of the specific allegation rather than the charge *per se*.
104. We entirely accept that the decision to plead guilty is a matter for the defendant alone. Any concerns they have about the legal advice they received at the time is a matter only the defendant can pursue and is not the responsibility of POL. Similarly, it is always open to the defendant to challenge the sufficiency of the evidence disclosed to him or her and seek to have that charge dismissed.
105. POL's position is that its prosecutorial decisions are always taken in accordance with the Code for Crown Prosecutors, which requires that there be sufficient evidence to provide a realistic prospect of conviction, and the prosecution must be in the public interest. POL has referred us to the Cartwright King disclosure review exercise, noting that Cartwright King also expressed views in their advice as to whether POL should oppose any appeal brought, suggesting that they must therefore have considered the evidence involved. POL has also explained to us that because of these points, and because any review would be carried out with the benefit of hindsight, it would not be an appropriate course of action to review now the prosecution files to reconsider the sufficiency of evidence issue.
106. We do not agree. We have reached the view that this issue is one of real importance to the reputation of POL, and is something which can feasibly and reasonably be addressed now⁵. It is clear that it is not an exercise which has

⁵ We are aware from references in POL's Board minutes that before 2012, the prosecutorial decisions relating to SPMRs were in fact being taken by the Royal Mail

been carried out so far, and Cartwright King were not asked to consider the sufficiency of the evidence when undertaking their disclosure review. We do not think it is safe to infer that any advice Cartwright King gave on POL's position on any appeal must have involved a full evidential review. The allegation that POL has effectively bullied SPMRs into pleading guilty to offences by unjustifiably overloading the charge sheet is a stain on the character of the business. Moreover, it is not impossible that an SPMR would have felt pressurised into pleading guilty to false accounting believing it to be less serious when they might not otherwise have done so; the phenomenon of false confessions is well known. For the avoidance of doubt, we do not consider that this issue arises in cases where there has been a conviction following trial; the concern is only where an SPMR has pleaded guilty, and an additional charge has been dropped as a result.

107. Considering this point now will also address one of the areas of concern expressly raised by Second Sight in their Part Two Report, namely that the full legal files of cases were not provided to them. We express no criticism of POL in this regard. Whatever else Second Sight were qualified to express a view on, they were not well-placed to opine on the appropriateness of prosecution decisions or the impact of those decisions upon the safety of any subsequent convictions. But this does not mean that no-one else should undertake the task.
108. However, we harbour some doubts about whether the bringing of a charge without sufficient evidence to provide a realistic prospect of conviction could be said, under the criminal law, to cast doubt upon the safety of the conviction of a defendant who has pleaded guilty. We recognise POL's position in this respect. Accordingly, we recommend as a first step that advice be specifically sought – perhaps from Brian Altman QC – as to whether such

part of the business. However, as they were being done in the name of, and on behalf of, POL we do not consider that a material issue.

circumstances could amount to evidence that the conviction on a guilty plea was unsafe.

109. Following that advice, it will be a matter for POL to consider whether it is reasonable to instruct external lawyers – again, perhaps under the supervision of Brian Altman QC – to review the prosecution files of the relevant Scheme cases to establish, on the basis of the facts and law at the relevant time, whether there was sufficient evidence in accordance with the Code to bring the charges which were brought. Assuming the legal advice is that the safety of the existing conviction could be impacted by an unjustified charge, we take the view that it would be reasonable for POL to take this step and we so recommend.

(C) POL as Prosecutor

110. Criticism has been levelled at POL for conducting private prosecutions, in reliance on its own investigations. It is said (a) that POL does not have the benefit of the specialist criminal expertise of the police; and (b) that prosecution decisions lack the independent view that is applied by the CPS. However, POL is as entitled to bring private prosecutions as any other legal person (although few major commercial entities do so for internal matters) and their investigations and prosecution decisions are designed to be carried out to the equivalent police and CPS standards. Ensuring the police investigate complicated financial records and transaction logs may also not always be easy to ensure.
111. We do not address this issue in detail because nothing can now be done about the historical exercise of the prosecution function. Any alteration would be for future cases only. We have seen the detailed legal advice provided by Brian Altman QC, dated 31 October 2013, on this topic and asked POL for a formal

letter explaining how it was responding to the recommendations made by Mr Altman QC. POL provided us that letter on 18 December 2015, along with a detailed Prosecution Policy for England and Wales which is to be submitted to the Board for approval on 22 January 2016.

112. In the light of the detailed advice already received by POL, we do not propose to make any recommendations on these matters. We note that the proposed new policy does not propose ceasing to do so in England and Wales. That is a matter for the business and reputational judgment of POL.

(D) Recommendations

113. We recommend as follows.

- (1) Legal advice be sought from counsel as to whether the decision to charge an SPMR with theft and false accounting could undermine the safety of any conviction for false accounting where (a) the conviction was on the basis of a guilty plea, following which and/or in return for which the theft charge was dropped, and (b) there had not been a sufficient evidential basis to bring the theft charge.
- (2) If such a conviction could be undermined in those circumstances, that counsel review the prosecution file in such cases to establish whether, applying the facts and law applicable at the relevant time, there was a sufficient evidential basis to conclude that a conviction for theft was a realistic prospect such that the charge was properly brought.

VI. The Horizon System

114. As elsewhere in this Review, when we refer to the Horizon system, we mean the computer programme and software developed and supplied to POL by Fujitsu, and which POL requires to be used across all of its branches. This is this how an ordinary person would interpret a reference to the Horizon system. It also reflects the roots of the concerns of the SPMRs, although the reach of those concerns has expanded over time. In essence, the allegation since 2009 has been that Horizon is a flawed system which causes, through software errors and possible third party action, branch balances to be altered to the disadvantage of the SPMR. SPMRs are, it is said, being held responsible for losses which are incorrectly generated by Horizon such that they do not reflect real losses to POL. POL has always denied that there is any evidence that Horizon, as opposed to user error on the part of SPMRs and their staff, has caused the shortfalls for which the SPMRs are accountable.
115. We have been provided a great deal of documentation by POL and Fujitsu relating to the functioning of the Horizon system. We have reviewed all of that documentation, notwithstanding that it is highly technical. However, we are not information technology or computer coding experts and we have not sought to investigate, review or test the functioning or schematics of the Horizon system ourselves. Instead, we have considered the broad areas in issue, what has occurred and whether anything might now be done.
116. We consider that there are three broad areas of concern and we address them in turn:
- (a) Horizon system bugs;
 - (b) The thematic issues identified by Second Sight; and

- (c) Whether branch balances can be affected by third party alterations without SPMR knowledge.

(A) Bugs in the Horizon System

- 117. It seems to us entirely unremarkable that the Horizon system, which is enormous in terms of the range of matters it deals with and the number of users it has, will occasionally discover bugs, errors or glitches in the way that it works. (For ease we will refer to these as bugs.) Some of those bugs may impact on the financial position of a branch, either positively or negatively. We do not understand POL or Fujitsu to suggest anything otherwise. The important point is the ease with which such bugs are noticed and corrected, with remedial action to any financial position taken where necessary.
- 118. We are aware of a number of bugs which have been detected by Fujitsu through their own work or the reporting of problems to them by SPMRs via POL. These instances appear to be as follows.
 - (1) The Calendar Square, Falkirk problem discovered in 2005 (fixed in 2006). We have seen this described in some detail in the evidence and cross-examination of Mr Jenkins of Fujitsu in the criminal trial of *R v Seema Misra*. It involved a failure by Horizon to recognise transfers between different stock units and was visible as a receipts and payments mismatch. Due to the antiquity of the issue, Fujitsu could not confirm to us whether any other branches had been affected by this problem.
 - (2) The receipts and payments mismatch problem, discovered in 2010 (see the Interim Report, paragraph 6.5). This impacted 62 branches.

- (3) The local suspense account problem, which occurred in 2011 and 2012 (and fixed in 2013) (see the Interim Report, paragraphs 6.6-6.9). This impacted 14 branches. Fujitsu explained to us that it reoccurred because a particular balance reappeared each year in the annual accounts between 2011-2013 until it was drawn to their attention and fixed.
 - (4) The Second Sight Interim Report refers at paragraph 6.10 to another bug which was disclosed in witness evidence in court proceedings. It is not clear to us whether that was the Calendar Square incident, or the unusual non-polling event for 12 days at Winford Post Office referred to by Mr Jenkins in his statement in *R v Grant Allen*, to which we have seen reference.
 - (5) We have also seen a reference in articles in Computer Weekly in November 2015 to a further bug which lead to a branch being recorded as having remmed out cash to an outreach branch four times instead of once. Having raised this, we have been provided with Fujitsu's analysis of this bug to POL dated 10 December 2015 which explains that the problem arises where a certain succession of actions concerning cash pouches are entered, and then the system is left to time out, rather than being logged out on completion. Fujitsu describe the issue as having occurred 112 times since 2010 but that 108 of those were corrected at the time either by a transaction reversal by the SPMR spotting the duplication, or by a Transaction Correction issued by POL. Four occasions appear not have been corrected at the time. None of the uncorrected instances relate to Scheme cases.
119. Fujitsu confirmed to us that all of these bugs were generic ones; i.e. they could have affected any branch. The reasons they affected only certain branches were accidents of processing, as the particular chain of actions and steps

required for the bug to apply happened to occur only on those occasions in those branches. We accept, on this basis, that the general point POL makes that the Horizon system works effectively and accurately for the overwhelming majority of the time for the overwhelming majority of its users is accurate.

120. We have seen nothing to suggest that these specific bugs identified have been the cause of wider loss to SPMRs in the Scheme cases or otherwise. We see no basis upon which to recommend any further action in relation to those identified bugs now.

(B) Thematic Issues

121. Second Sight's Part Two Report addresses a number of areas of complaint raised in Scheme cases which they describe as 'thematic issues'. We agree with the analysis of POL and Fujitsu that few, if any, of those issues can sensibly be said to relate to any error in the operation of the Horizon system. Second Sight recognise, largely implicitly, that the themes they see are regular forms of errors at the counter on the part of SPMRs and their staff. It is notable that nowhere in their Part Two Report do Second Sight revise or disavow their conclusion in the Interim Report that they have found no evidence of systemic problems with the Horizon software.
122. We have reviewed a considerable amount of documentation concerning those thematic issues, including: the Second Sight Reports; POL's responses to those reports, including in draft; Spot Review paperwork; witness evidence provided by Fujitsu in the course of criminal and civil trials which explain some apparent concerns; and the detailed investigation work done in POIRs and CRRs for a sample of the Scheme cases. While we recognise that not every issue raised by SPMRs has been the subject of a categorical answer or

explanation (still less an accepted one), we consider that is inevitable in circumstances where the events in question happened some time ago and an understanding of how the problem arose is dependent upon an accurate explanation on the part of the SPMR.

123. In those circumstances, and alongside the very detailed investigations carried out into the specific facts of the 150 Scheme cases (discussed in more detail in Part VIII below), we do not consider it reasonable to recommend any further investigative work into the thematic issues specifically identified by Second Sight.
124. However, one aspect of the investigations carried out by POL into the Scheme cases does give rise to a potential area of further work. The investigations work was carried out by POL field support agents and some security personnel (who investigate potential criminal cases). Those individuals are experienced in the working of Horizon and in reading transaction logs, but they are not computing experts.
125. As discussed in (A) above, the Horizon system does occasionally suffer from bugs which have caused losses in some branches. Those bugs have been generic in the sense that they have the potential to affect any branch. It is often the case that those bugs are identified when an SPMR draws the attention of POL and Fujitsu to an odd situation which she cannot explain and which appears to have caused a discrepancy. We were told by POL that when carrying out their investigations into Scheme cases, investigators were looking out for unusual or unexplained patterns of transactions which might have required further technical examination by Fujitsu to confirm whether there was a wider bug. POL told us that no instance arose and Fujitsu were not asked to look at the records in any case. Fujitsu confirmed to us that they did not carry out any analysis of Scheme case records.

126. We consider that there is the possibility that an alternative approach to the transaction analysis would have provided greater certainty that there was no bug which had affected some of the Scheme branches. We take this view because POL's approach was necessarily 'bottom up', in the sense that it started from and focussed on the specific circumstances of the branch, looking at the transaction logs where necessary to review a particular complaint, be it general or specific (such as an allegation that Horizon had generated reversals, or Transaction Corrections came too late and were incorrect). A different, but complementary, approach would have been to also have a 'top down' analysis of the transaction logs of the Scheme branches undertaken by Fujitsu or an independent qualified party to search for patterns of unusual behaviour in individual branches, and across branches, on a purely data-driven analytical basis which might suggest a wider problem, which could then be cross-referenced with the branch fact-specific work carried out by POL (which may have explained some of those instances).
127. In our meeting with Deloitte, it was confirmed that this type of exercise was something they would have expected could be carried out across the relevant dataset (including non-Scheme branches as a control) to look for oddities or reconciliation errors. We are mindful that external organisations are more likely to suggest possible sources of work they could carry out, but the suggestion aligns with our own view of work which is at least potentially useful to rule out more comprehensively the possibility of a system bug affecting some Scheme cases.
128. We recognise that this has the potential to be a costly exercise. Deloitte suggested to us that it would be likely to take two people approximately four weeks to set the parameters of the work (which would include ensuring that they fully understood how transactions were recorded), and a further unspecified period to carry out the analysis. Fujitsu would obviously be in a position to carry out such a task more rapidly.

129. In the light of this, we do not consider it appropriate to recommend that POL take this step, but rather we suggest that it consider doing so. This is likely to involve costing the work and then balancing that cost against the possible benefits in the light of existing, substantial, spend on this matter and the other recommendations we make.

(C) Third Party Action

130. SPMRs have alleged that certain transactions appear in their transactions records which they did not perform. There is, as a result, an allegation – usually generic rather than specific – that branch records can be remotely altered by POL and/or Fujitsu to the detriment of the SPMR.
131. We have seen through the Scheme investigations that in the vast majority of cases specific transactions of concern have been readily explicable by common-sense explanations; such as sharing of user identifications, or SPMRs being on leave, or mistakes as to the timings. Other types of amendment of branch records – Transaction Acknowledgements relating to third party information, and Transaction Corrections issued by POL – require the acceptance of the SPMR before they are adopted into the accounts on Horizon. (In some of the Scheme cases, the shortfalls included unaccepted Transaction Corrections.)
132. A slightly different category is that discussed in the report drafted by Helen Rose on 12 June 2013 in respect of the Lepton branch, which formed part of Second Sight's Spot Review 1 consideration. That discusses a Horizon record that a transaction was reversed, and the assertion of the SPMR that he had not carried out the reversal. Ms Rose discusses the fact that it only became clear through detailed discussions with Fujitsu (in the person of Gareth Jenkins)

that the transaction was automatically reversed because of a system failure before completion, but that this was only clear at level of raw data not apparent in the transaction logs available to the SPMR and POL. Ms Rose raised the fact that the data available may appear misleading. In our view, the Rose report is evidently important and her suggestion for a change in data recording is eminently sensible. It is not, however, a true example of the system altering branch records, as it is really Horizon not completing a transaction due to a system failure of some kind. While this may have caused confusion on some occasions due to the lack of clarity in identifying that it was an automatic reversal, we do not consider that it gives rise to any wider issue which needs further consideration.⁶ Ms Rose's report was available to Second Sight who agreed with her that the clarity of the transaction logs should be improved.

133. We are aware that the consistent position of POL and Fujitsu has been to the effect that transaction records, and therefore branch balances, cannot be remotely altered without SPMR knowledge. For example, in Fujitsu's response to a draft of the Part Two Report, dated 15 September 2014, paragraph 11.2 states *"To be clear, any system generated transaction requires a branch user to acknowledge and accept this transaction and it is this operative's id that is recorded as the primary id"*. As an example of POL's expression of the position, we take its Response to the Westminster Hall Debate of 17 December 2014, dated January 2015, responding to the concerns raised by MPs during that debate. At paragraph 47, POL states that *"There is no functionality in Horizon for either a branch, Post Office or Fujitsu (suppliers of the Horizon system) to edit, manipulate or remove transaction data once it has been recorded in a branch's accounts."* At paragraph 48, POL discusses Transaction Acknowledgements

⁶ We note that Fujitsu's response to a draft of the Part Two Report stresses that a receipt is printed when an automatic reversal occurs to inform the SPMR, and that the SPMR in Spot Review 1 had indeed had such a receipt (paragraph 12.2 of the response).

and Transaction Corrections, reiterating that both be must be accepted by the SPMR.

134. The issue of the ability to remotely alter branch balances derives from the case considered in Spot Review 5, where an SPMR alleged that he had visited the Fujitsu Bracknell site in 2008, had been shown around by a member of POL staff, and had been shown the ability of the team to alter the recorded holdings of a branch. In their Part Two Report, Second Sight refer to their having requested email records for all of the POL staff working at Bracknell in 2008 but only having been provided with those for August 2008 (when the visit took place). Second Sight state these emails would be *"the most compelling evidence on this point"* (paragraph 2.10). Second Sight confirmed to us that it is only those wider tranche of emails to which they refer in paragraph 2.13 when they state that it is *"regrettable that we have not been provided with the further evidence we have requested in order to reach a properly researched conclusion"*. They nonetheless concluded at paragraph 2.12 that their *"current, evidence based opinion, is that Fujitsu / Post Office did have, and may still have, the ability to directly alter branch records without the knowledge of the relevant Subpostmaster"*.
135. We have seen a draft witness statement from Martin Rolfe, who is the POL employee who carried out the tour in question. He explains, as POL has always stressed and Fujitsu have confirmed, that POL employees at that time only had access to a test environment which was not connected to the Horizon network. He believes that the SPMR must have misunderstood what he was seeing, because the test screens would have looked like the Horizon system but were not live or connected to actual branches. Fujitsu have stressed to us that the live network is accessible only to Fujitsu employees in a secure area on a different floor of the Bracknell building.
136. This secure area is, we assume, what was being referred to by Mr Roll when he spoke to the BBC Panorama programme, in which it is said by the reporter that Mr Roll told him that *"financial records were sometimes changed remotely"*

without the postmaster knowing” and which Mr Roll describes as going *“in through the back door”*. Mr Roll, as we understand it, was a Fujitsu employee in the level of line support which would have had access to the secure area. The specific comments in the Panorama programme are, however, ambiguous and unclear as to precisely what is being suggested was done. It is difficult to deal with or respond to those comments as a result.

137. Second Sight’s Part Two Report also obtained and quoted from documents between Fujitsu and POL in 2008 and 2010, which suggested that Fujitsu had the capability to amend or correct live branch data. We have read the documents quoted in the Part Two Report at paragraphs 14.8-14.15 and it is undeniable that those documents clearly suggest that Fujitsu does have the ability to *“manually write an entry value to the local branch account”*. POL are noted by Second Sight to say that the references in those documents to amendments and corrections are inaccurate, because the system only allows additions to the records which can be seen by the SPMR.
138. Unlike Second Sight, we have also read two documents produced for POL by Deloitte in May and June 2014, entitled ‘Horizon: Desktop Review of Assurance Sources and Key Control Features’ and an accompanying ‘Board Briefing’. As we understand it, POL instructed Deloitte to carry out some review work as to how Horizon functions, the controls in place and the extent to which it was achieving the objectives of the system. Deloitte’s work was a desktop review of the operating documentation, including discussions with Fujitsu and POL. It did not involve access to the system itself or testing processes.
139. Deloitte’s Board Briefing highlights two aspects of Horizon which are relevant to this part of the Review and which we found to be more clearly set out than in any other document we have seen on this subject.

140. Deloitte note, following a review of the technical documentation, the ISA3402 and verbal discussions with POL and Fujitsu, that database access privileges which *“would enable a person to delete a digitally signed basket”* do exist, but are *“restricted to authorised administrators at Fujitsu”*. Those privileges *“would enable a person to create or amend a basket and re-sign it with a ‘fake’ key, detectable if appropriately checked”*. Deloitte had not identified specific controls to prevent a person with the appropriate authorisation carrying out this exercise in an unauthorised manner. The Briefing goes on to state that administrators had the ability to *“delete data from the Audit Store during the seven year period, which was a matter...contrary to POL’s understating...This could allow suitably authorised staff in Fujitsu to delete a sealed set of baskets and replace them with properly sealed baskets, although they would have to fake the digital signatures”*. When we spoke to Deloitte, they described this functionality as resulting, in essence, from the level of security contained in Horizon being a level down from the maximum.
141. We have seen a response from Fujitsu concerning this aspect of Deloitte’s investigation, which is based upon a summary of it provided by POL rather than the original Board Briefing itself. Fujitsu appear to accept that Deloitte’s interpretation is technically correct, but emphasise the wide range of security measures in the software, hardware and environment which reduce the risk of interference. Fujitsu also, properly, stress that there is no evidence that any such action has occurred and that likelihood of all the security measures being overcome is so small that it does not represent a credible line of further enquiry.
142. The fact that such activity is possible does not, of course, indicate that it has actually occurred. We find it difficult to see why it would have done so. Second Sight suggested to us orally that Fujitsu employees could, in theory, run a fraud in collusion with an SPMR whereby transactions were added to the branch records generating cash payments out. Even if it may be theoretically possible, there is no evidence for this and it is inherently

improbable. An alternative may be closer to Mr Roll's account, which would be that Fujitsu would use the functionality to correct system bugs without drawing them to the attention of POL or SPMRs in order to avoid any form of contractual penalty.⁷

143. The second issue expressly noted by Deloitte, but not clearly seen elsewhere in the documentation we have reviewed, is the existence of a third mechanism by which errors can be corrected: a Balancing Transaction. This is "*an emergency process, accessible only to restricted individuals in Fujitsu, which can create transactions directly in Branch ledgers. This process creates an identifiable transaction in the ledger, verbally asserted by POL staff to be visible to Sub-postmasters in their branch reporting tool, but does not require positive acceptance or approval by the Sub-postmaster.*" Deloitte explain that they were told that this tool had only been used once since 2008 – in 2010 – and generated a full audit trail.
144. Although it is not entirely clear, it is likely that the admitted 2010 instance is the same, or linked to, the 2010 documents referred to by Second Sight in their Part Two Report. However, Deloitte have carried out no work to assure themselves that it has only be used on the one occasion, or as to the position

⁷ In our discussion with Second Sight, we were told that Mr Roll had said (in a recorded interview with them) that he and his colleagues could, and did, make alterations which affected the account balances in branches. Moreover, he is reported as saying that on one night he and his colleagues had had to secretly correct 500,000 glitches in one night which could affect branch balances. Second Sight said that Mr Roll had told them that under the contract Fujitsu would be fined by POL £10 for every glitch which was reported to them. We asked Fujitsu for their response to this allegation, which Fujitsu did not recognise and could not explain. Fujitsu suggested that it would probably not be possible to correct 500,000 software glitches in one night and certainly was not true. They could not suggest a plausible alternative scenario which the allegation might have been confused with. Mr Roll's allegation is, of course, second-hand via Second Sight and without any sort of detail or accompanying evidence. It does not appear in the Part Two Report. It does not seem to us to be a solid basis upon which we could criticise either POL or Fujitsu. We also note that the existence of a recording came as something of a surprise to us, as we had not seen any reference to Second Sight possessing such evidence before. We do not know the status of that recording or the extent to which POL is entitled to have access to it as material gathered under Second Sight's terms of engagement.

before 2008. It is not clear to us why 2008 was the cut-off period for information, as this pre-dates the introduction of Horizon Online.

145. It seems to us that the Deloitte documents in particular pose real issues for POL. *First*, both the existence of the Balancing Transaction capability and the wider ability of Fujitsu to ‘fake’ digital signatures are contrary to the public assurances provided by Fujitsu and POL about the functionality of the Horizon system. Fujitsu’s comment we quote above seems to us to be simply incorrect, and POL’s Westminster Hall Response is incomplete. To the extent that POL has sought to contend that branch data cannot be remotely ‘amended’ because a Balancing Transaction does not amend existing transactions but adds a new one, we do not consider this is a full picture of Horizon’s functionality. The reality is that a Balancing Transaction is a remotely introduced addition to branch records, added without the need for acceptance by the SPMR, which affects the branch’s balance; that is its express purpose.⁸ POL has always known about the Balancing Transaction capability, although the Deloitte reports suggest the digital signature issue is something contrary to POL’s understanding.
146. We recognise that the existence of the two matters highlighted by Deloitte are most likely to be wild goose chases. It is improbable that they have been used beyond the identified instance. However, in the light of the consistent impression given that they do not exist at all, we consider that it is now incumbent on POL to commission work to confirm the position insofar as possible. Accordingly we make a recommendation to that effect.
147. *Second*, the Deloitte reports, or at least the information contained within them, may be disclosable under POL’s on-going duties as a criminal prosecutor. We

⁸ We note that POL did refer to the existence of the Balancing Transaction in its Reply to the Part Two Report of April 2015 at paragraph 14.5 (but had not done so in its earlier Reply of 22 September 2014 to the draft Part Two Report). However, it equates a Balancing Transaction with a Transaction Acknowledgment, without reflecting the fact that a Balancing Transaction does not require acceptance in the same way.

suspect that it is likely that such functionality would have been something an SPMR's defence team would have considered relevant to their case, even if the likelihood of remote Fujitsu interference is very limited. We do not know whether this information has been provided to the CCRC. But given that POL used a Balancing Transaction in 2010, it cannot say that the functionality was not known to it, and we have seen no reference to such capabilities in the witness evidence given by Gareth Jenkins of Fujitsu. These are matters on which specialist legal advice from external counsel, perhaps Brian Altman QC, should be sought and we so recommend.

148. However, we also wish to make clear that we do not consider any further steps need be taken in respect of the Bracknell test area issue raised by Second Sight. We consider that POL's explanation of the misunderstanding is convincing and that a review of all emails from 2008, even if possible, would be an unreasonable use of resources.⁹ We are confirmed in that view by the fact that in our meeting with them Second Sight accepted that the Bracknell emails were a 'red herring' and that they no longer thought it was an issue which required pursuing either. As we understand it, Second Sight took that view because they thought the focus of investigation should be around the allegations of Mr Roll, which implicitly recognise that it was Fujitsu employees with the ability to affect branch records rather than POL staff. We agree, but base our view on the work of Deloitte rather than the ambiguously reported suggestions of Mr Roll, which neither we nor POL have ever seen the detail of.

(D) Recommendations

⁹ Fujitsu have informed us that they do not have a data retention policy for emails, and that when emails are deleted they are not retrievable. In any event, we do not consider it necessary to pursue emails from 2008, be they of POL or Fujitsu employees.

149. We recommend as follows:

- (3) POL consider instructing a suitably qualified party to carry out an analysis of the relevant transaction logs for branches within the Scheme to confirm, insofar as possible, whether any bugs in the Horizon system are revealed by the dataset which caused discrepancies in the accounting position of any of those branches.
- (4) POL instruct a suitably qualified party to carry out a full review of the use of Balancing Transactions throughout the lifetime of the Horizon system, insofar as possible, to independently confirm from Horizon system records the number and circumstances of their use.
- (5) POL instruct a suitably qualified party to carry out a full review of the controls over and use of the capability of authorised Fujitsu personnel to create, amend or delete baskets within the sealed audit store throughout the lifetime of the Horizon system, insofar as possible.
- (6) POL seek specialist legal advice from external lawyers as to whether the Deloitte reports, or the information within them concerning Balancing Transactions and Fujitsu's ability to delete and amend data in the audit store, should be disclosed to defendants of criminal prosecutions brought by POL. This advice should also address whether disclosure should be made, if it has not been, to the CCRC.

VII. The Support Provided to SPMRs

150. A consistent theme of the complaints made by SPMRs is that the training they were provided was insufficient, particularly in relation to the accounting side of their role, and that the support provided to SPMRs in office through the NBSC was unhelpful or misleading. We have seen allegations that NBSC call-handlers advised SPMRs that discrepancies would 'sort themselves out' and we aware that SPMRs have alleged that NBSC advised them to submit false accounts.
151. These issues have been addressed as comprehensively as possible by both POL and Second Sight through their investigations of all the Scheme cases. Although training records were not always available, NBSC call logs were available back to around the year 2000.
152. We consider it inevitable that the ability of any investigation to definitively deal with each individual allegation would be hampered by a number of factors:
- (1) Even where training records exist, if an applicant alleges that they received less training than they should have done it will be very difficult now to establish the correct position. Individual trainers, even if still employed, are highly unlikely to remember training sessions many years ago.
 - (2) The NBSC call logs do not tend to provide the details of the call-handler's answer to any issue. They are often helpful in identifying the issue for which assistance is sought, but the answer recorded is very often simply that the SPMR was given an answer from the Knowledge

Base, but not which part of the Base or precisely what was said. Calls were not routinely recorded.

- (3) The call logs are filled in by the call-handlers. It is highly unlikely that even if a call-handler had suggested that an SPMR falsely account, the advice would have been logged.
 - (4) As with the training, even if individual call-handlers were still employed it is highly unlikely that they would be able to remember the details of any individual call.
 - (5) SPMRs have generally been unable to recall with any specificity the dates or precise content of advice they received from the NBSC or HSD. This is similarly unsurprising.
 - (6) A number of instances were alleged by SPMRs whereby their discrepancy doubled (or worse) when they followed the advice of the NBSC. The advice given by NBSC – who had no access to the branch systems – was dependent upon the caller correctly identifying the problem to the call-handler. If the problem was misunderstood, then the corrective action proposed might in fact exacerbate the problem. Working out now whether the SPMR identified the correct problem, or the NBSC gave the incorrect advice is not likely to be possible.
153. In those circumstances, we consider that the work already done by POL and Second Sight on the individual cases is generally likely to have addressed these issues in relation to applicant SPMRs insofar as it is now possible. We address the detail of that work on Scheme cases in more detail in Part VIII below.

154. During the course of our interviews with POL staff, one matter arose which we consider could be now be a strand of reasonable further investigation. Calls to the NBSC were recorded against the identity of the call-handler, and we were told that call-handlers were and are the subject of performance monitoring as we would expect. That performance monitoring, including the handling of any complaints about an individual call-handler's advice. It is therefore possible that POL could cross-reference specific complaints that the NBSC provided misleading advice (particularly advice to falsely account) against the personnel files of possible call-handlers to establish whether anything in the performance monitoring or complaints might indicate that it was more likely that a particular call-handler had provided misleading advice. We accept that it may well be the case that no further information would come to light. We accept that SPMR complaints have usually not been specific about dates or call-handlers, but we consider that a narrow focus on clear complaints (rather than general allegations that the NBSC was not helpful) would be manageable. We also understand that POL may not still have access to the relevant personnel files, because they have been destroyed or because they are in the custody of Royal Mail Group. It may be the case that no further information is discovered as a result of a combination of these factors, but we nonetheless consider that it would be reasonable for POL to conduct this relatively self-contained exercise to establish whether any further relevant information could be uncovered.

155. Accordingly, we recommend as follows.

- (7) POL cross-reference specific complaints about misleading advice from NBSC call-handlers with the possible employees who provided that advice and consider their personnel files, where available, for evidence as to the likelihood that the complaint may be well-founded.**

156. We note that Second Sight concluded in their Part Two Report that the training provided by POL was “*probably adequate*”, at least for SPMRs with reasonable levels of IT skills, numeracy and accuracy (paragraph 11.1). When read with the criticisms of the unqualified nature of some of the SPMRs appointed at paragraph 21.25, we understand this to effectively mean that the training was adequate for SPMRs who were properly qualified and appointed to be appointed to run a branch. We also note that Second Sight reiterate this finding at paragraph 12.5 when they say that the errors at the counter made by SPMRs are more likely to be the result of inadequate support than inadequate training. However, Second Sight are unable to reach any evidenced view as to the allegations about the NBSC and HSD in the light of the limited evidence now available (paragraph 12.8).
157. However, we also recognise that Second Sight do suggest that POL’s training programme required more product-specific training (paragraph 11.1), greater accounting and balancing training (paragraph 11.2) and that there was an insufficient degree of quality control to deliver effective training (paragraph 11.7).
158. We understand that POL accept that improvements to both its training and support can and should be made. We endorse that view. We are aware of the Business Support Programme established in 2013, which has made various refinements to the training programme for SPMRs, to providing express balancing support advice from the Branch Support Team and increasing the tools available to the NBSC in assisting callers, including access to branch transaction data and the recording of all calls (with a retention period yet to be determined). All of these changes are extremely positive ones.
159. We have also seen the ‘Lessons Learnt Log’ produced by Angela Van Den Bogerd (POL Director of Support Services), dated 11 November 2015, which sets some 30 pages of proposed changes to POL processes to address issues

arising from the Scheme investigations and the views of Second Sight. We do not go through that document here but, again, we consider this to have been an extremely constructive and sensible exercise.

160. With the exception of the one recommendation we have made, we consider that the training and support provided to SPMRs cannot now reasonably be the subject of further work by POL which looks at past cases. It is the area in which the greatest amount of work can be done to improve the situation in future, and it is clear to us that POL has accepted the need to do that work across all areas of the business and in detail.

VIII. Scheme Investigations

161. Those SPMRs who complained to POL via the Scheme about losses for which they had been held accountable have had their cases and complaints investigated by both POL and Second Sight. We recognise that there may be other SPMRs who feel that POL has not treated them fairly in some respect, but as any SPMR who wished to do so was entitled to apply to the Scheme with considerable attendant publicity, we consider that POL is entitled to treat only those applicants to the Scheme as raising serious or material complaints about Horizon and POL's treatment of them.
162. An applicant to the Scheme would submit a case questionnaire review setting out their grievance and what they wished to achieve from any mediation, along with any supporting evidence that they had available. In some cases, this was considerable. In many, it was minimal or limited. Many applicants took advantage of the contribution POL made towards the cost of a professional advisor.
163. POL would then investigate the details of that complaint and gather as much documentary evidence as they were able to find, reaching what conclusions they were able to on each aspect of the complaint. Depending on the age of the events in question, POL was normally able to retrieve from Fujitsu the transaction logs for the branch, any NBSC call logs and logs of calls to the HSD or to Fujitsu. In some cases, POL was able to find training records and other correspondence. POL also sought the audit records for the branch which uncovered the shortfall, and the correspondence between POL and the SPMR during the investigation and termination processes. POL produced a POIR which addressed the specifics of the grievance by reference to the evidence collected.

164. The POIRs were produced by two teams of POL investigators, made up of field support advisors, who carry out the branch training and audit work, and some security personnel (who would usually carry out internal criminal investigations). We were told that all investigators were experienced on Horizon and many were former SPMRs. They were not computer system experts, and we were told Fujitsu did not conduct their own analytical review of the relevant transaction logs.
165. This material was then passed to Second Sight, who reviewed it, might speak to the SPMR, and produced their own CRR expressing a view as to whether mediation was suitable, along with findings in relation to the complaints made by the SPMR. This work took some 18 months to complete, following the closure of the Scheme in November 2013.
166. In order to better understand the nature of the complaints made, and the work done in the POIRs and CRRs, we reviewed a sample of the documentation for the Scheme cases. There were 150 applicants to the Scheme. For the purposes of our review, we excluded from our sample any of the 37 cases in which there had been a conviction. This was on the basis that no investigation or mediation could overturn a criminal conviction. (We add that in the three criminal Scheme cases we reviewed for the purposes of Part V of this Review, two of the CQRs – in cases M103 and M149 – sought outcomes which included POL publicly apologising for its prosecution and assisting the SPMR in overturning their conviction. In case M060 the SPMR sought an express agreement from POL that she had not stolen any money.) This left some 113 non-criminal case. We considered a 10% sample was appropriate: 11 cases.
167. We reviewed the so-called thematic issues identified by Second Sight in their Part Two Report and sought, by virtue of a helpful spreadsheet of all Scheme cases produced by POL, to sample our cases for review randomly but to

ensure coverage of the full range of issues raised by Scheme applicants. We accordingly selected the following cases for review: M014, M026, M037, M058, M070, M088, M100, M114, M131, M133, and M148. Our reading focussed on the CQRs, POIRs and CRRs, but also involved some sampling of the substantive evidence collected.

168. We were impressed at the work carried out by POL. In many cases significant amounts of evidence were able to be collated. Having reviewed the CQRs, it was clear that very many of the SPMRs (for understandable reasons) were unable to give much by way of specific instances of concern, or anything other than vague and generic complaints. Most of the cases involved a shortfall at audit of between £10,000-20,000, but two cases were over £60,000 and one case involved a staggering shortfall of over £450,000. The cases we reviewed involved a mix of time periods. Some spanned both the original Horizon system and Horizon Online, some involved only one or the other. Most involved losses over approximately a two-three year period, but some involved much lengthier periods. Two cases involved losses identified in 2004 and 2005 and therefore of considerable antiquity, which posed real and understandable problems of evidential clarity, along with data retention.
169. Although the POIRs might have sometimes erred on the side of conclusions which were overly robust in rejecting the possibility of anything other than operator error, we generally found that Second Sight broadly accepted the analysis of the evidence set out in the POIR. Where it did not, it was usually because Second Sight felt unable to express a concluded view. Often this appeared justified, but we considered that on a surprising number of occasions Second Sight felt unable to choose between a bare assertion on the part of the SPMR and the indications provided in the evidence trail. In none of the cases we sampled were Second Sight willing to conclude that the shortfall was due to the Horizon computer system causing those losses, although they did speculate that the disproportionate appearance of power

failures in the CQRs was likely to contribute to some extent. In general, Second Sight accepted that the most likely cause of shortfalls was operator error on the part of SPMRs and their staff. This accords with the conclusions in the Part Two Report.

170. Both the POIRs and CRRs were often unable to identify a specific cause of losses. We do not consider this surprising. Most cases involved very little assistance from the SPMR to highlight potential causes or even time periods. Where there was assistance, the dates given often proved to be incorrect when the evidence was examined. Moreover, the integrity of the transaction records is essentially dependent upon the information inputted at the branch. It is extremely difficult for any third party – or the SPMR after the passage of time – to review those records to identify precisely what went wrong, although likely causes were identifiable in many instances. However, we were surprised at just how many of the cases involved blatant instances of false accounting, rendering POL's task of assisting the SPMR in working out where problems had arisen very much harder without an accurate reference point from which to work.
171. In only one of the Scheme cases we sampled did the Second Sight CRR suggest further investigative work might have been carried out, in case M014 for technical evidence on communications interference problems. This is good evidence in our view that POL's investigation during the course of the Scheme was detailed and thorough. It leaves very limited available 'gaps' which might now be filled by yet further work.
172. We understand that the material collated in the investigation process has been provided to the Scheme applicants. That is entirely appropriate. In the light of POL's decision to mediate all remaining Scheme cases not involving a court judgment, all cases can be approached in an evidence-based way at

mediation. We assume that POL will continue to approach the mediation process in a constructive and realistic manner.

173. There is one issue which potentially relates directly to the Scheme cases but which has not, so far as we are aware, been the subject of any specific analysis. That issue was the one raised by Second Sight in their Part Two Report between paragraphs 2.14-2.19, and relates to the handling by POL of unmatched credit balances in its own suspense account (or similarly named account) in respect of third party clients (such as Santander or Bank of Ireland). The point Second Sight raise is that where there are significant sums in unmatched balances, it is possible that at least some of that money would reflect uncorrected transaction discrepancies in particular branches. We consider that this is logically possible, and is at the least worthy of express investigation and clarification. Accordingly, we recommend that:

(8) POL commission forensic accountants to review the unmatched balances on POL's general suspense account to explain the relationship (or lack thereof) with branch discrepancies and the extent to which those balances can be attributed to and repaid to specific branches.

174. The recommendations we have made in Parts VI and VII feed into the investigation of individual cases. Having reviewed the lengthy and costly work already done by POL and Second Sight, and with the single exception set out above, we do not consider that it would be reasonable to recommend any further additional investigative recommendations be made.

IX. Summary of Recommendations

175. We make the following recommendations to the Chairman.

- (1) Legal advice be sought from counsel as to whether the decision to charge an SPMR with theft and false accounting could undermine the safety of any conviction for false accounting where (a) the conviction was on the basis of a guilty plea, following which and/or in return for which the theft charge was dropped, and (b) there had not been a sufficient evidential basis to bring the theft charge.
- (2) If such a conviction could be undermined in those circumstances, that counsel review the prosecution file in such cases to establish whether, applying the facts and law applicable at the relevant time, there was a sufficient evidential basis to conclude that a conviction for theft was a realistic prospect such that the charge was properly brought.
- (3) POL consider instructing a suitably qualified party to carry out an analysis of the relevant transaction logs for branches within the Scheme to confirm, insofar as possible, whether any bugs in the Horizon system are revealed by the dataset which caused discrepancies in the accounting position of any of those branches.
- (4) POL instruct a suitably qualified party to carry out a full review of the use of Balancing Transactions throughout the lifetime of the Horizon system, insofar as possible, to independently confirm from Horizon system records the number and circumstances of their use.
- (5) POL instruct a suitably qualified party to carry out a full review of the controls over and use of the capability of authorised Fujitsu personnel to create, amend or delete baskets within the sealed audit

store throughout the lifetime of the Horizon system, insofar as possible.

- (6) POL seek specialist legal advice from external counsel as to whether the Deloitte reports, or the information within them concerning Balancing Transactions and Fujitsu's ability to delete and amend data in the audit store, should be disclosed to defendants of criminal prosecutions brought by POL. This advice should also address whether disclosure should be made, if it has not been, to the CCRC.
- (7) POL cross-reference specific complaints about misleading advice from NBSC call-handlers with the possible employees who provided that advice and consider their personnel files, where available, for evidence as to the likelihood that the complaint may be well-founded.
- (8) POL commission forensic accountants to review the unmatched balances on POL's general suspense account to explain the relationship (or lack thereof) with branch discrepancies and the extent to which those balances can be attributed to and repaid to specific branches.

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11 January 2016

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**A REVIEW ON BEHALF
OF THE CHAIRMAN OF
POST OFFICE LIMITED**

**CONCERNING THE
STEPS TAKEN IN
RESPONSE TO VARIOUS
COMPLAINTS MADE BY
SUB-POSTMASTERS**